ANALYTICAL SUMMARY DATA PACKAGE
SDG # KIRTLAND_001

PROJECT NAME: KIRTLAND AFB 2011
PROJECT LOCATION: ALBUQUERQUE, NEW MEXICO

SUBMITTAL TO:
Pamela Moss
SHAW E&I
7604 Technology Way, Suite 300
Denver, CO 80237

SUBMITTAL BY:
Empirical Laboratories, LLC (EL)
621 Mainstream Drive, Suite 270
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Original Report Date: February 17, 2011
Report Revision #: N/A
Revision Date: N/A
Total # of Pages: 307

THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Technical Lab Director, Mr. Rick Davis, is responsible for the final data produced and reported. His signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.

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Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

Changes to the Revision
This is an original submittal of the final report package.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8260B:
The continuing calibration verifications exceeded criteria in 1B03303-CCV1 with a negative bias for Bromomethane, Chloromethane and Dichlorodifluoromethane and with a positive bias for Cis-1,2-Dichloroethene and in 1B03305-CCV1 with a positive bias for Acetone, 2-Butanone, Cis-1,2-Dichloroethene, 2,2-Dichloropropane and Methyl t-Butyl Ether and with a negative bias for Bromomethane and Chloromethane.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8015B GRO:
No anomalies or deviations are noted.

SW8015B DRO:
The retention time window for the surrogate o-Terphenyl was exceeded in samples 1101162-01, 1101181-01, -02, 1101198-01, -03 and -05. The result bias due to the R.T. shift was determined to be negligible for all affected samples.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8011 EDB:
No anomalies or deviations are noted.

SW6010B:
No anomalies or deviations are noted.

Wet Chemistry:
Samples 1101162-01, 1101182-01, -02, 1101198-01, -03 and -05 are qualified with an M for Chloride to indicate that the LOQ was raised due to interference.

The continuing calibration verification 1B03813-CCV2 exceeded criteria with a positive bias for Sulfate as SO4.

The method blank 1A26034-BLK1 and continuing calibration blanks 1B03813-CCB1, -CCB2 and –CCB3 have positive results for Chloride.

The matrix spikes associated to sample 1101181-02 exceeded criteria with a positive bias for Alkalinity, Total (as CACO3).

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Data Qualifiers
As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix. For DoD QSM 4.1 reporting purposes, this definition is also applied to the reported Detection Limit (DL).

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM 4.1 revisions as the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

LOQ: The Limit of Quantitation is the minimum level, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. This term is further clarified within the DoD QSM 4.1 as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

*****: An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL.

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL has been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the DL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:

The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "**RE"** implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity is authorized to sign this Statement of Data Authenticity.

_____
Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

Sample Receipt Information

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW001
Page 1 of 2

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 25 JAN 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182162

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification:
Non-hazard [✓] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological [ ]

Sample Disposal:
Return to Client [ ] Disposal by Lab [✓] Archive (mos.)

1. Relinquished By (Signature/Affiliation) — Date: 1-25-11 Time: 16:00
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: 1-26-11 Time: 08:45

Comments:

110162

-01

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0001	KAFB1061-GW-GW0001-REG	25 JAN 2011	12:57	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0001	KAFB1061-GW-GW0001-REG	25 JAN 2011	12:57	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0001	KAFB1061-GW-GW0001-REG	25 JAN 2011	12:57	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0001	KAFB1061-GW-GW0001-REG	25 JAN 2011	12:57	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0001	KAFB1061-GW-GW0001-REG	25 JAN 2011	12:57	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0001	KAFB1061-GW-GW0001-REG	25 JAN 2011	12:57	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		

KIRTLAND_001 Summ Package

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW001

1101162

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0001	KAFB1061-GW-GW0001-REG	25 JAN 2011	12:57	250 mL HDPE	2	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0001	KAFB1061-GW-GW0001-REG	25 JAN 2011	12:57	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0001	KAFB1061-GW-GW0001-REG	25 JAN 2011	12:57	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
-02 GW8001-TB	FIELDQC-BW-GW8001-TB-TB	25 JAN 2011	08:00	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		

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KIRTLAND_001 Summ Package

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 101162 Number of Coolers: 1 of 1

Client: Shaw E+I Project: Kirtland AFB

Date/Time Received: 1.26.11 8:45 Date cooler(s) opened: 1.26.11

Opened By (print): Russ Townsend (signature): Russ Townsend

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 2162

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 1.25.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No N/A

4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... (Yes) No N/A

5. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No N/A

6. Did you sign custody papers in the appropriate place for acceptance? ..... (Yes) No N/A

7. Was project identifiable from custody papers? ..... (Yes) No N/A

8. If required, was enough ice present in the cooler(s)? ..... (Yes) No N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 3.9 °C Correction Factor: -0.3 °C Final Value: 3.3 °C

Dates samples were logged-in: 1-26-11

9. Initial this form to acknowledge login of sample(s): (Name): [signature] (Initial): [initials]

10. Were all bottle lids intact and sealed tightly? ..... (Yes) No N/A

11. Did all bottles arrive unbroken? ..... (Yes) No N/A

12. Was all required bottle label information complete? ..... (Yes) No N/A

13. Did all bottle labels agree with custody papers? ..... (Yes) No N/A

14. Were correct containers used for the analyses indicated? ..... (Yes) No N/A

15. Were preservative levels correct in all applicable sample containers? ..... (Yes) No N/A

16. Was residual chlorine present in any applicable sample containers? ..... Yes No (N/A)

17. Was sufficient amount of sample sent for the analyses required? ..... (Yes) No N/A

18. Was headspace present in any included VOA vials? ..... Yes (No) N/A

If Non-Conformance issues were present, list by sample ID: _____

. ph<2 for all metals and ammonia samples
. ph>9 for sulfide sample.

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW002
Page 1 of 2

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Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 26 JAN 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182195

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification: Radiological ☐
Non-hazard ☑ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By (Signature/Affiliation)	Date: 1-26-11 Time: 1600	1. Received By (Signature/Affiliation)	Date: Time:
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation) 2.5°C	Date: 1-27-11 Time: 08:45

Comments:

110181

-04

Sample No	Sample Name	Sample Date	Sample Time	Container	Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0017	KAFB10616-WG-GW0017-REG	26 JAN 2011	13:25	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0017	KAFB10616-WG-GW0017-REG	26 JAN 2011	13:25	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0017	KAFB10616-WG-GW0017-REG	26 JAN 2011	13:25	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0017	KAFB10616-WG-GW0017-REG	26 JAN 2011	13:25	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0017	KAFB10616-WG-GW0017-REG	26 JAN 2011	13:25	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0017	KAFB10616-WG-GW0017-REG	26 JAN 2011	13:25	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		

KIRTLAND_001 Summ Package

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW002

1101181

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0017	KAFB10616-WG-GW0017-REG	26 JAN 2011	13:25	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0017	KAFB10616-WG-GW0017-REG	26 JAN 2011	13:25	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0017	KAFB10616-WG-GW0017-REG	26 JAN 2011	13:25	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
GW0032	KAFB3411-WG-GW0032-REG	26 JAN 2011	11:29	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0032	KAFB3411-WG-GW0032-REG	26 JAN 2011	11:29	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0032	KAFB3411-WG-GW0032-REG	26 JAN 2011	11:29	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0032	KAFB3411-WG-GW0032-REG	26 JAN 2011	11:29	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0032	KAFB3411-WG-GW0032-REG	26 JAN 2011	11:29	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0032	KAFB3411-WG-GW0032-REG	26 JAN 2011	11:29	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0032	KAFB3411-WG-GW0032-REG	26 JAN 2011	11:29	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0032	KAFB3411-WG-GW0032-REG	26 JAN 2011	11:29	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0032	KAFB3411-WG-GW0032-REG	26 JAN 2011	11:29	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
GW8002-TB	FIELDQC-BW-GW8002-TB-TB	26 JAN 2011	08:00	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		

mgl 1-26-11

KIRTLAND_001 Summ Package

BENNETT PUMP RE-INSTALL, JANUARY 2011

MONITORING WELL ID	LNAPL	VAPOR SAMPLED	INNER CASING STICK UP FEET	TOP OF SCREEN FEET BELOW TOC	WATER LEVEL (MAY 2010) FEET BELOW TOC		SCREEN ABOVE WATER LEVEL (MAY 2010) FEET	c	AS-BUILT WELL BOTTOM FEET BELOW TOC	BOTTOM OF SCREEN FEET BELOW TOC
KAFB-1061	No	Yes	2.43	485.43	488.77		3.34		510.93	510.43
KAFB-1062	No	Yes	2.13	481.13	486.44		5.31		507.13	506.13
KAFB-1063	No	Yes	2.15	478.15	484.05		5.90		505.15	503.15
KAFB-1064	No	Yes	2.44	486.44	490.54		4.10		512.44	511.44
KAFB-1067	No	Yes	5.20	489.20	493.41		4.21		516.20	514.20
KAFB-10611	No	Yes	2.99	488.99	498.16		9.17		518.99	513.99
KAFB-10612	No	Yes	3.07	483.57	490.07		6.50		513.57	508.57
KAFB-10615	No	Yes	2.70	482.70	490.22		7.52		517.70	507.70
KAFB-10616	No	Yes	3.21	478.21	487.50	a	9.29		508.21	503.21
KAFB-03411	No	Yes	2.99	484.99	487.47		2.48		505.99	509.99

a = Water level measurement from Jan-March 2010 quarterly report, CH2M-Hill unable to obtain water level in May
TOC = TOP OF (inner) CASING, OR MEASUREMENT POINT

ALL DROP TUBES TO BE INSTALLED TO NEAR BOTTOM OF SCREEN.
DROP TUBES TO BE PERFORATED BELOW WATER LEVEL, AT INTERFACE, AND ABOVE WATER LEVEL TO ALLOW LNAPL AND VAPOR INTO TUBE

KIRTLAND_001 Summ Package

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 401181 Number of Coolers: 1 of 1

Client: SHAW E+I INC. Project: Kirtland AFB

Date/Time Received: 1·26·11 08:45 Date cooler(s) opened: 1·26·11

Opened By (print): Russ Townsend (signature): Russ Townsend

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 2195

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 1·25·11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 3.2 °C Correction Factor: -0.3 °C Final Value: 2.9 °C

Dates samples were logged-in: 1-27-11

9. Initial this form to acknowledge login of sample(s): (Name): Chris Pond (Initial): CP

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	(Yes)	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	(N/A)
17. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
18. Was headspace present in any included VOA vials?	Yes	(No)	N/A

If Non-Conformance issues were present, list by sample ID: _____

- ph <2 for all ammonia samples
- ph >9 for w/p sulfides

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW003
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Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 27 JAN 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182184

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification:
Non-hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological [ ]

Sample Disposal:
Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Relinquished By (Signature/Affiliation) Mark Lyon Shaw Environmental Date: 1/27/2011 Time: 1730
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) 3.0°C Date: 1-28-11 Time: 08:30

Comments:

110198

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0002	KAFB1062-WG-GW0002-REG	27 JAN 2011	14:45	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0002	KAFB1062-WG-GW0002-REG	27 JAN 2011	14:45	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0002	KAFB1062-WG-GW0002-REG	27 JAN 2011	14:45	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0002	KAFB1062-WG-GW0002-REG	27 JAN 2011	14:45	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0002	KAFB1062-WG-GW0002-REG	27 JAN 2011	14:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0002	KAFB1062-WG-GW0002-REG	27 JAN 2011	14:45	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0002	KAFB1062-WG-GW0002-REG	27 JAN 2011	14:45	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		

-01 -02 -01

mlt 1/27/11

KIRTLAND_001 Summ Package

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW003

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0002	KAFB1062-WG-GW0002-REG	27 JAN 2011	14:45	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
-02	GW0002	KAFB1062-WG-GW0002-REG	27 JAN 2011	14:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-01	GW0002	KAFB1062-WG-GW0002-REG	27 JAN 2011	14:45	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-03	GW0003	KAFB1063-WG-GW0003-REG	27 JAN 2011	12:56	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0003	KAFB1063-WG-GW0003-REG	27 JAN 2011	12:56	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0003	KAFB1063-WG-GW0003-REG	27 JAN 2011	12:56	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0003	KAFB1063-WG-GW0003-REG	27 JAN 2011	12:56	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0003	KAFB1063-WG-GW0003-REG	27 JAN 2011	12:56	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0003	KAFB1063-WG-GW0003-REG	27 JAN 2011	12:56	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0003	KAFB1063-WG-GW0003-REG	27 JAN 2011	12:56	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
-04	GW0003	KAFB1063-WG-GW0003-REG	27 JAN 2011	12:56	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0003	KAFB1063-WG-GW0003-REG	27 JAN 2011	12:56	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-03	GW0003	KAFB1063-WG-GW0003-REG	27 JAN 2011	12:56	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-05	GW0004	KAFB1064-WG-GW0004-REG	27 JAN 2011	10:10	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0004	KAFB1064-WG-GW0004-REG	27 JAN 2011	10:10	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0004	KAFB1064-WG-GW0004-REG	27 JAN 2011	10:10	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0004	KAFB1064-WG-GW0004-REG	27 JAN 2011	10:10	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0004	KAFB1064-WG-GW0004-REG	27 JAN 2011	10:10	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-06	GW0004	KAFB1064-WG-GW0004-REG	27 JAN 2011	10:10	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0004	KAFB1064-WG-GW0004-REG	27 JAN 2011	10:10	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-05	GW0004	KAFB1064-WG-GW0004-REG	27 JAN 2011	10:10	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0004	KAFB1064-WG-GW0004-REG	27 JAN 2011	10:10	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0004	KAFB1064-WG-GW0004-REG	27 JAN 2011	10:10	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
-07	GW8003-TB	FIELDQC-BW-GW8003-TB-TB	27 JAN 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

mel 1/27/11

17

KIRTLAND_001 Summ Package

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 110198 Number of Coolers: 1 of 1

Client: SHAW E&I Inc. Project: Kirtland AFB

Date/Time Received: 1.28.11 08:30 Date cooler(s) opened: 1.28.11

Opened By (print): Russ Townsend (signature): Russ Townsend

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 9324

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 1.27.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 3.3 °C Correction Factor: -0.3 °C Final Value: 3.0 °C

Dates samples were logged-in: 1-28-11

9. Initial this form to acknowledge login of sample(s): (Name): [signature] (Initial): CP

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	(Yes)	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	(N/A)
17. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
18. Was headspace present in any included VOA vials?	Yes	(No)	N/A

If Non-Conformance issues were present, list by sample ID: _____

- ph <2 for all metals & ammonia, DRO samples
- ph >9 for all Sulfide samples.

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FedEx® US Airbill Express

FedEx Tracking Number **8741 5464 9324**

Form ID No. **0200**

FedEx Retrieval Copy

1 From

Date 1-27-11 Sender's FedEx Account Number

Sender's Name Mark Lyon Phone 505 917 0645

Company Shaw Environmental

Address 5202 Randolph Ave SE, So. Randolph Bldg Fuel Dept/Floor/Suite/Room

City Kirtland AFB State NM ZIP 87117

2 Your Internal Billing Reference

3 To

Recipient's Name Kim Kostzer Phone 615 345-1115

Company Emphirical Laboratories

Address 621 Mainstream Drive Dept/Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address Use this line for the HOLD location address or for continuation of your shipping address.

City Nashville State TN ZIP 37228

HOLD Weekday 01 ☐ FedEx location address REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday 31 ☐ FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

4a Express Package Service * To most locations. *Packages up to 150 lbs.*

01 ☐ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

09 ☒ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

06 ☐ FedEx First Overnight — Earliest next business morning delivery to select locations.*

03 ☐ FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

4b Express Freight Service ** To most locations. *Packages over 150 lbs.*

70 ☐ FedEx 1Day Freight — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. FedEx 1Day Freight Booking No.

80 ☐ FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

83 ☐ FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

06 ☐ FedEx Envelope* 02 ☐ FedEx Pak* Includes FedEx Small Pak and FedEx Large Pak. 03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☒ Other

6 Special Handling and Delivery Signature Options

03 ☐ **SATURDAY DELIVERY**

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

10 ☐ Direct Signature — Someone at recipient's address may sign for delivery. Fee applies.

34 ☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Fee applies.

Does this shipment contain dangerous goods? One box must be checked.

☒ No 04 ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. 06 ☐ Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box. ☐ Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

1 ☐ Sender Acct. No. in Section 1 will be billed. 2 ☒ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

[redacted]

Total Packages 1 Total Weight 60 lbs. Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

606

8741 5464 9324

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WORK ORDER

1101162

Printed: 2/17/2011 1:31:18PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 02/18/2011 16:00 (17 day TAT)

Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 01/26/2011 08:45
Date Logged In 01/26/2011 13:01

Samples Received at: **3.3°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

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KIRTLAND_001 Summ Package

WORK ORDER

1101162

Printed: 2/17/2011 1:31:18PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1101162-01 GW0001 [Water] Sampled 01/25/2011 12:57 Central					
SM4500S2CF	02/14/2011 14:00	15	02/01/2011 12:57		
E300.0	02/14/2011 14:00	15	01/27/2011 12:57		NITRATE
E300.0	02/14/2011 14:00	15	02/22/2011 12:57		CHLORIDE, SULFATE
SM4500NH3BG	02/14/2011 14:00	15	02/22/2011 12:57		
SM2320B	02/14/2011 14:00	15	02/08/2011 12:57		
SW8260B	02/14/2011 14:00	15	02/08/2011 12:57		
SW8015B	02/14/2011 14:00	15	02/08/2011 12:57		
SW8011	02/14/2011 14:00	15	02/08/2011 12:57		
SW8015B	02/14/2011 14:00	15	02/01/2011 12:57		
SW6010B	02/14/2011 14:00	15	07/24/2011 12:57		Ca, Pb, K, Na, Mg
1101162-02 GW8001-TB [Water] Sampled 01/25/2011 08:00 Central					
SW8260B	02/14/2011 14:00	15	02/08/2011 08:00		
1101162-03 GW001 [Water] Sampled 01/25/2011 12:57 Central					
SW6010B	02/14/2011 14:00	15	07/24/2011 12:57		Fe & Mn

WORK ORDER

1101181

Printed: 2/17/2011 1:31:45PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 02/18/2011 16:00 (16 day TAT)

Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 01/27/2011 08:45
Date Logged In 01/27/2011 15:25

Samples Received at: **2.9°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1101181

Printed: 2/17/2011 1:31:45PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1101181-01 GW0017 [Water] Sampled 01/26/2011 13:25 Central					
SW8015B	02/14/2011 14:00	15	02/02/2011 13:25		
SW8011	02/14/2011 14:00	15	02/09/2011 13:25		
SW8015B	02/14/2011 14:00	15	02/09/2011 13:25		
SW8260B	02/14/2011 14:00	15	02/09/2011 13:25		
SM2320B	02/14/2011 14:00	15	02/09/2011 13:25		
SM4500NH3BG	02/14/2011 14:00	15	02/23/2011 13:25		
E300.0	02/14/2011 14:00	15	02/23/2011 13:25		Chloride, Sulfate
E300.0	02/14/2011 14:00	15	01/28/2011 13:25		Nitrate
SM4500S2CF	02/14/2011 14:00	15	02/02/2011 13:25		
SW6010B	02/14/2011 14:00	15	07/25/2011 13:25		Ca, Pb, K, Na, Mg
1101181-02 GW0032 [Water] Sampled 01/26/2011 11:29 Central					
SW8011	02/14/2011 14:00	15	02/09/2011 11:29		
SW8015B	02/14/2011 14:00	15	02/02/2011 11:29		
SW8015B	02/14/2011 14:00	15	02/09/2011 11:29		
SW8260B	02/14/2011 14:00	15	02/09/2011 11:29		
SM2320B	02/14/2011 14:00	15	02/09/2011 11:29		
SM4500NH3BG	02/14/2011 14:00	15	02/23/2011 11:29		
E300.0	02/14/2011 14:00	15	02/23/2011 11:29		Chloride, Sulfate
E300.0	02/14/2011 14:00	15	01/28/2011 11:29		Nitrate
SM4500S2CF	02/14/2011 14:00	15	02/02/2011 11:29		
SW6010B	02/14/2011 14:00	15	07/25/2011 11:29		Ca, Pb, K, Na, Mg
1101181-03 GW8002-TB [Water] Sampled 01/26/2011 08:00 Central					
SW8260B	02/14/2011 14:00	15	02/09/2011 08:00		

WORK ORDER

1101181

Printed: 2/17/2011 1:31:45PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1101181-04 GW0017 [Water] Sampled 01/26/2011 13:25 Central					
SW6010B	02/14/2011 14:00	15	07/25/2011 13:25		Fe & Mn
1101181-05 GW0032 [Water] Sampled 01/26/2011 11:29 Central					
SW6010B	02/14/2011 14:00	15	07/25/2011 11:29		Fe & Mn

WORK ORDER

1101198

Printed: 2/17/2011 1:32:14PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 02/18/2011 16:00 (15 day TAT)

Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 01/28/2011 08:30
Date Logged In 01/28/2011 11:04

Samples Received at: **3°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1101198-01 GW0002 [Water] Sampled 01/27/2011 14:45 Central					
SM2320B	02/15/2011 14:00	15	02/10/2011 14:45		
SW8260B	02/15/2011 14:00	15	02/10/2011 14:45		
SW8015B	02/15/2011 14:00	15	02/10/2011 14:45		
SW8011	02/15/2011 14:00	15	02/10/2011 14:45		
SW8015B	02/15/2011 14:00	15	02/03/2011 14:45		
E300.0	02/15/2011 14:00	15	02/24/2011 14:45		CHLORIDE, SULFATE
E300.0	02/15/2011 14:00	15	01/29/2011 14:45		NITRATE
SM4500S2CF	02/15/2011 14:00	15	02/03/2011 14:45		
SW6010B	02/15/2011 14:00	15	07/26/2011 14:45		Ca, Pb, K, Na, Mg
SM4500NH3BG	02/15/2011 14:00	15	02/24/2011 14:45		
1101198-02 GW0002 [Water] Sampled 01/27/2011 14:45 Central					
SW6010B	02/15/2011 14:00	15	07/26/2011 14:45		Fe & Mn
1101198-03 GW0003 [Water] Sampled 01/27/2011 12:56 Central					
E300.0	02/15/2011 14:00	15	01/29/2011 12:56		NITRATE
SM4500NH3BG	02/15/2011 14:00	15	02/24/2011 12:56		
SM2320B	02/15/2011 14:00	15	02/10/2011 12:56		
SW8260B	02/15/2011 14:00	15	02/10/2011 12:56		
SW8015B	02/15/2011 14:00	15	02/10/2011 12:56		
SW8011	02/15/2011 14:00	15	02/10/2011 12:56		
E300.0	02/15/2011 14:00	15	02/24/2011 12:56		CHLORIDE, SULFATE
SW6010B	02/15/2011 14:00	15	07/26/2011 12:56		Ca, Pb, K, Na, Mg
SM4500S2CF	02/15/2011 14:00	15	02/03/2011 12:56		
SW8015B	02/15/2011 14:00	15	02/03/2011 12:56		

WORK ORDER

1101198

Printed: 2/17/2011 1:32:14PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1101198-04 GW0003 [Water] Sampled 01/27/2011 12:56 Central					
SW6010B	02/15/2011 14:00	15	07/26/2011 12:56		Fe & Mn
1101198-05 GW0004 [Water] Sampled 01/27/2011 10:10 Central					
SW8015B	02/15/2011 14:00	15	02/03/2011 10:10		
SW8011	02/15/2011 14:00	15	02/10/2011 10:10		
SW8015B	02/15/2011 14:00	15	02/10/2011 10:10		
SW8260B	02/15/2011 14:00	15	02/10/2011 10:10		
SM2320B	02/15/2011 14:00	15	02/10/2011 10:10		
SM4500NH3BG	02/15/2011 14:00	15	02/24/2011 10:10		
E300.0	02/15/2011 14:00	15	02/24/2011 10:10		CHLORIDE, SULFATE
E300.0	02/15/2011 14:00	15	01/29/2011 10:10		NITRATE
SM4500S2CF	02/15/2011 14:00	15	02/03/2011 10:10		
SW6010B	02/15/2011 14:00	15	07/26/2011 10:10		Ca, Pb, K, Na, Mg
1101198-06 GW0004 [Water] Sampled 01/27/2011 10:10 Central					
SW6010B	02/15/2011 14:00	15	07/26/2011 10:10		Fe & Mn
1101198-07 GW8003-TB [Water] Sampled 01/27/2011 08:00 Central					
SW8260B	02/15/2011 14:00	15	02/10/2011 08:00		

Sample Delivery Group Assignment Form

CLIENT: Shaw E & I (I700)
PROJECT NAME: Kirtland AFB 2011
SDG #: kirtland_001
MATRIX: Water

QC LEVEL: EDD/IVQSM
Report Due: 2/18/2011
Client Sample Count: 12

Sample Type	Sampled	Received	Lab ID	Client ID	E300.0	SM2320B	SM4500NH3BG	SM4500S2CF	SW6010B	SW8011	SW8015B	SW8260B
Client Sample	1/25/2011	1/26/2011	1101162-01	GW0001	X	X	X	X	X	X	X	X
Trip Blank	1/25/2011	1/26/2011	1101162-02	GW8001-TB								X
Client Sample	1/25/2011	1/26/2011	1101162-03	GWOO1-DISS METALS					X			
Client Sample	1/26/2011	1/27/2011	1101181-01	GW0017	X	X	X	X	X	X	X	X
Client Sample	1/26/2011	1/27/2011	1101181-02	GW0032	X	X	X	X	X	X	X	X
Trip Blank	1/26/2011	1/27/2011	1101181-03	GW8002-TB								X
Client Sample	1/26/2011	1/27/2011	1101181-04	GW0017					X			
Client Sample	1/26/2011	1/27/2011	1101181-05	GW0032					X			
Client Sample	1/27/2011	1/28/2011	1101198-01	GW0002	X	X	X	X	X	X	X	X
Client Sample	1/27/2011	1/28/2011	1101198-02	GW0002					X			
Client Sample	1/27/2011	1/28/2011	1101198-03	GW0003	X	X	X	X	X	X	X	X
Client Sample	1/27/2011	1/28/2011	1101198-04	GW0003					X			
Client Sample	1/27/2011	1/28/2011	1101198-05	GW0004	X	X	X	X	X	X	X	X
Client Sample	1/27/2011	1/28/2011	1101198-06	GW0004					X			
Trip Blank	1/27/2011	1/28/2011	1101198-07	GW8003-TB								X

Data for SW8260B Forms

ANALYSIS DATA SHEET

GW0001

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1101162-01 File ID: 0116201.D

Sampled: 01/25/11 12:57 Prepared: 02/01/11 00:00 Analyzed: 02/01/11 15:43

Solids: Preparation: 5030B Dilution: 1

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene	1.06	0.250	0.500	1.00	
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	X, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0001

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1101162-01 File ID: 0116201.D

Sampled: 01/25/11 12:57 Prepared: 02/01/11 00:00 Analyzed: 02/01/11 15:43

Solids: Preparation: 5030B Dilution: 1

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene	0.963	0.250	0.500	1.00	J
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	X, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	0.846	0.250	0.500	1.00	J
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	34.89	116	75 - 120	
Dibromofluoromethane	30.00	29.95	99.8	85 - 115	
1,2-Dichloroethane-d4	30.00	32.31	108	70 - 120	
Toluene-d8	30.00	29.41	98.0	85 - 120	

ANALYSIS DATA SHEET

GW8001-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1101162-02 File ID: 0116202.D

Sampled: 01/25/11 08:00 Prepared: 02/01/11 00:00 Analyzed: 02/01/11 13:14

Solids: Preparation: 5030B Dilution: 1

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	X, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8001-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1101162-02 File ID: 0116202.D

Sampled: 01/25/11 08:00 Prepared: 02/01/11 00:00 Analyzed: 02/01/11 13:14

Solids: Preparation: 5030B Dilution: 1

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene	0.701	0.250	0.500	1.00	J
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	X, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	33.85	113	75 - 120	
Dibromofluoromethane	30.00	30.24	101	85 - 115	
1,2-Dichloroethane-d4	30.00	31.37	105	70 - 120	
Toluene-d8	30.00	28.86	96.2	85 - 120	

ANALYSIS DATA SHEET

GW0017

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1101181-01 File ID: 0118101.D

Sampled: 01/26/11 13:25 Prepared: 02/01/11 00:00 Analyzed: 02/01/11 16:12

Solids: Preparation: 5030B Dilution: 1

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	X, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0017

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1101181-01 File ID: 0118101.D

Sampled: 01/26/11 13:25 Prepared: 02/01/11 00:00 Analyzed: 02/01/11 16:12

Solids: Preparation: 5030B Dilution: 1

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene	0.703	0.250	0.500	1.00	J
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	X, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	34.26	114	75 - 120	
Dibromofluoromethane	30.00	30.73	102	85 - 115	
1,2-Dichloroethane-d4	30.00	32.86	110	70 - 120	
Toluene-d8	30.00	29.60	98.7	85 - 120	

ANALYSIS DATA SHEET

GW0032

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1101181-02 File ID: 0118102.D

Sampled: 01/26/11 11:29 Prepared: 02/01/11 00:00 Analyzed: 02/01/11 16:42

Solids: Preparation: 5030B Dilution: 1

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	X, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0032

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1101181-02 File ID: 0118102.D

Sampled: 01/26/11 11:29 Prepared: 02/01/11 00:00 Analyzed: 02/01/11 16:42

Solids: Preparation: 5030B Dilution: 1

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene	1.14	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	X, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	35.60	119	75 - 120	
Dibromofluoromethane	30.00	29.86	99.5	85 - 115	
1,2-Dichloroethane-d4	30.00	30.84	103	70 - 120	
Toluene-d8	30.00	28.71	95.7	85 - 120	

ANALYSIS DATA SHEET

GW8002-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1101181-03 File ID: 0118103.D

Sampled: 01/26/11 08:00 Prepared: 02/01/11 00:00 Analyzed: 02/01/11 14:14

Solids: Preparation: 5030B Dilution: 1

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	X, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8002-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1101181-03 File ID: 0118103.D

Sampled: 01/26/11 08:00 Prepared: 02/01/11 00:00 Analyzed: 02/01/11 14:14

Solids: Preparation: 5030B Dilution: 1

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene	0.706	0.250	0.500	1.00	J
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	X, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	34.62	115	75 - 120	
Dibromofluoromethane	30.00	29.42	98.1	85 - 115	
1,2-Dichloroethane-d4	30.00	30.89	103	70 - 120	
Toluene-d8	30.00	28.99	96.6	85 - 120	

ANALYSIS DATA SHEET

GW0002

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Waste Water Laboratory ID: 1101198-01 File ID: 0119801.D

Sampled: 01/27/11 14:45 Prepared: 02/01/11 14:32 Analyzed: 02/02/11 07:54

Solids: Preparation: 5030B Dilution: 1

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Y, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0002

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Waste Water Laboratory ID: 1101198-01 File ID: 0119801.D

Sampled: 01/27/11 14:45 Prepared: 02/01/11 14:32 Analyzed: 02/02/11 07:54

Solids: Preparation: 5030B Dilution: 1

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	34.17	114	75 - 120	
Dibromofluoromethane	30.00	30.94	103	85 - 115	
1,2-Dichloroethane-d4	30.00	31.08	104	70 - 120	
Toluene-d8	30.00	28.24	94.1	85 - 120	

ANALYSIS DATA SHEET

GW0003

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Waste Water Laboratory ID: 1101198-03 File ID: 0119803.D

Sampled: 01/27/11 12:56 Prepared: 02/01/11 14:32 Analyzed: 02/02/11 08:23

Solids: Preparation: 5030B Dilution: 1

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Y, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0003

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Waste Water Laboratory ID: 1101198-03 File ID: 0119803.D

Sampled: 01/27/11 12:56 Prepared: 02/01/11 14:32 Analyzed: 02/02/11 08:23

Solids: Preparation: 5030B Dilution: 1

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	33.33	111	75 - 120	
Dibromofluoromethane	30.00	30.47	102	85 - 115	
1,2-Dichloroethane-d4	30.00	31.71	106	70 - 120	
Toluene-d8	30.00	29.62	98.7	85 - 120	

ANALYSIS DATA SHEET

GW0004

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Waste Water Laboratory ID: 1101198-05 File ID: 0119805.D

Sampled: 01/27/11 10:10 Prepared: 02/01/11 14:32 Analyzed: 02/02/11 08:53

Solids: Preparation: 5030B Dilution: 1

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Y, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0004

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Waste Water Laboratory ID: 1101198-05 File ID: 0119805.D

Sampled: 01/27/11 10:10 Prepared: 02/01/11 14:32 Analyzed: 02/02/11 08:53

Solids: Preparation: 5030B Dilution: 1

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene	0.469	0.250	0.500	1.00	J
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.99	110	75 - 120	
Dibromofluoromethane	30.00	30.69	102	85 - 115	
1,2-Dichloroethane-d4	30.00	31.94	106	70 - 120	
Toluene-d8	30.00	29.10	97.0	85 - 120	

ANALYSIS DATA SHEET

GW8003-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1101198-07 File ID: 0119807.D

Sampled: 01/27/11 08:00 Prepared: 02/01/11 14:32 Analyzed: 02/02/11 05:55

Solids: Preparation: 5030B Dilution: 1

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Y, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8003-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1101198-07 File ID: 0119807.D

Sampled: 01/27/11 08:00 Prepared: 02/01/11 14:32 Analyzed: 02/02/11 05:55

Solids: Preparation: 5030B Dilution: 1

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	33.71	112	75 - 120	
Dibromofluoromethane	30.00	30.30	101	85 - 115	
1,2-Dichloroethane-d4	30.00	31.90	106	70 - 120	
Toluene-d8	30.00	30.33	101	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B03303
Instrument: MS-VOA4
Calibration: 0288001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B03303-CCV1) ug/L				Lab File ID: 0201CC1E.D		Analyzed: 02/01/11 22:38		
Bromofluorobenzene	30.00	113	80 - 120	16.468	16.468	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	80 - 120	8.894	8.894	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	108	80 - 120	10.127	10.127	0.0000	+/-1.000	
Toluene-d8	30.00	96.4	80 - 120	14.15	14.15	0.0000	+/-1.000	
LCS (1B01012-BS1) ug/L				Lab File ID: 0201LS1E.D		Analyzed: 02/01/11 23:07		
Bromofluorobenzene	30.00	113	75 - 120	16.469	16.468	0.0010	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	8.886	8.894	-0.0080	+/-1.000	
1,2-Dichloroethane-d4	30.00	107	70 - 120	10.138	10.127	0.0110	+/-1.000	
Toluene-d8	30.00	103	85 - 120	14.142	14.15	-0.0080	+/-1.000	
Blank (1B01012-BLK1) ug/L				Lab File ID: 0201BL1E.D		Analyzed: 02/02/11 00:34		
Bromofluorobenzene	30.00	117	75 - 120	16.472	16.468	0.0040	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	8.908	8.894	0.0140	+/-1.000	
1,2-Dichloroethane-d4	30.00	111	70 - 120	10.151	10.127	0.0240	+/-1.000	
Toluene-d8	30.00	96.0	85 - 120	14.145	14.15	-0.0050	+/-1.000	
GW8003-TB (1101198-07) ug/L				Lab File ID: 0119807.D		Analyzed: 02/02/11 05:55		
Bromofluorobenzene	30.00	112	75 - 120	16.457	16.468	-0.0110	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	8.864	8.894	-0.0300	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	10.107	10.127	-0.0200	+/-1.000	
Toluene-d8	30.00	101	85 - 120	14.13	14.15	-0.0200	+/-1.000	
GW0002 (1101198-01) ug/L				Lab File ID: 0119801.D		Analyzed: 02/02/11 07:54		
Bromofluorobenzene	30.00	114	75 - 120	16.456	16.468	-0.0120	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	8.833	8.894	-0.0610	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	10.076	10.127	-0.0510	+/-1.000	
Toluene-d8	30.00	94.1	85 - 120	14.129	14.15	-0.0210	+/-1.000	
GW0003 (1101198-03) ug/L				Lab File ID: 0119803.D		Analyzed: 02/02/11 08:23		
Bromofluorobenzene	30.00	111	75 - 120	16.456	16.468	-0.0120	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	8.903	8.894	0.0090	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	10.135	10.127	0.0080	+/-1.000	
Toluene-d8	30.00	98.7	85 - 120	14.139	14.15	-0.0110	+/-1.000	
GW0004 (1101198-05) ug/L				Lab File ID: 0119805.D		Analyzed: 02/02/11 08:53		
Bromofluorobenzene	30.00	110	75 - 120	16.453	16.468	-0.0150	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	8.83	8.894	-0.0640	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	10.062	10.127	-0.0650	+/-1.000	
Toluene-d8	30.00	97.0	85 - 120	14.115	14.15	-0.0350	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B03303
Instrument: MS-VOA4
Calibration: 0288001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
LCS Dup (1B01012-BSD1) ug/L				Lab File ID: 0201LD1E.D		Analyzed: 02/02/11 09:23		
Bromofluorobenzene	30.00	113	75 - 120	16.452	16.468	-0.0160	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	8.82	8.894	-0.0740	+/-1.000	
1,2-Dichloroethane-d4	30.00	111	70 - 120	10.052	10.127	-0.0750	+/-1.000	
Toluene-d8	30.00	96.6	85 - 120	14.125	14.15	-0.0250	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B03305
Instrument: MS-VOA4
Calibration: 0288001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B03305-CCV1) ug/L				Lab File ID: 0201CC1.D		Analyzed: 02/01/11 10:45		
Bromofluorobenzene	30.00	117	80 - 120	16.465	16.465	0.0000	+/-1.000	
Dibromofluoromethane	30.00	105	80 - 120	8.892	8.892	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	108	80 - 120	10.134	10.134	0.0000	+/-1.000	
Toluene-d8	30.00	102	80 - 120	14.148	14.148	0.0000	+/-1.000	
LCS (1B01007-BS1) ug/L				Lab File ID: 0201LS1.D		Analyzed: 02/01/11 11:14		
Bromofluorobenzene	30.00	115	75 - 120	16.466	16.465	0.0010	+/-1.000	
Dibromofluoromethane	30.00	99.7	85 - 115	8.872	8.892	-0.0200	+/-1.000	
1,2-Dichloroethane-d4	30.00	109	70 - 120	10.115	10.134	-0.0190	+/-1.000	
Toluene-d8	30.00	101	85 - 120	14.138	14.148	-0.0100	+/-1.000	
Blank (1B01007-BLK1) ug/L				Lab File ID: 0201BL1.D		Analyzed: 02/01/11 12:44		
Bromofluorobenzene	30.00	118	75 - 120	16.475	16.465	0.0100	+/-1.000	
Dibromofluoromethane	30.00	97.3	85 - 115	8.931	8.892	0.0390	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	70 - 120	10.174	10.134	0.0400	+/-1.000	
Toluene-d8	30.00	97.4	85 - 120	14.158	14.148	0.0100	+/-1.000	
GW8001-TB (1101162-02) ug/L				Lab File ID: 0116202.D		Analyzed: 02/01/11 13:14		
Bromofluorobenzene	30.00	113	75 - 120	16.471	16.465	0.0060	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	8.887	8.892	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	10.12	10.134	-0.0140	+/-1.000	
Toluene-d8	30.00	96.2	85 - 120	14.143	14.148	-0.0050	+/-1.000	
GW8002-TB (1101181-03) ug/L				Lab File ID: 0118103.D		Analyzed: 02/01/11 14:14		
Bromofluorobenzene	30.00	115	75 - 120	16.476	16.465	0.0110	+/-1.000	
Dibromofluoromethane	30.00	98.1	85 - 115	8.893	8.892	0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	10.135	10.134	0.0010	+/-1.000	
Toluene-d8	30.00	96.6	85 - 120	14.149	14.148	0.0010	+/-1.000	
GW0001 (1101162-01) ug/L				Lab File ID: 0116201.D		Analyzed: 02/01/11 15:43		
Bromofluorobenzene	30.00	116	75 - 120	16.481	16.465	0.0160	+/-1.000	
Dibromofluoromethane	30.00	99.8	85 - 115	8.908	8.892	0.0160	+/-1.000	
1,2-Dichloroethane-d4	30.00	108	70 - 120	10.16	10.134	0.0260	+/-1.000	
Toluene-d8	30.00	98.0	85 - 120	14.154	14.148	0.0060	+/-1.000	
GW0017 (1101181-01) ug/L				Lab File ID: 0118101.D		Analyzed: 02/01/11 16:12		
Bromofluorobenzene	30.00	114	75 - 120	16.481	16.465	0.0160	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	8.897	8.892	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	110	70 - 120	10.14	10.134	0.0060	+/-1.000	
Toluene-d8	30.00	98.7	85 - 120	14.153	14.148	0.0050	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B03305
Instrument: MS-VOA4
Calibration: 0288001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0032 (1101181-02) ug/L				Lab File ID: 0118102.D		Analyzed: 02/01/11 16:42		
Bromofluorobenzene	30.00	119	75 - 120	16.476	16.465	0.0110	+/-1.000	
Dibromofluoromethane	30.00	99.5	85 - 115	8.932	8.892	0.0400	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	10.175	10.134	0.0410	+/-1.000	
Toluene-d8	30.00	95.7	85 - 120	14.158	14.148	0.0100	+/-1.000	
LCS Dup (1B01007-BSD1) ug/L				Lab File ID: 0201LSD1.D		Analyzed: 02/01/11 21:39		
Bromofluorobenzene	30.00	116	75 - 120	16.472	16.465	0.0070	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	8.889	8.892	-0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	10.142	10.134	0.0080	+/-1.000	
Toluene-d8	30.00	102	85 - 120	14.145	14.148	-0.0030	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B01007
Laboratory ID: 1B01007-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	94.3	94.3	40 - 140
Benzene	50.00	55.5	111	80 - 120
Bromobenzene	50.00	50.6	101	75 - 125
Bromochloromethane	50.00	52.4	105	65 - 130
Bromodichloromethane	50.00	56.6	113	75 - 120
Bromoform	50.00	61.8	124	70 - 130
Bromomethane	50.00	25.5	51.0	30 - 145
n-Butylbenzene	50.00	45.2	90.4	70 - 135
2-Butanone	100.0	110	110	30 - 150
sec-Butylbenzene	50.00	44.2	88.3	70 - 125
tert-Butylbenzene	50.00	46.0	92.1	70 - 130
Carbon disulfide	50.00	50.7	101	35 - 160
Carbon tetrachloride	50.00	47.8	95.6	65 - 140
Chlorobenzene	50.00	51.8	104	80 - 120
Chloroethane	50.00	53.6	107	60 - 135
Chloroform	50.00	50.0	99.9	65 - 135
Chloromethane	50.00	41.0	82.0	40 - 125
2-Chlorotoluene	50.00	46.5	93.1	75 - 125
4-Chlorotoluene	50.00	52.7	105	75 - 130
Dibromochloromethane	50.00	52.8	106	60 - 135
1,2-Dibromo-3-chloropropane	50.00	50.8	102	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.9	108	80 - 120
Dibromomethane	50.00	54.8	110	75 - 125
1,2-Dichlorobenzene	50.00	50.0	99.9	70 - 120
1,3-Dichlorobenzene	50.00	46.4	92.8	75 - 125
1,4-Dichlorobenzene	50.00	39.1	78.2	75 - 125
Dichlorodifluoromethane	50.00	48.2	96.3	30 - 155
1,1-Dichloroethane	50.00	53.5	107	70 - 135
1,2-Dichloroethane	50.00	51.4	103	70 - 130
1,1-Dichloroethene	50.00	58.8	118	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B01007
Laboratory ID: 1B01007-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	57.1	114	70 - 125
trans-1,2-Dichloroethene	50.00	58.3	117	60 - 140
1,2-Dichloropropane	50.00	52.5	105	75 - 125
1,3-Dichloropropane	50.00	49.7	99.3	75 - 125
2,2-Dichloropropane	50.00	54.1	108	70 - 135
1,1-Dichloropropene	50.00	52.2	104	75 - 130
cis-1,3-Dichloropropene	50.00	55.2	110	70 - 130
trans-1,3-Dichloropropene	50.00	59.3	119	55 - 140
Ethylbenzene	50.00	53.8	108	75 - 125
Hexachlorobutadiene	50.00	49.1	98.3	50 - 140
2-Hexanone	100.0	91.2	91.2	55 - 130
Isopropylbenzene	50.00	50.9	102	75 - 125
p-Isopropyltoluene	50.00	44.1	88.3	75 - 130
Methylene chloride	50.00	53.8	108	55 - 140
Naphthalene	50.00	48.1	96.2	55 - 140
4-Methyl-2-pentanone	100.0	104	104	60 - 135
Methyl t-Butyl Ether	100.0	112	112	65 - 125
n-Propylbenzene	50.00	48.1	96.2	70 - 130
Styrene	50.00	60.1	120	65 - 135
1,1,2,2-Tetrachloroethane	50.00	50.5	101	65 - 130
1,1,1,2-Tetrachloroethane	50.00	51.3	103	80 - 130
Tetrachloroethene	50.00	53.5	107	45 - 150
Toluene	50.00	51.0	102	75 - 120
1,2,3-Trichlorobenzene	50.00	53.8	108	55 - 140
1,2,4-Trichlorobenzene	50.00	53.7	107	65 - 135
1,1,2-Trichloroethane	50.00	50.8	102	75 - 125
1,1,1-Trichloroethane	50.00	50.8	102	65 - 130
Trichloroethene	50.00	53.7	107	70 - 125
Trichlorofluoromethane	50.00	48.7	97.4	60 - 145
1,2,3-Trichloropropane	50.00	50.9	102	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B01007
Laboratory ID: 1B01007-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	50.2	100	75 - 130
1,2,4-Trimethylbenzene	50.00	49.5	99.0	75 - 130
Vinyl chloride	50.00	37.1	74.2	50 - 145
m,p-Xylene	100.0	110	110	75 - 130
o-Xylene	50.00	55.2	110	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	89.2	89.2	5.52	30	40 - 140
Benzene	50.00	54.8	110	1.34	30	80 - 120
Bromobenzene	50.00	49.0	98.1	3.08	30	75 - 125
Bromochloromethane	50.00	54.3	109	3.53	30	65 - 130
Bromodichloromethane	50.00	55.6	111	1.72	30	75 - 120
Bromoform	50.00	62.7	125	1.58	30	70 - 130
Bromomethane	50.00	20.4	40.8	22.1	30	30 - 145
n-Butylbenzene	50.00	44.1	88.3	2.30	30	70 - 135
2-Butanone	100.0	113	113	3.24	30	30 - 150
sec-Butylbenzene	50.00	43.8	87.7	0.748	30	70 - 125
tert-Butylbenzene	50.00	45.3	90.6	1.57	30	70 - 130
Carbon disulfide	50.00	52.1	104	2.90	30	35 - 160
Carbon tetrachloride	50.00	50.1	100	4.61	30	65 - 140
Chlorobenzene	50.00	52.8	106	1.95	30	80 - 120
Chloroethane	50.00	48.7	97.5	9.49	30	60 - 135
Chloroform	50.00	48.9	97.9	2.09	30	65 - 135
Chloromethane	50.00	40.3	80.5	1.87	30	40 - 125
2-Chlorotoluene	50.00	46.1	92.2	0.980	30	75 - 125
4-Chlorotoluene	50.00	49.6	99.2	6.04	30	75 - 130
Dibromochloromethane	50.00	54.5	109	3.10	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	47.3	94.7	7.06	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	55.4	111	2.78	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B01007
Laboratory ID: 1B01007-BSD1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibromomethane	50.00	54.2	108	1.13	30	75 - 125
1,2-Dichlorobenzene	50.00	47.6	95.2	4.88	30	70 - 120
1,3-Dichlorobenzene	50.00	51.8	104	10.9	30	75 - 125
1,4-Dichlorobenzene	50.00	42.0	83.9	7.01	30	75 - 125
Dichlorodifluoromethane	50.00	47.4	94.8	1.56	30	30 - 155
1,1-Dichloroethane	50.00	52.6	105	1.78	30	70 - 135
1,2-Dichloroethane	50.00	49.6	99.2	3.52	30	70 - 130
1,1-Dichloroethene	50.00	61.9	124	5.18	30	70 - 130
cis-1,2-Dichloroethene	50.00	56.8	114	0.575	30	70 - 125
trans-1,2-Dichloroethene	50.00	58.9	118	0.958	30	60 - 140
1,2-Dichloropropane	50.00	53.2	106	1.33	30	75 - 125
1,3-Dichloropropane	50.00	50.7	101	2.14	30	75 - 125
2,2-Dichloropropane	50.00	48.1	96.1	11.8	30	70 - 135
1,1-Dichloropropene	50.00	53.4	107	2.15	30	75 - 130
cis-1,3-Dichloropropene	50.00	53.4	107	3.22	30	70 - 130
trans-1,3-Dichloropropene	50.00	57.6	115	3.00	30	55 - 140
Ethylbenzene	50.00	57.7	115	6.95	30	75 - 125
Hexachlorobutadiene	50.00	43.6	87.3	11.9	30	50 - 140
2-Hexanone	100.0	85.5	85.5	6.50	30	55 - 130
Isopropylbenzene	50.00	51.7	103	1.64	30	75 - 125
p-Isopropyltoluene	50.00	44.9	89.8	1.75	30	75 - 130
Methylene chloride	50.00	53.2	106	1.21	30	55 - 140
Naphthalene	50.00	45.3	90.6	5.96	30	55 - 140
4-Methyl-2-pentanone	100.0	102	102	2.75	30	60 - 135
Methyl t-Butyl Ether	100.0	112	112	0.309	30	65 - 125
n-Propylbenzene	50.00	48.0	96.0	0.275	30	70 - 130
Styrene	50.00	62.8	126	4.39	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	46.7	93.5	7.78	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	54.6	109	6.23	30	80 - 130
Tetrachloroethene	50.00	57.3	115	6.86	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B01007
Laboratory ID: 1B01007-BSD1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	50.00	51.8	104	1.59	30	75 - 120
1,2,3-Trichlorobenzene	50.00	49.6	99.1	8.26	30	55 - 140
1,2,4-Trichlorobenzene	50.00	51.1	102	4.99	30	65 - 135
1,1,2-Trichloroethane	50.00	50.8	102	0.0588	30	75 - 125
1,1,1-Trichloroethane	50.00	52.4	105	3.03	30	65 - 130
Trichloroethene	50.00	54.1	108	0.857	30	70 - 125
Trichlorofluoromethane	50.00	52.2	104	6.94	30	60 - 145
1,2,3-Trichloropropane	50.00	52.0	104	2.14	30	75 - 125
1,3,5-Trimethylbenzene	50.00	47.2	94.5	6.09	30	75 - 130
1,2,4-Trimethylbenzene	50.00	47.8	95.6	3.59	30	75 - 130
Vinyl chloride	50.00	38.6	77.1	3.91	30	50 - 145
m,p-Xylene	100.0	110	110	0.342	30	75 - 130
o-Xylene	50.00	55.2	110	0.0105	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B01012
Laboratory ID: 1B01012-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	91.9	91.9	40 - 140
Benzene	50.00	56.2	112	80 - 120
Bromobenzene	50.00	50.6	101	75 - 125
Bromochloromethane	50.00	54.7	109	65 - 130
Bromodichloromethane	50.00	56.6	113	75 - 120
Bromoform	50.00	61.0	122	70 - 130
Bromomethane	50.00	27.2	54.5	30 - 145
n-Butylbenzene	50.00	42.3	84.7	70 - 135
2-Butanone	100.0	90.8	90.8	30 - 150
sec-Butylbenzene	50.00	45.9	91.8	70 - 125
tert-Butylbenzene	50.00	43.8	87.7	70 - 130
Carbon disulfide	50.00	52.9	106	35 - 160
Carbon tetrachloride	50.00	50.7	101	65 - 140
Chlorobenzene	50.00	50.8	102	80 - 120
Chloroethane	50.00	54.8	110	60 - 135
Chloroform	50.00	50.1	100	65 - 135
Chloromethane	50.00	38.2	76.4	40 - 125
2-Chlorotoluene	50.00	44.5	89.0	75 - 125
4-Chlorotoluene	50.00	49.7	99.4	75 - 130
Dibromochloromethane	50.00	54.2	108	60 - 135
1,2-Dibromo-3-chloropropane	50.00	45.5	90.9	50 - 130
1,2-Dibromoethane (EDB)	50.00	54.3	109	80 - 120
Dibromomethane	50.00	53.6	107	75 - 125
1,2-Dichlorobenzene	50.00	46.6	93.1	70 - 120
1,3-Dichlorobenzene	50.00	50.4	101	75 - 125
1,4-Dichlorobenzene	50.00	41.4	82.9	75 - 125
Dichlorodifluoromethane	50.00	49.7	99.3	30 - 155
1,1-Dichloroethane	50.00	52.8	106	70 - 135
1,2-Dichloroethane	50.00	50.9	102	70 - 130
1,1-Dichloroethene	50.00	61.7	123	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B01012
Laboratory ID: 1B01012-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	57.9	116	70 - 125
trans-1,2-Dichloroethene	50.00	58.2	116	60 - 140
1,2-Dichloropropane	50.00	53.3	107	75 - 125
1,3-Dichloropropane	50.00	50.2	100	75 - 125
2,2-Dichloropropane	50.00	47.9	95.7	70 - 135
1,1-Dichloropropene	50.00	56.2	112	75 - 130
cis-1,3-Dichloropropene	50.00	53.9	108	70 - 130
trans-1,3-Dichloropropene	50.00	57.2	114	55 - 140
Ethylbenzene	50.00	56.6	113	75 - 125
Hexachlorobutadiene	50.00	47.9	95.7	50 - 140
2-Hexanone	100.0	82.7	82.7	55 - 130
Isopropylbenzene	50.00	51.4	103	75 - 125
p-Isopropyltoluene	50.00	44.5	89.0	75 - 130
Methylene chloride	50.00	54.7	109	55 - 140
Naphthalene	50.00	43.1	86.2	55 - 140
4-Methyl-2-pentanone	100.0	95.5	95.5	60 - 135
Methyl t-Butyl Ether	100.0	112	112	65 - 125
n-Propylbenzene	50.00	46.8	93.6	70 - 130
Styrene	50.00	60.3	121	65 - 135
1,1,2,2-Tetrachloroethane	50.00	44.5	89.0	65 - 130
1,1,1,2-Tetrachloroethane	50.00	54.0	108	80 - 130
Tetrachloroethene	50.00	57.3	115	45 - 150
Toluene	50.00	50.6	101	75 - 120
1,2,3-Trichlorobenzene	50.00	48.9	97.8	55 - 140
1,2,4-Trichlorobenzene	50.00	48.4	96.8	65 - 135
1,1,2-Trichloroethane	50.00	50.5	101	75 - 125
1,1,1-Trichloroethane	50.00	52.3	105	65 - 130
Trichloroethene	50.00	54.2	108	70 - 125
Trichlorofluoromethane	50.00	52.8	106	60 - 145
1,2,3-Trichloropropane	50.00	50.1	100	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B01012
Laboratory ID: 1B01012-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	47.5	94.9	75 - 130
1,2,4-Trimethylbenzene	50.00	47.2	94.5	75 - 130
Vinyl chloride	50.00	36.3	72.7	50 - 145
m,p-Xylene	100.0	111	111	75 - 130
o-Xylene	50.00	53.8	108	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	90.3	90.3	1.76	30	40 - 140
Benzene	50.00	55.8	112	0.697	30	80 - 120
Bromobenzene	50.00	51.1	102	1.05	30	75 - 125
Bromochloromethane	50.00	54.6	109	0.202	30	65 - 130
Bromodichloromethane	50.00	57.4	115	1.30	30	75 - 120
Bromoform	50.00	58.4	117	4.33	30	70 - 130
Bromomethane	50.00	27.0	53.9	0.980	30	30 - 145
n-Butylbenzene	50.00	43.5	87.0	2.74	30	70 - 135
2-Butanone	100.0	90.7	90.7	0.119	30	30 - 150
sec-Butylbenzene	50.00	45.0	90.1	1.88	30	70 - 125
tert-Butylbenzene	50.00	45.8	91.5	4.29	30	70 - 130
Carbon disulfide	50.00	53.0	106	0.140	30	35 - 160
Carbon tetrachloride	50.00	51.9	104	2.23	30	65 - 140
Chlorobenzene	50.00	50.6	101	0.471	30	80 - 120
Chloroethane	50.00	54.3	109	0.841	30	60 - 135
Chloroform	50.00	50.7	101	1.18	30	65 - 135
Chloromethane	50.00	41.7	83.3	8.64	30	40 - 125
2-Chlorotoluene	50.00	48.8	97.6	9.21	30	75 - 125
4-Chlorotoluene	50.00	51.1	102	2.77	30	75 - 130
Dibromochloromethane	50.00	52.6	105	2.96	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	46.9	93.7	3.02	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	55.2	110	1.60	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B01012
Laboratory ID: 1B01012-BSD1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibromomethane	50.00	54.3	109	1.29	30	75 - 125
1,2-Dichlorobenzene	50.00	49.6	99.2	6.32	30	70 - 120
1,3-Dichlorobenzene	50.00	44.1	88.3	13.3	30	75 - 125
1,4-Dichlorobenzene	50.00	40.7	81.5	1.70	30	75 - 125
Dichlorodifluoromethane	50.00	48.1	96.1	3.28	30	30 - 155
1,1-Dichloroethane	50.00	53.3	107	0.922	30	70 - 135
1,2-Dichloroethane	50.00	51.9	104	1.96	30	70 - 130
1,1-Dichloroethene	50.00	61.9	124	0.373	30	70 - 130
cis-1,2-Dichloroethene	50.00	55.7	111	3.97	30	70 - 125
trans-1,2-Dichloroethene	50.00	58.3	117	0.293	30	60 - 140
1,2-Dichloropropane	50.00	51.1	102	4.06	30	75 - 125
1,3-Dichloropropane	50.00	46.8	93.6	7.00	30	75 - 125
2,2-Dichloropropane	50.00	38.3	76.5	22.3	30	70 - 135
1,1-Dichloropropene	50.00	55.5	111	1.13	30	75 - 130
cis-1,3-Dichloropropene	50.00	53.0	106	1.72	30	70 - 130
trans-1,3-Dichloropropene	50.00	54.4	109	5.19	30	55 - 140
Ethylbenzene	50.00	52.0	104	8.48	30	75 - 125
Hexachlorobutadiene	50.00	44.7	89.3	6.91	30	50 - 140
2-Hexanone	100.0	80.9	80.9	2.28	30	55 - 130
Isopropylbenzene	50.00	49.7	99.3	3.51	30	75 - 125
p-Isopropyltoluene	50.00	44.5	89.1	0.0654	30	75 - 130
Methylene chloride	50.00	54.4	109	0.581	30	55 - 140
Naphthalene	50.00	46.2	92.3	6.83	30	55 - 140
4-Methyl-2-pentanone	100.0	99.9	99.9	4.50	30	60 - 135
Methyl t-Butyl Ether	100.0	111	111	0.796	30	65 - 125
n-Propylbenzene	50.00	45.9	91.9	1.89	30	70 - 130
Styrene	50.00	57.8	116	4.18	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	47.2	94.4	5.92	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	52.9	106	1.96	30	80 - 130
Tetrachloroethene	50.00	53.2	106	7.28	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B01012	Laboratory ID:	1B01012-BSD1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	50.00	48.7	97.4	3.91	30	75 - 120
1,2,3-Trichlorobenzene	50.00	50.0	100	2.24	30	55 - 140
1,2,4-Trichlorobenzene	50.00	50.4	101	3.99	30	65 - 135
1,1,2-Trichloroethane	50.00	47.5	95.1	6.08	30	75 - 125
1,1,1-Trichloroethane	50.00	54.0	108	3.32	30	65 - 130
Trichloroethene	50.00	55.3	111	2.01	30	70 - 125
Trichlorofluoromethane	50.00	52.9	106	0.182	30	60 - 145
1,2,3-Trichloropropane	50.00	52.8	106	5.23	30	75 - 125
1,3,5-Trimethylbenzene	50.00	47.3	94.6	0.369	30	75 - 130
1,2,4-Trimethylbenzene	50.00	47.6	95.2	0.703	30	75 - 130
Vinyl chloride	50.00	36.9	73.8	1.54	30	50 - 145
m,p-Xylene	100.0	103	103	7.74	30	75 - 130
o-Xylene	50.00	52.4	105	2.67	30	80 - 120

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B01007 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0001	1101162-01	02/01/11 00:00	5.00	5.00
GW8001-TB	1101162-02	02/01/11 00:00	5.00	5.00
GW0017	1101181-01	02/01/11 00:00	5.00	5.00
GW0032	1101181-02	02/01/11 00:00	5.00	5.00
GW8002-TB	1101181-03	02/01/11 00:00	5.00	5.00
Blank	1B01007-BLK1	02/01/11 00:00	5.00	5.00
LCS	1B01007-BS1	02/01/11 00:00	5.00	5.00
LCS Dup	1B01007-BSD1	02/01/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B01012 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0002	1101198-01	02/01/11 14:32	5.00	5.00
GW0003	1101198-03	02/01/11 14:32	5.00	5.00
GW0004	1101198-05	02/01/11 14:32	5.00	5.00
GW8003-TB	1101198-07	02/01/11 14:32	5.00	5.00
Blank	1B01012-BLK1	02/01/11 14:32	5.00	5.00
LCS	1B01012-BS1	02/01/11 14:32	5.00	5.00
LCS Dup	1B01012-BSD1	02/01/11 14:32	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	10/12/10
Instrument ID:	MS-VOA4	Injection Time:	07:37
Sequence:	0J28708	Lab Sample ID:	0J28708-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	23.9	PASS
75	30 - 60% of 95	48.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.11	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	69.7	PASS
175	5 - 9% of 174	7.95	PASS
176	95 - 101% of 174	95	PASS
177	5 - 9% of 176	6.78	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0201TU1E.D	Injection Date:	02/01/11
Instrument ID:	MS-VOA4	Injection Time:	22:08
Sequence:	1B03303	Lab Sample ID:	1B03303-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	20.3	PASS
75	30 - 60% of 95	44	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	8.54	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	59	PASS
175	5 - 9% of 174	8.12	PASS
176	95 - 101% of 174	97.5	PASS
177	5 - 9% of 176	6.63	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0201TU1.D	Injection Date:	02/01/11
Instrument ID:	MS-VOA4	Injection Time:	10:15
Sequence:	1B03305	Lab Sample ID:	1B03305-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	15.4	PASS
75	30 - 60% of 95	39.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.99	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	96.7	PASS
175	5 - 9% of 174	8.07	PASS
176	95 - 101% of 174	101	PASS
177	5 - 9% of 176	6.47	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 0J28708
Instrument: MS-VOA4
Calibration: 0288001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0J28708-TUN1	SEQ-TUN1.D	10/12/10 07:37
Cal Standard	0J28708-CAL1	SEQ-CAL1.D	10/12/10 08:07
Cal Standard	0J28708-CAL2	SEQ-CAL2.D	10/12/10 08:37
Cal Standard	0J28708-CAL3	SEQ-CAL3.D	10/12/10 09:07
Cal Standard	0J28708-CAL4	SEQ-CAL4.D	10/12/10 09:36
Cal Standard	0J28708-CAL5	SEQ-CAL5.D	10/12/10 10:06
Cal Standard	0J28708-CAL6	SEQ-CAL6.D	10/12/10 10:36
Cal Standard	0J28708-CAL7	SEQ-CAL7.D	10/12/10 11:05
Cal Standard	0J28708-CAL8	SEQ-CAL8.D	10/12/10 11:35
Cal Standard	0J28708-CAL9	SEQ-CAL9.D	10/12/10 12:04
Initial Cal Check	0J28708-ICV1	SEQ-ICV1.D	10/12/10 12:34
Initial Cal Check	0J28708-ICV2	SEQ-ICV2.D	10/12/10 13:04
Cal Standard	0J28708-CALA	SEQ-CALA.D	10/12/10 13:34
Cal Standard	0J28708-CALB	SEQ-CALB.D	10/12/10 14:03
Cal Standard	0J28708-CALC	SEQ-CALC.D	10/12/10 14:33
Cal Standard	0J28708-CALD	SEQ-CALD.D	10/12/10 15:03
Cal Standard	0J28708-CALE	SEQ-CALE.D	10/12/10 15:33
Cal Standard	0J28708-CALF	SEQ-CALF.D	10/12/10 16:02
Cal Standard	0J28708-CALG	SEQ-CALG.D	10/12/10 16:32
Cal Standard	0J28708-CALH	SEQ-CALH.D	10/12/10 17:02
Cal Standard	0J28708-CALI	SEQ-CALI.D	10/12/10 17:32
Initial Cal Check	0J28708-ICV3	SEQ-ICV3.D	10/12/10 18:01

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03303	Instrument:	MS-VOA4
Calibration:	0288001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B03303-TUN1	0201TU1E.D	02/01/11 22:08
Calibration Check	1B03303-CCV1	0201CC1E.D	02/01/11 22:38
LCS	1B01012-BS1	0201LS1E.D	02/01/11 23:07
Blank	1B01012-BLK1	0201BL1E.D	02/02/11 00:34
GW8003-TB	1101198-07	0119807.D	02/02/11 05:55
GW0002	1101198-01	0119801.D	02/02/11 07:54
GW0003	1101198-03	0119803.D	02/02/11 08:23
GW0004	1101198-05	0119805.D	02/02/11 08:53
LCS Dup	1B01012-BSD1	0201LD1E.D	02/02/11 09:23

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03305	Instrument:	MS-VOA4
Calibration:	0288001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B03305-TUN1	0201TU1.D	02/01/11 10:15
Calibration Check	1B03305-CCV1	0201CC1.D	02/01/11 10:45
LCS	1B01007-BS1	0201LS1.D	02/01/11 11:14
Blank	1B01007-BLK1	0201BL1.D	02/01/11 12:44
GW8001-TB	1101162-02	0116202.D	02/01/11 13:14
GW8002-TB	1101181-03	0118103.D	02/01/11 14:14
GW0001	1101162-01	0116201.D	02/01/11 15:43
GW0017	1101181-01	0118101.D	02/01/11 16:12
GW0032	1101181-02	0118102.D	02/01/11 16:42
LCS Dup	1B01007-BSD1	0201LSD1.D	02/01/11 21:39

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B03303
Instrument: MS-VOA4
Calibration: 0288001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B03303-CCV1)			Lab File ID: 0201CC1E.D			Analyzed: 02/01/11 22:38			
Fluorobenzene	2094997	11.794	1192036	11.87	176	50 - 200	-0.0760	+/-0.50	
Chlorobenzene-d5	874999	15.511	495309	15.559	177	50 - 200	-0.0480	+/-0.50	
1,4-Dichlorobenzene-d4	1081292	17.405	531452	17.463	203	50 - 200	-0.0580	+/-0.50	
LCS (1B01012-BS1)			Lab File ID: 0201LS1E.D			Analyzed: 02/01/11 23:07			
Fluorobenzene	2139572	11.785	2094997	11.794	102	50 - 200	-0.0090	+/-0.50	
Chlorobenzene-d5	853719	15.502	874999	15.511	98	50 - 200	-0.0090	+/-0.50	
1,4-Dichlorobenzene-d4	1132020	17.406	1081292	17.405	105	50 - 200	0.0010	+/-0.50	
Blank (1B01012-BLK1)			Lab File ID: 0201BL1E.D			Analyzed: 02/02/11 00:34			
Fluorobenzene	2152791	11.798	2094997	11.794	103	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	902653	15.506	874999	15.511	103	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	1220235	17.399	1081292	17.405	113	50 - 200	-0.0060	+/-0.50	
GW8003-TB (1101198-07)			Lab File ID: 0119807.D			Analyzed: 02/02/11 05:55			
Fluorobenzene	2354732	11.773	2094997	11.794	112	50 - 200	-0.0210	+/-0.50	
Chlorobenzene-d5	929462	15.501	874999	15.511	106	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	1222914	17.394	1081292	17.405	113	50 - 200	-0.0110	+/-0.50	
GW0002 (1101198-01)			Lab File ID: 0119801.D			Analyzed: 02/02/11 07:54			
Fluorobenzene	2201291	11.752	2094997	11.794	105	50 - 200	-0.0420	+/-0.50	
Chlorobenzene-d5	897622	15.49	874999	15.511	103	50 - 200	-0.0210	+/-0.50	
1,4-Dichlorobenzene-d4	1161518	17.383	1081292	17.405	107	50 - 200	-0.0220	+/-0.50	
GW0003 (1101198-03)			Lab File ID: 0119803.D			Analyzed: 02/02/11 08:23			
Fluorobenzene	2313289	11.782	2094997	11.794	110	50 - 200	-0.0120	+/-0.50	
Chlorobenzene-d5	948653	15.49	874999	15.511	108	50 - 200	-0.0210	+/-0.50	
1,4-Dichlorobenzene-d4	1288918	17.383	1081292	17.405	119	50 - 200	-0.0220	+/-0.50	
GW0004 (1101198-05)			Lab File ID: 0119805.D			Analyzed: 02/02/11 08:53			
Fluorobenzene	2239467	11.749	2094997	11.794	107	50 - 200	-0.0450	+/-0.50	
Chlorobenzene-d5	951107	15.486	874999	15.511	109	50 - 200	-0.0250	+/-0.50	
1,4-Dichlorobenzene-d4	1223065	17.379	1081292	17.405	113	50 - 200	-0.0260	+/-0.50	
LCS Dup (1B01012-BSD1)			Lab File ID: 0201LD1E.D			Analyzed: 02/02/11 09:23			
Fluorobenzene	2220589	11.748	2094997	11.794	106	50 - 200	-0.0460	+/-0.50	
Chlorobenzene-d5	934156	15.486	874999	15.511	107	50 - 200	-0.0250	+/-0.50	
1,4-Dichlorobenzene-d4	1168143	17.379	1081292	17.405	108	50 - 200	-0.0260	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B03305
Instrument: MS-VOA4
Calibration: 0288001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B03305-CCV1)			Lab File ID: 0201CC1.D			Analyzed: 02/01/11 10:45			
Fluorobenzene	1875677	11.781	1192036	11.87	157	50 - 200	-0.0890	+/-0.50	
Chlorobenzene-d5	776493	15.509	495309	15.559	157	50 - 200	-0.0500	+/-0.50	
1,4-Dichlorobenzene-d4	983367	17.402	531452	17.463	185	50 - 200	-0.0610	+/-0.50	
LCS (1B01007-BS1)			Lab File ID: 0201LS1.D			Analyzed: 02/01/11 11:14			
Fluorobenzene	1948633	11.781	1875677	11.781	104	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	794572	15.509	776493	15.509	102	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	986715	17.402	983367	17.402	100	50 - 200	0.0000	+/-0.50	
Blank (1B01007-BLK1)			Lab File ID: 0201BL1.D			Analyzed: 02/01/11 12:44			
Fluorobenzene	2057975	11.801	1875677	11.781	110	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	839528	15.509	776493	15.509	108	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	1081440	17.402	983367	17.402	110	50 - 200	0.0000	+/-0.50	
GW8001-TB (1101162-02)			Lab File ID: 0116202.D			Analyzed: 02/01/11 13:14			
Fluorobenzene	1975629	11.786	1875677	11.781	105	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	806218	15.514	776493	15.509	104	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	1053792	17.407	983367	17.402	107	50 - 200	0.0050	+/-0.50	
GW8002-TB (1101181-03)			Lab File ID: 0118103.D			Analyzed: 02/01/11 14:14			
Fluorobenzene	2111162	11.792	1875677	11.781	113	50 - 200	0.0110	+/-0.50	
Chlorobenzene-d5	836321	15.51	776493	15.509	108	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	1067233	17.403	983367	17.402	109	50 - 200	0.0010	+/-0.50	
GW0001 (1101162-01)			Lab File ID: 0116201.D			Analyzed: 02/01/11 15:43			
Fluorobenzene	1996078	11.797	1875677	11.781	106	50 - 200	0.0160	+/-0.50	
Chlorobenzene-d5	807330	15.515	776493	15.509	104	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	1053475	17.408	983367	17.402	107	50 - 200	0.0060	+/-0.50	
GW0017 (1101181-01)			Lab File ID: 0118101.D			Analyzed: 02/01/11 16:12			
Fluorobenzene	2017731	11.797	1875677	11.781	108	50 - 200	0.0160	+/-0.50	
Chlorobenzene-d5	827468	15.514	776493	15.509	107	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	1109070	17.408	983367	17.402	113	50 - 200	0.0060	+/-0.50	
GW0032 (1101181-02)			Lab File ID: 0118102.D			Analyzed: 02/01/11 16:42			
Fluorobenzene	1990375	11.811	1875677	11.781	106	50 - 200	0.0300	+/-0.50	
Chlorobenzene-d5	852182	15.519	776493	15.509	110	50 - 200	0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	1147385	17.413	983367	17.402	117	50 - 200	0.0110	+/-0.50	
LCS Dup (1B01007-BSD1)			Lab File ID: 0201LSD1.D			Analyzed: 02/01/11 21:39			
Fluorobenzene	2102928	11.788	1875677	11.781	112	50 - 200	0.0070	+/-0.50	
Chlorobenzene-d5	834208	15.516	776493	15.509	107	50 - 200	0.0070	+/-0.50	
1,4-Dichlorobenzene-d4	1119990	17.409	983367	17.402	114	50 - 200	0.0070	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0288001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 10/12/2010 8:07:20AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein	2.501	1.412946E-02	5.002	1.441223E-02	10	1.407834E-02	25.01	8.427801E-03	50.02	9.960844E-03	250.1	1.052963E-02
Acrylonitrile	2.499	7.962943E-02	4.998	7.211377E-02	9.996	7.335069E-02	24.99	6.265471E-02	49.98	7.664716E-02	249.9	8.375573E-02
Benzene	0.5	0.8663938	1	0.8493266	2	0.8120398	5	0.6829858	10	0.8278064	50	0.8911715
Bromobenzene	0.5	0.6508207	1	0.6715932	2	0.6550849	5	0.500067	10	0.6198996	50	0.6812059
Bromochloromethane	0.5	~~0.1472751~~	1	8.094003E-02	2	0.1435179	5	0.1207151	10	0.1486285	50	0.1571637
Tert-Amyl Methyl Ether	0.5	1.252534	1	0.9352227	2	0.7439205	5	0.5454518	10	0.6242929	50	0.6612554
Bromodichloromethane	0.5	0.3135584	1	0.3120022	2	0.3208515	5	0.2552052	10	0.3131402	50	0.3326161
Bromoform	0.5	0.4721784	1	0.4702228	2	0.5043629	5	0.399788	10	0.4949715	50	0.6102042
Bromomethane	0.5	0.1955426	1	0.2365998	2	0.2000572	5	0.1583927	10	0.1679393	50	0.1688435
Bromofluorobenzene	30	0.8940262	30	0.8994585	30	0.9129539	30	0.8563392	30	0.9015264	30	0.922211
n-Butylbenzene	0.5	1.288104	1	1.24636	2	1.2678	5	0.9988382	10	1.245392	50	1.318479
2-Butanone												
sec-Butylbenzene	0.5	1.68057	1	1.789989	2	1.760537	5	1.406333	10	1.684889	50	1.792478
tert-Butylbenzene	0.5	1.083394	1	1.214527	2	1.174549	5	0.9386109	10	1.154258	50	1.246904
Carbon disulfide	0.5	0.7779979	1	0.7528105	2	0.7449989	5	0.5952277	10	0.7062583	50	0.745017
Carbon tetrachloride	0.5	0.3102616	1	0.3012051	2	0.3074741	5	0.2451964	10	0.2946628	50	0.3055855
Chlorobenzene	0.5	1.799341	1	1.698751	2	1.653326	5	1.298728	10	1.559115	50	1.661159
Chloroethane	0.5	0.161029	1	0.1622088	2	0.1621717	5	0.1383183	10	0.1637146	50	0.17084
Chloroform	0.5	0.543357	1	0.4975751	2	0.4646903	5	0.3552473	10	0.4135412	50	0.4320186
2-Chloroethyl vinyl ether	0.9975	0.12518	1.995	0.1442371	3.99	0.1537942	9.975	0.1271362	19.95	0.1591284	99.75	0.1649957
Chloromethane	0.5	~~0.2867718~~	1	0.2426936	2	0.2181975	5	0.1758721	10	0.2023883	50	0.2045448
1-Chlorohexane	0.501	0.9366729	1.002	0.850798	2.004	0.7852274	5.01	0.6094385	10.02	0.7000652	50.1	0.7810724
2-Chlorotoluene	0.5	1.462955	1	1.521048	2	1.328049	5	1.139665	10	1.305298	50	1.358956
4-Chlorotoluene	0.5	1.518371	1	1.209537	2	1.305761	5	1.073703	10	1.352127	50	1.413432
Cyclohexane	0.5	0.2956835	1	0.3042647	2	0.2940839	5	0.2434474	10	0.2978457	50	0.3069402
Dibromochloromethane	0.5	0.7283971	1	0.6976602	2	0.7266762	5	0.5734934	10	0.7258753	50	0.7931365
1,2-Dibromo-3-chloropropane	0.5	0.1166518	1	9.404706E-02	2	0.1125382	5	9.064097E-02	10	0.1233731	50	0.1366668
1,2-Dibromoethane (EDB)	0.5	0.5777372	1	0.5879823	2	0.6434094	5	0.4929672	10	0.6038118	50	0.6726026
Dibromomethane	0.5	0.1926064	1	0.1765206	2	0.17786	5	0.1459642	10	0.1719974	50	0.1803686
1,2-Dichlorobenzene	0.5	1.029876	1	0.9819043	2	0.994567	5	0.8220074	10	0.9663019	50	1.072504

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Calibration: 0288001

Instrument: MS-VOA4

Matrix: Water

Calibration Date: 10/12/2010 8:07:20AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	0.5	1.106294	1	1.034391	2	1.266177	5	0.843003	10	0.9645706	50	1.061458
1,4-Dichlorobenzene	0.5	1.546205	1	1.333144	2	1.152965	5	1.011388	10	1.294182	50	1.347914
Dichlorodifluoromethane	0.5	0.2042998	1	0.2055993	2	0.1839966	5	0.1693096	10	0.1882972	50	0.1953304
1,1-Dichloroethane	0.5	0.4227656	1	0.438128	2	0.4434817	5	0.3451405	10	0.4196204	50	0.4286285
1,2-Dichloroethane	0.5	0.3068103	1	0.3104597	2	0.3120317	5	0.250402	10	0.2975097	50	0.2996612
1,1-Dichloroethene	0.5	0.1934306	1	0.2117943	2	0.2024707	5	0.1652493	10	0.197377	50	0.214604
cis-1,2-Dichloroethene	0.5	0.2447888	1	0.2632511	2	0.2570073	5	0.2042684	10	0.2420465	50	0.2636648
trans-1,2-Dichloroethene	0.5	0.2431919	1	0.2416569	2	0.2401123	5	0.1902405	10	0.2262702	50	0.247374
1,2-Dichloroethene (total)	1	0.2439904	2	0.252454	4	0.2485598	10	0.1972544	20	0.2341584	100	0.2555194
1,2-Dichloropropane	0.5	0.2229989	1	0.2451464	2	0.2356831	5	0.1953533	10	0.2290962	50	0.2520472
1,3-Dichloropropane	0.5	0.9696743	1	0.8988156	2	0.9520708	5	0.7410139	10	0.8507612	50	0.9591824
2,2-Dichloropropane	0.5	0.3457024	1	0.3139492	2	0.182456	5	0.2530848	10	0.292626	50	0.2949825
1,1-Dichloropropene	0.5	0.289708	1	0.2857555	2	0.2857134	5	0.239645	10	0.2890082	50	0.3168858
cis-1,3-Dichloropropene	0.5	0.3332878	1	0.3338997	2	0.3663115	5	0.2810528	10	0.3669598	50	0.3678071
trans-1,3-Dichloropropene	0.5	0.6827426	1	0.7422105	2	0.7814754	5	0.6184998	10	0.7933239	50	0.8427077
Diisopropyl Ether	0.5	0.8364134	1	0.803357	2	0.8065579	5	0.6735341	10	0.8154422	50	0.8869738
Ethylbenzene	0.5	2.258654	1	2.251895	2	2.291973	5	1.834074	10	2.317122	50	2.576223
Ethyl tert-Butyl Ether	0.5	0.6836779	1	0.6144969	2	0.6306365	5	0.5230556	10	0.6428041	50	0.6702955
Ethyl Methacrylate	0.5	0.5156194	1	0.5539584	2	0.613121	5	0.4848553	10	0.672593	50	0.7749705
Hexachlorobutadiene	0.5	0.3145296	1	0.2711511	2	0.2799066	5	0.20019	10	0.232725	50	0.2576563
2-Hexanone												
Iodomethane	0.5	0.179213	1	0.1950804	2	0.2066688	5	0.1878054	10	0.2572811	50	0.3775753
Isopropylbenzene	0.5	1.760743	1	1.739566	2	1.802842	5	1.294403	10	1.763818	50	2.035985
p-Isopropyltoluene	0.5	1.657164	1	1.599495	2	1.535797	5	1.213365	10	1.432579	50	1.4748
Methylene chloride	0.5	0.3138675	1	0.2846176	2	0.280116	5	0.2121981	10	0.2645089	50	0.2816165
Methyl Acetate	0.5	~~0.2909958~~	1	0.2025903	2	0.2252713	5	0.14842	10	0.1968665	50	0.2100143
Methylcyclohexane	0.5	0.2677636	1	0.2696231	2	0.2545038	5	0.2103098	10	0.2447241	50	0.2722632
Naphthalene	0.5	1.138936	1	1.162293	2	1.160496	5	0.9830856	10	1.229159	50	1.47222
Methyl Methacrylate	0.5	0.1879187	1	0.1712105	2	0.1571263	5	0.1329372	10	0.176881	50	0.2036059
4-Methyl-2-pentanone												
Methyl t-Butyl Ether	0.5	0.5422752	1	0.5664538	2	0.5445181	5	0.465092	10	0.5483781	50	0.6026832

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0288001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 10/12/2010 8:07:20AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	2.091761	1	2.130933	2	2.115204	5	1.672905	10	2.094096	50	2.19181
Styrene	0.5	1.223956	1	1.319599	2	1.432693	5	1.098706	10	1.459445	50	1.728877
1,1,2,2-Tetrachloroethane	0.5	0.5793367	1	0.5877151	2	0.6060714	5	0.4743084	10	0.5755237	50	0.5975366
1,1,1,2-Tetrachloroethane	0.5	0.5917103	1	0.6119552	2	0.6235206	5	0.4884935	10	0.5883882	50	0.6564152
tert-Butyl alcohol	2.5	1.952335E-02	5	1.843339E-02	10	1.746504E-02	25	1.516393E-02	50	1.873621E-02	250	1.950131E-02
Tetrachloroethene	0.5	0.7166376	1	0.6844853	2	0.6984887	5	0.5448322	10	0.6410487	50	0.7227585
Toluene	0.5	1.610775	1	1.500448	2	1.428001	5	1.10791	10	1.315166	50	1.42715
1,2,3-Trichlorobenzene	0.5	0.509877	1	0.5209537	2	0.5265355	5	0.4213875	10	0.5125138	50	0.5639383
1,2,4-Trichlorobenzene	0.5	0.6293122	1	0.5730617	2	0.5917133	5	0.471501	10	0.5443709	50	0.6135307
1,1,2-Trichloroethane	0.5	0.4842146	1	0.5155202	2	0.5138871	5	0.3794813	10	0.4489397	50	0.4948336
1,1,1-Trichloroethane	0.5	0.3221096	1	0.326491	2	0.3286956	5	0.2604882	10	0.3170653	50	0.3269041
Tetrahydrofuran	0.5		1		2	6.471721E-02	5	2.733347E-02	10	5.549965E-02	50	6.172387E-02
Trichloroethene	0.5	0.2429344	1	0.2566262	2	0.2428596	5	0.2036596	10	0.2418381	50	0.2570502
Trichlorofluoromethane	0.5	0.3829977	1	0.3702608	2	0.3660932	5	0.3019682	10	0.3578722	50	0.3797855
1,2,3-Trichloropropane	0.5	0.1941009	1	0.1621739	2	0.1782288	5	0.138172	10	0.1725645	50	0.1992938
1,3,5-Trimethylbenzene	0.5	1.388308	1	1.395674	2	1.425647	5	1.151866	10	1.42951	50	1.496468
1,2,4-Trimethylbenzene	0.5	1.474342	1	1.473741	2	1.466487	5	1.165051	10	1.458697	50	1.513795
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.2458706	1	0.2580927	2	0.2389697	5	0.1886618	10	0.2244886	50	0.2373971
Vinyl chloride	0.5	0.2278926	1	0.2187479	2	0.2113548	5	0.1792256	10	0.2115462	50	0.1924198
m,p-Xylene	1	1.702222	2	1.753353	4	1.828228	10	1.412349	20	1.792472	100	1.859104
o-Xylene	0.5	1.75175	1	1.741128	2	1.905787	5	1.501674	10	1.837978	50	1.997631
Vinyl acetate	0.9995	0.3636562	1.999	0.3901915	3.998	0.4283671	9.995	0.3737494	19.99	0.5034472	99.95	0.5730269
Xylenes (total)	1.5	1.718731	3	1.749278	6	1.854081	15	1.442124	30	1.807641	150	1.90528
Dibromofluoromethane	30	0.3203324	30	0.3170897	30	0.3170232	30	0.3244374	30	0.3266209	30	0.3178
1,2-Dichloroethane-d4	30	6.141786E-02	30	6.121284E-02	30	6.330586E-02	30	6.135154E-02	30	6.230557E-02	30	5.898255E-02
Toluene-d8	30	2.42066	30	2.376095	30	2.398705	30	2.309874	30	2.345115	30	2.318193
tert-Amyl alcohol	2.5		5		10	7.720874E-03	25	7.014454E-03	50	9.509538E-03	250	1.206574E-02
tert-Amyl ethyl ether	0.5	0.4555792	1	0.5044276	2	0.5131288	5	0.4202688	10	0.5125513	50	0.5584533

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0288001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 10/12/2010 8:07:20AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone					0		1	~~0.1284676~~	2	9.841055E-02	4	8.954198E-02
Acrolein	500.2	9.997232E-03	750.3	~~9.84147E-03~~	1000	~~4.861615E-03~~						
Acrylonitrile	499.8	8.140551E-02	749.7	8.329047E-02	999.6	8.192118E-02						
Benzene	100	0.8604626	150	0.8800303	200	0.8523306						
Bromobenzene	100	0.6916205	150	0.6791454	200	0.6909689						
Bromochloromethane	100	0.1522489	150	0.1646475	200	0.1596388						
Tert-Amyl Methyl Ether	100	0.6429733	150	0.650493	200	0.6446984						
Bromodichloromethane	100	0.3164541	150	0.3274641	200	0.3192836						
Bromoform	100	0.566909	150	0.5896204	200	0.5806351						
Bromomethane	100	0.1620462	150	0.1744585	200	0.1639072						
Bromofluorobenzene	30	0.8727695	30	0.849014	30	0.8420522						
n-Butylbenzene	100	1.287475	150	1.232463	200	1.253293						
2-Butanone					0		1		2	9.278396E-02	4	0.1092255
sec-Butylbenzene	100	1.715677	150	1.683872	200	1.658965						
tert-Butylbenzene	100	1.245688	150	1.183863	200	1.214505						
Carbon disulfide	100	0.7309241	150	0.7640824	200	0.7341499						
Carbon tetrachloride	100	0.2952814	150	0.3052986	200	0.2917425						
Chlorobenzene	100	1.459234	150	1.439407	200	1.325191						
Chloroethane	100	0.1660804	150	0.1704094	200	0.1643978						
Chloroform	100	0.4097539	150	0.4378816	200	0.4208143						
2-Chloroethyl vinyl ether	199.5	0.1586935	299.2	0.1605874	399	0.1428974						
Chloromethane	100	0.1959002	150	0.1981512	200	0.1992511						
1-Chlorohexane	100.2	0.7171108	150.3	0.6967219	200.4	0.6562715						
2-Chlorotoluene	100	1.356907	150	1.28001	200	1.266874						
4-Chlorotoluene	100	1.31835	150	1.3024	200	1.324946						
Cyclohexane	100	0.2960186	150	0.3104725	200	0.3008572						
Dibromochloromethane	100	0.7234668	150	0.7359187	200	0.733477						
1,2-Dibromo-3-chloropropane	100	0.150466	150	0.1530446	200	0.1604784						
1,2-Dibromoethane (EDB)	100	0.6269918	150	0.6236281	200	0.6176417						
Dibromomethane	100	0.1749916	150	0.1861659	200	0.1776577						
1,2-Dichlorobenzene	100	1.071443	150	1.046093	200	1.09277						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0288001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 10/12/2010 8:07:20AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	100	1.082704	150	1.195233	200	1.226457						
1,4-Dichlorobenzene	100	1.165738	150	1.095014	200	~~0.923675~~						
Dichlorodifluoromethane	100	0.1826113	150	0.1881635	200	0.1846034						
1,1-Dichloroethane	100	0.4092594	150	0.4351825	200	0.4273268						
1,2-Dichloroethane	100	0.2798176	150	0.290434	200	0.2814933						
1,1-Dichloroethene	100	0.2124656	150	0.2244161	200	0.2207702						
cis-1,2-Dichloroethene	100	0.2649797	150	0.2714251	200	0.2743936						
trans-1,2-Dichloroethene	100	0.2401423	150	0.2564522	200	0.2529148						
1,2-Dichloroethene (total)	200	0.252561	300	0.2639387	400	0.2636541						
1,2-Dichloropropane	100	0.2393926	150	0.246656	200	0.2281315						
1,3-Dichloropropane	100	0.8401089	150	0.8264996	200	0.8204412						
2,2-Dichloropropane	100	0.2897051	150	0.3034947	200	0.2886789						
1,1-Dichloropropene	100	0.2966167	150	0.3194873	200	0.3073971						
cis-1,3-Dichloropropene	100	0.367341	150	0.3675411	200	0.3688464						
trans-1,3-Dichloropropene	100	0.7547882	150	0.7631527	200	0.7356353						
Diisopropyl Ether	100	0.8494535	150	0.8824937	200	0.8626888						
Ethylbenzene	100	2.205012	150	2.147772	200	2.006424						
Ethyl tert-Butyl Ether	100	0.6599666	150	0.7092802	200	0.6625367						
Ethyl Methacrylate	100	0.7099228	150	0.7069222	200	0.6838055						
Hexachlorobutadiene	100	0.2697621	150	0.2663584	200	0.2831917						
2-Hexanone					0		1		2	0.2024368	4	0.3182894
Iodomethane	100	0.4058221	150	0.4413349	200	0.4302355						
Isopropylbenzene	100	1.807646	150	1.766031	200	~~1.627067~~						
p-Isopropyltoluene	100	1.345336	150	1.263363	200	1.172225						
Methylene chloride	100	0.2738967	150	0.2818584	200	0.2798026						
Methyl Acetate	100	0.2031859	150	0.2119823	200	0.2133054						
Methylcyclohexane	100	0.2636258	150	0.2710371	200	0.2449361						
Naphthalene	100	1.498515	150	1.463061	200	1.536576						
Methyl Methacrylate	100	0.1913049	150	0.2092806	200	0.1993244						
4-Methyl-2-pentanone					0		1	0.2160097	2	0.200897	4	0.1919886
Methyl t-Butyl Ether	100	0.5913634	150	0.6390476	200	0.6076928						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0288001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 10/12/2010 8:07:20AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	100	2.107769	150	1.945428	200	1.895355						
Styrene	100	1.467043	150	1.493951	200	1.362095						
1,1,2,2-Tetrachloroethane	100	0.5911781	150	0.5760202	200	0.5543792						
1,1,1,2-Tetrachloroethane	100	0.5994237	150	0.5870914	200	0.5604556						
tert-Butyl alcohol	500	1.910569E-02	750	2.039113E-02	1000	2.018491E-02						
Tetrachloroethene	100	0.6847907	150	0.6915765	200	0.6686829						
Toluene	100	1.213554	150	1.230378	200	1.159675						
1,2,3-Trichlorobenzene	100	0.5959035	150	0.5937985	200	0.6298415						
1,2,4-Trichlorobenzene	100	0.6542648	150	0.651805	200	0.6753726						
1,1,2-Trichloroethane	100	0.4573434	150	0.454846	200	0.4548685						
1,1,1-Trichloroethane	100	0.3179136	150	0.3336996	200	0.321798						
Tetrahydrofuran	100	5.882297E-02	150	6.464262E-02	200	6.602355E-02						
Trichloroethene	100	0.2531206	150	0.2593533	200	0.2271436						
Trichlorofluoromethane	100	0.3601888	150	0.3597074	200	0.3506244						
1,2,3-Trichloropropane	100	0.1773627	150	0.1907041	200	0.1842886						
1,3,5-Trimethylbenzene	100	1.444226	150	1.375321	200	1.379256						
1,2,4-Trimethylbenzene	100	1.534865	150	1.406387	200	1.422551						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2352261	150	0.2455964	200	0.2358475						
Vinyl chloride	100	0.1690101	150	0.150475	200	0.1290975						
m,p-Xylene	200	1.551678	300	1.421052	400	1.284514						
o-Xylene	100	1.742667	150	1.678592	200	1.481111						
Vinyl acetate	199.9	0.5394958	299.8	0.5581809	399.8	0.5498253						
Xylenes (total)	300	1.61534	450	1.506898	600	1.350046						
Dibromofluoromethane	30	0.3165545	30	0.3250254	30	0.3100728						
1,2-Dichloroethane-d4	30	6.013583E-02	30	6.141876E-02	30	6.387307E-02						
Toluene-d8	30	2.119679	30	2.248726	30	2.185486						
tert-Amyl alcohol	500	1.192226E-02	750	~~0.013933~~	1000	~~1.438006E-02~~						
tert-Amyl ethyl ether	100	0.5491943	150	0.5659605	200	0.5121851						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0288001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 10/12/2010 8:07:20AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	10	7.039054E-02	20	7.210798E-02	100	0.0740447	200	7.357078E-02	300	7.410429E-02	400	7.274751E-02
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone	10	9.240356E-02	20	9.799769E-02	100	0.1181957	200	0.120724	300	0.12054	400	0.1265497
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0288001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 10/12/2010 8:07:20AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone	10	0.3105198	20	0.3814912	100	0.4490562	200	0.4408872	300	0.4529611	400	0.4310789
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone	10	0.1882157	20	0.216239	100	0.2392707	200	0.2395619	300	0.2338073	400	0.2324055
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0288001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 10/12/2010 8:07:20AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0288001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 10/12/2010 8:07:20AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	7.811479E-02	12.98642	4.883875	0.1651504			15	
Acrolein	1.164793E-02	21.2898	4.749857	0.2749885	0.9992237		0.995	
Acrylonitrile	7.719652E-02	8.91034	5.496889	0.192848			15	
Benzene	0.8358386	7.447958	11.46056	6.101201E-02			15	
Bromobenzene	0.648934	9.294358	16.67811	3.162201E-02			15	
Bromochloromethane	0.1409376	19.66609	8.614375	0.1381148	0.9990308		0.995	
Tert-Amyl Methyl Ether	0.744538	29.44834	11.85422	6.899229E-02	0.9999147		0.995	
Bromodichloromethane	0.3122862	7.199629	12.56544	5.775564E-02			15	
Bromoform	0.520988	13.39114	15.98744	2.734544E-02			SPCC (0.1)	
Bromomethane	0.1808652	14.08194	3.995111	0.1613203			15	
Bromofluorobenzene	0.8833723	3.304377	16.52356	1.912178E-02			15	
n-Butylbenzene	1.237578	7.553513	17.77633	2.847747E-02			15	
2-Butanone	0.1098025	12.49449	7.96125	0.1101004			15	
sec-Butylbenzene	1.685923	6.87793	17.36067	2.429653E-02			15	
tert-Butylbenzene	1.161811	8.417131	17.20733	2.399951E-02			15	
Carbon disulfide	0.7279408	7.388771	5.927556	0.1240831			15	
Carbon tetrachloride	0.2951898	6.707225	11.39922	4.289152E-02			15	
Chlorobenzene	1.543806	11.24769	15.59067	0.0172928			SPCC (0.3)	
Chloroethane	0.16213	5.915595	4.138667	0.1800098			15	
Chloroform	0.4416533	12.35422	8.738889	0.10134			CCC (20)	
2-Chloroethyl vinyl ether	0.1485167	9.852501	13.20544	4.766954E-02			15	
Chloromethane	0.2046249	9.440292	3.416625	0.1821392			SPCC (0.1)	
1-Chlorohexane	0.7481532	13.54377	15.55333	2.749431E-02			15	
2-Chlorotoluene	1.335529	8.32063	16.88311	0.0178394			15	
4-Chlorotoluene	1.313181	9.407734	16.94211	1.944844E-02			15	
Cyclohexane	0.2944015	6.758321	11.25233	4.634363E-02			15	
Dibromochloromethane	0.7153446	8.227871	14.58	3.012385E-02			15	
1,2-Dibromo-3-chloropropane	0.1264341	20.12126	18.08956	3.416032E-02	0.9984303		0.995	
1,2-Dibromoethane (EDB)	0.6051969	8.389087	14.81344	4.322662E-02			15	
Dibromomethane	0.1760147	7.308508	12.37689	5.150049E-02			15	
1,2-Dichlorobenzene	1.008607	8.182712	17.74889	2.767189E-02			15	
1,3-Dichlorobenzene	1.086699	12.24273	17.43522	2.117104E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0288001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 10/12/2010 8:07:20AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.243319	13.70698	17.47762	1.795493E-02			15	
Dichlorodifluoromethane	0.1891346	5.980716	3.232333	0.1998126			15	
1,1-Dichloroethane	0.418837	7.039043	7.088333	0.1360939			SPCC (0.1)	
1,2-Dichloroethane	0.2920688	6.676541	10.47089	9.660483E-02			15	
1,1-Dichloroethene	0.2047309	8.80159	5.421222	0.1470215			CCC (20)	
cis-1,2-Dichloroethene	0.2539806	8.500709	8.276556	0.1125492			15	
trans-1,2-Dichloroethene	0.237595	8.308158	6.627889	0.1558001			15	
1,2-Dichloroethene (total)	0.2457878	8.307382	0	0			15	
1,2-Dichloropropane	0.2327228	7.286534	12.44056	4.960852E-02			CCC (20)	
1,3-Dichloropropane	0.8731742	8.835219	14.34878	3.405028E-02			15	
2,2-Dichloropropane	0.2849644	15.98146	8.946222	0.1070355	0.9991256		0.995	
1,1-Dichloropropene	0.2922463	8.085133	11.12544	6.355423E-02			15	
cis-1,3-Dichloropropene	0.3503386	8.51877	13.44233	4.778818E-02			15	
trans-1,3-Dichloropropene	0.7460596	8.686804	13.94544	4.750241E-02	0.9987458		0.995	
Diisopropyl Ether	0.8241016	7.808748	8.034222	0.1212186			15	
Ethylbenzene	2.209905	9.371095	15.75267	2.660989E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.6440833	8.289269	8.980111	0.1155358			15	
Ethyl Methacrylate	0.6350853	15.54931	14.42889	4.426725E-02	0.9987937		0.995	
Hexachlorobutadiene	0.2639412	12.24359	19.45767	2.079233E-02	0.9985922		0.995	
2-Hexanone	0.3733401	24.00448	14.53588	2.457738E-02	0.9990205		0.995	
Iodomethane	0.2978907	38.05978	5.468111	0.0851372	0.9984697		0.995	
Isopropylbenzene	1.746379	11.7757	16.49213	2.846942E-02		0.9993308	0.99	
p-Isopropyltoluene	1.410458	12.23948	17.48356	0.0231966			15	
Methylene chloride	0.2747203	9.799394	5.622778	0.1150049			15	
Methyl Acetate	0.2014545	11.45819	5.662375	0.1851835			15	
Methylcyclohexane	0.2554207	7.841342	13.18589	3.196291E-02			15	
Naphthalene	1.293816	15.4847	19.43033	3.506097E-02	0.9992359		0.995	
Methyl Methacrylate	0.1810655	13.51891	12.88022	0.1067331			15	
4-Methyl-2-pentanone	0.2175995	9.243582	13.6	1.937434E-02			15	
Methyl t-Butyl Ether	0.5675005	8.933146	6.842667	0.1403714			15	
n-Propylbenzene	2.027251	7.998311	16.80856	2.232981E-02			15	
Styrene	1.398485	12.78473	16.16522	2.535922E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0288001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 10/12/2010 8:07:20AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.571341	6.879798	16.23211	1.457299E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.5897171	7.884472	15.53133	1.789641E-02			15	
tert-Butyl alcohol	1.872277E-02	8.580325	5.431222	0.1939848			15	
Tetrachloroethene	0.672589	7.991221	14.99656	3.157054E-02			15	
Toluene	1.332562	12.69402	14.27644	3.516708E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.5416388	11.47717	19.64078	2.791796E-02			15	
1,2,4-Trichlorobenzene	0.600548	10.65399	19.2	0.0262916			15	
1,1,2-Trichloroethane	0.4671038	8.954989	14.09111	1.621246E-02			15	
1,1,1-Trichloroethane	0.3172406	6.912256	10.70211	6.868758E-02			15	
Tetrahydrofuran	5.696619E-02	23.84813	9.590714	0.1575383	0.9977767		0.995	
Trichloroethene	0.2427317	7.359239	12.51733	4.375905E-02			15	
Trichlorofluoromethane	0.3588331	6.617386	4.754778	0.136445			15	
1,2,3-Trichloropropane	0.1774321	10.50135	16.33711	2.084805E-02			15	
1,3,5-Trimethylbenzene	1.387364	6.937917	17.00567	2.039971E-02			15	
1,2,4-Trimethylbenzene	1.435102	7.578538	17.28522	2.407134E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2344612	8.315713	5.692889	0.1918493			15	
Vinyl chloride	0.1877522	17.83565	3.594	0.2135421		0.9976122	CCC (20)	
m,p-Xylene	1.622775	12.97502	15.91389	3.051657E-02			15	
o-Xylene	1.737591	9.782529	16.22211	0.0209374			15	
Vinyl acetate	0.4755489	18.07545	7.343667	0.2055285	0.9996767		0.995	
Xylenes (total)	1.661047	11.65853	0	0			15	
Dibromofluoromethane	0.3194396	1.636608	9.023	0.1104891			15	
1,2-Dichloroethane-d4	6.155599E-02	2.425279	10.27133	5.054035E-02			15	
Toluene-d8	2.302504	4.363621	14.19967	2.300475E-02			15	
tert-Amyl alcohol	9.646573E-03	24.13734	10.066	9.176771E-02	0.9995923		0.995	
tert-Amyl ethyl ether	0.5101943	9.31806	13.10133	4.172372E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	10/12/10 08:07
Sequence:	0J28708	Injection Date:	10/12/10
Lab Sample ID:	0J28708-ICV1	Injection Time:	12:34

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzene	A	50.00	54.33	0.8358386	0.9082969		8.7	20
Bromobenzene	A	50.00	54.54	0.648934	0.7078997		9.1	20
Bromochloromethane	L	50.00	52.18	0.1409376	0.1648435		4.4	20
Bromodichloromethane	A	50.00	55.94	0.3122862	0.3493782		11.9	20
Bromoform	A	50.00	59.82	0.520988	0.6233229	0.1	19.6	20
Bromomethane	A	50.00	48.14	0.1808652	0.1741393		-3.7	20
n-Butylbenzene	A	50.00	55.67	1.237578	1.377912		11.3	20
sec-Butylbenzene	A	50.00	55.12	1.685923	1.858663		10.2	20
tert-Butylbenzene	A	50.00	56.26	1.161811	1.307245		12.5	20
Carbon disulfide	A	50.00	46.75	0.7279408	0.6806861		-6.5	20
Carbon tetrachloride	A	50.00	51.79	0.2951898	0.3057386		3.6	20
Chlorobenzene	A	50.00	52.54	1.543806	1.622352	0.3	5.1	20
Chloroethane	A	50.00	53.23	0.16213	0.1726058		6.5	20
Chloroform	A	50.00	49.01	0.4416533	0.4328721		-2.0	20
Chloromethane	A	50.00	47.57	0.2046249	0.1946981	0.1	-4.9	20
2-Chlorotoluene	A	50.00	51.53	1.335529	1.376429		3.1	20
4-Chlorotoluene	A	50.00	56.09	1.313181	1.473006		12.2	20
Dibromochloromethane	A	50.00	56.38	0.7153446	0.8065623		12.8	20
1,2-Dibromo-3-chloropropane	L	50.00	51.26	0.1264341	0.1553812		2.5	20
1,2-Dibromoethane (EDB)	A	50.00	54.15	0.6051969	0.6554086		8.3	20
Dibromomethane	A	50.00	53.49	0.1760147	0.1883052		7.0	20
1,2-Dichlorobenzene	A	50.00	55.37	1.008607	1.116891		10.7	20
1,3-Dichlorobenzene	A	50.00	55.52	1.086699	1.206576		11.0	20
1,4-Dichlorobenzene	A	50.00	48.57	1.243319	1.207771		-2.9	20
Dichlorodifluoromethane	A	50.00	52.67	0.1891346	0.1992503		5.3	20
1,1-Dichloroethane	A	50.00	53.39	0.418837	0.4472517	0.1	6.8	20
1,2-Dichloroethane	A	50.00	51.75	0.2920688	0.302288		3.5	20
1,1-Dichloroethene	A	50.00	58.15	0.2047309	0.2381108		16.3	20
cis-1,2-Dichloroethene	A	50.00	54.20	0.2539806	0.2753079		8.4	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	10/12/10 08:07
Sequence:	0J28708	Injection Date:	10/12/10
Lab Sample ID:	0J28708-ICV1	Injection Time:	12:34

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
trans-1,2-Dichloroethene	A	50.00	54.91	0.237595	0.2609146		9.8	20
1,2-Dichloropropane	A	50.00	50.56	0.2327228	0.2353368		1.1	20
1,3-Dichloropropane	A	50.00	50.87	0.8731742	0.8884112		1.7	20
2,2-Dichloropropane	L	50.00	50.23	0.2849644	0.2944428		0.5	20
1,1-Dichloropropene	A	50.00	55.30	0.2922463	0.323201		10.6	20
cis-1,3-Dichloropropene	A	50.00	51.23	0.3503386	0.3589287		2.5	20
trans-1,3-Dichloropropene	L	50.00	58.04	0.7460596	0.8794926		16.1	20
Ethylbenzene	A	50.00	55.28	2.209905	2.443422		10.6	20
Isopropylbenzene	Q	50.00	55.60	1.746379	2.150923		11.2	20
p-Isopropyltoluene	A	50.00	55.59	1.410458	1.56809		11.2	20
Methylene chloride	A	50.00	51.43	0.2747203	0.2825902		2.9	20
Naphthalene	L	50.00	53.36	1.293816	1.585289		6.7	20
Methyl t-Butyl Ether	A	50.00	51.65	0.5675005	0.5861737		3.3	20
n-Propylbenzene	A	50.00	55.43	2.027251	2.247259		10.9	20
Styrene	A	50.00	59.78	1.398485	1.671962		19.6	20
1,1,2,2-Tetrachloroethane	A	50.00	55.84	0.571341	0.6380453	0.3	11.7	20
1,1,1,2-Tetrachloroethane	A	50.00	55.63	0.5897171	0.6561605		11.3	20
Tetrachloroethene	A	50.00	54.40	0.672589	0.7318205		8.8	20
Toluene	A	50.00	52.33	1.332562	1.394579		4.7	20
1,2,3-Trichlorobenzene	A	50.00	58.10	0.5416388	0.6294189		16.2	20
1,2,4-Trichlorobenzene	A	50.00	58.09	0.600548	0.6976671		16.2	20
1,1,2-Trichloroethane	A	50.00	53.69	0.4671038	0.5015934		7.4	20
1,1,1-Trichloroethane	A	50.00	52.74	0.3172406	0.3345994		5.5	20
Trichloroethene	A	50.00	51.47	0.2427317	0.2498811		2.9	20
Trichlorofluoromethane	A	50.00	49.87	0.3588331	0.3579055		-0.3	20
1,2,3-Trichloropropane	A	50.00	55.95	0.1774321	0.1985343		11.9	20
1,3,5-Trimethylbenzene	A	50.00	56.74	1.387364	1.574493		13.5	20
1,2,4-Trimethylbenzene	A	50.00	57.08	1.435102	1.638436		14.2	20
Vinyl chloride	Q	50.00	43.95	0.1877522	0.1862395		-12.1	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	SEQ-ICV1.D	Calibration Date:	10/12/10 08:07
Sequence:	0J28708	Injection Date:	10/12/10
Lab Sample ID:	0J28708-ICV1	Injection Time:	12:34

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
m,p-Xylene	A	100.0	114.5	1.622775	1.857683		14.5	20
o-Xylene	A	50.00	55.99	1.737591	1.945592		12.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	SEQ-ICV2.D	Calibration Date:	10/12/10 08:07
Sequence:	0J28708	Injection Date:	10/12/10
Lab Sample ID:	0J28708-ICV2	Injection Time:	13:04

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Hexachlorobutadiene	L	100.0	107.9	0.2639412	0.2964937		7.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	SEQ-ICV3.D	Calibration Date:	10/12/10 08:07
Sequence:	0J28708	Injection Date:	10/12/10
Lab Sample ID:	0J28708-ICV3	Injection Time:	18:01

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	100.0	102.9	7.811479E-02	8.041102E-02		2.9	20
2-Butanone	A	100.0	116.3	0.1098025	0.1276662		16.3	20
2-Hexanone	L	100.0	105.9	0.3733401	0.4633809		5.9	20
4-Methyl-2-pentanone	A	100.0	115.5	0.2175995	0.2512686		15.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	0201CC1E.D	Calibration Date:	10/12/10 08:07
Sequence:	1B03303	Injection Date:	02/01/11
Lab Sample ID:	1B03303-CCV1	Injection Time:	22:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	200.0	210.0	7.811479E-02	0.0820421		5.0	20	
Benzene	A	100.0	107.7	0.8358386	0.9002242		7.7	20	
Bromobenzene	A	100.0	101.5	0.648934	0.6587039		1.5	20	
Bromochloromethane	L	100.0	111.1	0.1409376	0.1774803		11.1	20	
Bromodichloromethane	A	100.0	106.5	0.3122862	0.3324774		6.5	20	
Bromoform	A	100.0	119.2	0.520988	0.6211255	0.1	19.2	20	
Bromomethane	A	100.0	58.59	0.1808652	0.105971		-41.4	20	*
n-Butylbenzene	A	100.0	87.46	1.237578	1.082426		-12.5	20	
2-Butanone	A	200.0	215.6	0.1098025	0.1183501		7.8	20	
sec-Butylbenzene	A	100.0	88.07	1.685923	1.484791		-11.9	20	
tert-Butylbenzene	A	100.0	93.76	1.161811	1.08932		-6.2	20	
Carbon disulfide	A	100.0	111.6	0.7279408	0.8120498		11.6	20	
Carbon tetrachloride	A	100.0	103.4	0.2951898	0.3051544		3.4	20	
Chlorobenzene	A	100.0	96.31	1.543806	1.486885	0.3	-3.7	20	
Chloroethane	A	100.0	104.6	0.16213	0.1695517		4.6	20	
Chloroform	A	100.0	101.4	0.4416533	0.4476415		1.4	20	
Chloromethane	A	100.0	75.80	0.2046249	0.1551015	0.1	-24.2	20	*
2-Chlorotoluene	A	100.0	90.11	1.335529	1.203497		-9.9	20	
4-Chlorotoluene	A	100.0	99.68	1.313181	1.309007		-0.3	20	
Dibromochloromethane	A	100.0	102.5	0.7153446	0.7335115		2.5	20	
1,2-Dibromo-3-chloropropane	L	100.0	95.08	0.1264341	0.1472591		-4.9	20	
1,2-Dibromoethane (EDB)	A	100.0	105.4	0.6051969	0.637905		5.4	20	
Dibromomethane	A	100.0	106.9	0.1760147	0.1882216		6.9	20	
1,2-Dichlorobenzene	A	100.0	95.57	1.008607	0.9639491		-4.4	20	
1,3-Dichlorobenzene	A	100.0	94.60	1.086699	1.027977		-5.4	20	
1,4-Dichlorobenzene	A	100.0	84.07	1.243319	1.045258		-15.9	20	
Dichlorodifluoromethane	A	100.0	78.57	0.1891346	0.1486105		-21.4	20	*
1,1-Dichloroethane	A	100.0	106.5	0.418837	0.4462239	0.1	6.5	20	
1,2-Dichloroethane	A	100.0	101.8	0.2920688	0.2972736		1.8	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	0201CC1E.D	Calibration Date:	10/12/10 08:07
Sequence:	1B03303	Injection Date:	02/01/11
Lab Sample ID:	1B03303-CCV1	Injection Time:	22:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	100.0	116.6	0.2047309	0.2386951		16.6	20	
cis-1,2-Dichloroethene	A	100.0	120.8	0.2539806	0.3066961		20.8	20	*
trans-1,2-Dichloroethene	A	100.0	117.0	0.237595	0.2780604		17.0	20	
1,2-Dichloropropane	A	100.0	107.3	0.2327228	0.2496337		7.3	20	
1,3-Dichloropropane	A	100.0	98.93	0.8731742	0.8638398		-1.1	20	
2,2-Dichloropropane	L	100.0	102.8	0.2849644	0.3015928		2.8	20	
1,1-Dichloropropene	A	100.0	111.7	0.2922463	0.3264567		11.7	20	
cis-1,3-Dichloropropene	A	100.0	112.4	0.3503386	0.3936087		12.4	20	
trans-1,3-Dichloropropene	L	100.0	106.5	0.7460596	0.8009269		6.5	20	
Ethylbenzene	A	100.0	104.0	2.209905	2.297585		4.0	20	
Hexachlorobutadiene	L	100.0	88.12	0.2639412	0.2413341		-11.9	20	
2-Hexanone	L	200.0	165.5	0.3733401	0.3630882		-17.2	20	
Isopropylbenzene	Q	100.0	96.89	1.746379	1.794452		-3.1	20	
p-Isopropyltoluene	A	100.0	81.96	1.410458	1.156088		-18.0	20	
Methylene chloride	A	100.0	110.2	0.2747203	0.3028675		10.2	20	
Naphthalene	L	100.0	87.39	1.293816	1.309961		-12.6	20	
4-Methyl-2-pentanone	A	200.0	198.7	0.2175995	0.2162367		-0.6	20	
Methyl t-Butyl Ether	A	100.0	119.4	0.5675005	0.6773268		19.4	20	
n-Propylbenzene	A	100.0	89.20	2.027251	1.808395		-10.8	20	
Styrene	A	100.0	110.6	1.398485	1.547286		10.6	20	
1,1,2,2-Tetrachloroethane	A	100.0	91.80	0.571341	0.5244715	0.3	-8.2	20	
1,1,1,2-Tetrachloroethane	A	100.0	101.1	0.5897171	0.5964048		1.1	20	
Tetrachloroethene	A	100.0	106.4	0.672589	0.7158591		6.4	20	
Toluene	A	100.0	95.86	1.332562	1.277421		-4.1	20	
1,2,3-Trichlorobenzene	A	100.0	103.7	0.5416388	0.5618359		3.7	20	
1,2,4-Trichlorobenzene	A	100.0	104.4	0.600548	0.6268601		4.4	20	
1,1,2-Trichloroethane	A	100.0	102.2	0.4671038	0.4774572		2.2	20	
1,1,1-Trichloroethane	A	100.0	107.8	0.3172406	0.342101		7.8	20	
Trichloroethene	A	100.0	107.1	0.2427317	0.2599798		7.1	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	0201CC1E.D	Calibration Date:	10/12/10 08:07
Sequence:	1B03303	Injection Date:	02/01/11
Lab Sample ID:	1B03303-CCV1	Injection Time:	22:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	104.6	0.3588331	0.3752152		4.6	20
1,2,3-Trichloropropane	A	100.0	100.1	0.1774321	0.1776437		0.1	20
1,3,5-Trimethylbenzene	A	100.0	90.30	1.387364	1.25287		-9.7	20
1,2,4-Trimethylbenzene	A	100.0	91.26	1.435102	1.309634		-8.7	20
Vinyl chloride	Q	100.0	83.61	0.1877522	0.148367		-16.4	20
m,p-Xylene	A	200.0	192.2	1.622775	1.559625		-3.9	20
o-Xylene	A	100.0	100.6	1.737591	1.747678		0.6	20
Bromofluorobenzene	A	30.00	34.01	0.8833723	1.001349		13.4	20
Dibromofluoromethane	A	30.00	30.81	0.3194396	0.328115		2.7	20
1,2-Dichloroethane-d4	A	30.00	32.41	6.155599E-02	6.650368E-02		8.0	20
Toluene-d8	A	30.00	28.93	2.302504	2.220643		-3.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	0201CC1.D	Calibration Date:	10/12/10 08:07
Sequence:	1B03305	Injection Date:	02/01/11
Lab Sample ID:	1B03305-CCV1	Injection Time:	10:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	200.0	302.1	7.811479E-02	0.1180065		51.1	20	*
Benzene	A	100.0	113.1	0.8358386	0.9455308		13.1	20	
Bromobenzene	A	100.0	99.05	0.648934	0.6427952		-0.9	20	
Bromochloromethane	L	100.0	109.9	0.1409376	0.1755005		9.9	20	
Bromodichloromethane	A	100.0	107.0	0.3122862	0.3341614		7.0	20	
Bromoform	A	100.0	119.8	0.520988	0.6244457	0.1	19.9	20	
Bromomethane	A	100.0	59.33	0.1808652	0.1073019		-40.7	20	*
n-Butylbenzene	A	100.0	91.96	1.237578	1.138118		-8.0	20	
2-Butanone	A	200.0	281.8	0.1098025	0.1547182		40.9	20	*
sec-Butylbenzene	A	100.0	91.39	1.685923	1.540795		-8.6	20	
tert-Butylbenzene	A	100.0	94.92	1.161811	1.10274		-5.1	20	
Carbon disulfide	A	100.0	108.8	0.7279408	0.7919365		8.8	20	
Carbon tetrachloride	A	100.0	102.3	0.2951898	0.3021207		2.3	20	
Chlorobenzene	A	100.0	95.96	1.543806	1.481413	0.3	-4.0	20	
Chloroethane	A	100.0	91.56	0.16213	0.1484522		-8.4	20	
Chloroform	A	100.0	103.0	0.4416533	0.4549984		3.0	20	
Chloromethane	A	100.0	79.53	0.2046249	0.1627316	0.1	-20.5	20	*
2-Chlorotoluene	A	100.0	93.66	1.335529	1.250919		-6.3	20	
4-Chlorotoluene	A	100.0	93.53	1.313181	1.22824		-6.5	20	
Dibromochloromethane	A	100.0	102.4	0.7153446	0.7323373		2.4	20	
1,2-Dibromo-3-chloropropane	L	100.0	102.7	0.1264341	0.1593174		2.7	20	
1,2-Dibromoethane (EDB)	A	100.0	106.4	0.6051969	0.6438711		6.4	20	
Dibromomethane	A	100.0	108.6	0.1760147	0.1910653		8.6	20	
1,2-Dichlorobenzene	A	100.0	101.8	1.008607	1.026313		1.8	20	
1,3-Dichlorobenzene	A	100.0	100.1	1.086699	1.088135		0.1	20	
1,4-Dichlorobenzene	A	100.0	83.62	1.243319	1.039712		-16.4	20	
Dichlorodifluoromethane	A	100.0	86.99	0.1891346	0.1645305		-13.0	20	
1,1-Dichloroethane	A	100.0	110.2	0.418837	0.4615625	0.1	10.2	20	
1,2-Dichloroethane	A	100.0	106.3	0.2920688	0.310434		6.3	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	0201CC1.D	Calibration Date:	10/12/10 08:07
Sequence:	1B03305	Injection Date:	02/01/11
Lab Sample ID:	1B03305-CCV1	Injection Time:	10:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	100.0	117.1	0.2047309	0.2397757		17.1	20	
cis-1,2-Dichloroethene	A	100.0	121.1	0.2539806	0.3075418		21.1	20	*
trans-1,2-Dichloroethene	A	100.0	119.8	0.237595	0.2845293		19.8	20	
1,2-Dichloropropane	A	100.0	105.5	0.2327228	0.24563		5.5	20	
1,3-Dichloropropane	A	100.0	98.59	0.8731742	0.8608988		-1.4	20	
2,2-Dichloropropane	L	100.0	120.6	0.2849644	0.3540856		20.6	20	*
1,1-Dichloropropene	A	100.0	114.0	0.2922463	0.3332699		14.0	20	
cis-1,3-Dichloropropene	A	100.0	118.8	0.3503386	0.416326		18.8	20	
trans-1,3-Dichloropropene	L	100.0	110.3	0.7460596	0.8295594		10.3	20	
Ethylbenzene	A	100.0	105.6	2.209905	2.333623		5.6	20	
Hexachlorobutadiene	L	100.0	91.32	0.2639412	0.2502564		-8.7	20	
2-Hexanone	L	200.0	197.1	0.3733401	0.4327347		-1.4	20	
Isopropylbenzene	Q	100.0	99.37	1.746379	1.83569		-0.6	20	
p-Isopropyltoluene	A	100.0	82.84	1.410458	1.168394		-17.2	20	
Methylene chloride	A	100.0	107.8	0.2747203	0.2962738		7.8	20	
Naphthalene	L	100.0	93.19	1.293816	1.39808		-6.8	20	
4-Methyl-2-pentanone	A	200.0	208.0	0.2175995	0.226306		4.0	20	
Methyl t-Butyl Ether	A	100.0	122.8	0.5675005	0.6967577		22.8	20	*
n-Propylbenzene	A	100.0	92.44	2.027251	1.87411		-7.6	20	
Styrene	A	100.0	115.6	1.398485	1.616452		15.6	20	
1,1,2,2-Tetrachloroethane	A	100.0	93.05	0.571341	0.5316136	0.3	-7.0	20	
1,1,1,2-Tetrachloroethane	A	100.0	101.6	0.5897171	0.5989947		1.6	20	
Tetrachloroethene	A	100.0	104.9	0.672589	0.705329		4.9	20	
Toluene	A	100.0	100.3	1.332562	1.336082		0.3	20	
1,2,3-Trichlorobenzene	A	100.0	111.9	0.5416388	0.6062879		11.9	20	
1,2,4-Trichlorobenzene	A	100.0	109.5	0.600548	0.6575517		9.5	20	
1,1,2-Trichloroethane	A	100.0	102.2	0.4671038	0.477563		2.2	20	
1,1,1-Trichloroethane	A	100.0	108.3	0.3172406	0.3435977		8.3	20	
Trichloroethene	A	100.0	106.7	0.2427317	0.2591071		6.7	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	0288001
Lab File ID:	0201CC1.D	Calibration Date:	10/12/10 08:07
Sequence:	1B03305	Injection Date:	02/01/11
Lab Sample ID:	1B03305-CCV1	Injection Time:	10:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	106.9	0.3588331	0.3835602		6.9	20
1,2,3-Trichloropropane	A	100.0	108.8	0.1774321	0.1931021		8.8	20
1,3,5-Trimethylbenzene	A	100.0	95.42	1.387364	1.323826		-4.6	20
1,2,4-Trimethylbenzene	A	100.0	99.72	1.435102	1.431097		-0.3	20
Vinyl chloride	Q	100.0	91.26	0.1877522	0.1575596		-8.7	20
m,p-Xylene	A	200.0	196.9	1.622775	1.597762		-1.5	20
o-Xylene	A	100.0	104.2	1.737591	1.811182		4.2	20
Bromofluorobenzene	A	30.00	35.01	0.8833723	1.030783		16.7	20
Dibromofluoromethane	A	30.00	31.36	0.3194396	0.333944		4.5	20
1,2-Dichloroethane-d4	A	30.00	32.48	6.155599E-02	0.0666522		8.3	20
Toluene-d8	A	30.00	30.71	2.302504	2.356789		2.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01007-BLK1 File ID: 0201BL1.D

Sampled: Prepared: Analyzed: 02/01/11 12:44

Solids: Preparation: 5030B Dilution:

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	X, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01007-BLK1 File ID: 0201BL1.D

Sampled: Prepared: Analyzed: 02/01/11 12:44

Solids: Preparation: 5030B Dilution:

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	X, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	35.53	118	75 - 120	
Dibromofluoromethane	30.00	29.18	97.3	85 - 115	
1,2-Dichloroethane-d4	30.00	31.69	106	70 - 120	
Toluene-d8	30.00	29.22	97.4	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01007-BS1 File ID: 0201LS1.D

Sampled: Prepared: Analyzed: 02/01/11 11:14

Solids: Preparation: 5030B Dilution:

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	94.3	2.50	5.00	10.0	X
71-43-2	Benzene	55.5	0.250	0.500	1.00	
108-86-1	Bromobenzene	50.6	0.250	0.500	1.00	
74-97-5	Bromochloromethane	52.4	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	56.6	0.250	0.500	1.00	
75-25-2	Bromoform	61.8	0.250	0.500	1.00	
74-83-9	Bromomethane	25.5	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	45.2	0.250	0.500	1.00	
78-93-3	2-Butanone	110	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	44.2	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	46.0	0.250	0.500	1.00	
75-15-0	Carbon disulfide	50.7	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	47.8	0.250	0.500	1.00	
108-90-7	Chlorobenzene	51.8	0.250	0.500	1.00	
75-00-3	Chloroethane	53.6	0.500	1.00	2.00	
67-66-3	Chloroform	50.0	0.250	0.500	1.00	
74-87-3	Chloromethane	41.0	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	46.5	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	52.7	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	52.8	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	50.8	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	53.9	0.250	0.500	1.00	
74-95-3	Dibromomethane	54.8	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	50.0	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	46.4	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	39.1	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	48.2	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	53.5	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	51.4	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	58.8	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	57.1	0.250	0.500	1.00	X
156-60-5	trans-1,2-Dichloroethene	58.3	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	52.5	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	49.7	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	54.1	0.250	0.500	1.00	X
563-58-6	1,1-Dichloropropene	52.2	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	55.2	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	59.3	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.8	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	49.1	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01007-BS1 File ID: 0201LS1.D

Sampled: Prepared: Analyzed: 02/01/11 11:14

Solids: Preparation: 5030B Dilution:

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	91.2	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	50.9	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	44.1	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.8	0.500	1.00	2.00	
91-20-3	Naphthalene	48.1	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	104	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	112	0.250	0.500	1.00	X
103-65-1	n-Propylbenzene	48.1	0.250	0.500	1.00	
100-42-5	Styrene	60.1	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	50.5	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	51.3	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	53.5	0.250	0.500	1.00	
108-88-3	Toluene	51.0	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	53.8	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	53.7	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.8	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	50.8	0.250	0.500	1.00	
79-01-6	Trichloroethene	53.7	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	48.7	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	50.9	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	50.2	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	49.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride	37.1	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	110	0.500	1.00	2.00	
95-47-6	o-Xylene	55.2	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	34.43	115	75 - 120	
Dibromofluoromethane	30.00	29.91	99.7	85 - 115	
1,2-Dichloroethane-d4	30.00	32.75	109	70 - 120	
Toluene-d8	30.00	30.16	101	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01007-BSD1 File ID: 0201LSD1.D

Sampled: Prepared: Analyzed: 02/01/11 21:39

Solids: Preparation: 5030B Dilution:

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	89.2	2.50	5.00	10.0	X
71-43-2	Benzene	54.8	0.250	0.500	1.00	
108-86-1	Bromobenzene	49.0	0.250	0.500	1.00	
74-97-5	Bromochloromethane	54.3	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	55.6	0.250	0.500	1.00	
75-25-2	Bromoform	62.7	0.250	0.500	1.00	
74-83-9	Bromomethane	20.4	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	44.1	0.250	0.500	1.00	
78-93-3	2-Butanone	113	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	43.8	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	45.3	0.250	0.500	1.00	
75-15-0	Carbon disulfide	52.1	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	50.1	0.250	0.500	1.00	
108-90-7	Chlorobenzene	52.8	0.250	0.500	1.00	
75-00-3	Chloroethane	48.7	0.500	1.00	2.00	
67-66-3	Chloroform	48.9	0.250	0.500	1.00	
74-87-3	Chloromethane	40.3	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	46.1	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	49.6	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	54.5	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	47.3	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	55.4	0.250	0.500	1.00	
74-95-3	Dibromomethane	54.2	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	47.6	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	51.8	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	42.0	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	47.4	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	52.6	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	49.6	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	61.9	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	56.8	0.250	0.500	1.00	X
156-60-5	trans-1,2-Dichloroethene	58.9	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	53.2	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	50.7	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	48.1	0.250	0.500	1.00	X
563-58-6	1,1-Dichloropropene	53.4	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	53.4	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	57.6	0.250	0.500	1.00	
100-41-4	Ethylbenzene	57.7	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	43.6	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01007-BSD1 File ID: 0201LSD1.D

Sampled: Prepared: Analyzed: 02/01/11 21:39

Solids: Preparation: 5030B Dilution:

Batch: 1B01007 Sequence: 1B03305 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	85.5	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	51.7	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	44.9	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.2	0.500	1.00	2.00	
91-20-3	Naphthalene	45.3	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	102	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	112	0.250	0.500	1.00	X
103-65-1	n-Propylbenzene	48.0	0.250	0.500	1.00	
100-42-5	Styrene	62.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	46.7	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	54.6	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	57.3	0.250	0.500	1.00	
108-88-3	Toluene	51.8	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	49.6	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	51.1	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.8	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	52.4	0.250	0.500	1.00	
79-01-6	Trichloroethene	54.1	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	52.2	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	52.0	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	47.2	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	47.8	0.250	0.500	1.00	
75-01-4	Vinyl chloride	38.6	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	110	0.500	1.00	2.00	
95-47-6	o-Xylene	55.2	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	34.85	116	75 - 120	
Dibromofluoromethane	30.00	30.35	101	85 - 115	
1,2-Dichloroethane-d4	30.00	31.56	105	70 - 120	
Toluene-d8	30.00	30.61	102	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01012-BLK1 File ID: 0201BL1E.D

Sampled: Prepared: Analyzed: 02/02/11 00:34

Solids: Preparation: 5030B Dilution:

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Y, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Y, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	X, U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01012-BLK1 File ID: 0201BL1E.D

Sampled: Prepared: Analyzed: 02/02/11 00:34

Solids: Preparation: 5030B Dilution:

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	35.00	117	75 - 120	
Dibromofluoromethane	30.00	31.40	105	85 - 115	
1,2-Dichloroethane-d4	30.00	33.41	111	70 - 120	
Toluene-d8	30.00	28.80	96.0	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01012-BS1 File ID: 0201LS1E.D

Sampled: Prepared: Analyzed: 02/01/11 23:07

Solids: Preparation: 5030B Dilution:

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	91.9	2.50	5.00	10.0	
71-43-2	Benzene	56.2	0.250	0.500	1.00	
108-86-1	Bromobenzene	50.6	0.250	0.500	1.00	
74-97-5	Bromochloromethane	54.7	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	56.6	0.250	0.500	1.00	
75-25-2	Bromoform	61.0	0.250	0.500	1.00	
74-83-9	Bromomethane	27.2	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	42.3	0.250	0.500	1.00	
78-93-3	2-Butanone	90.8	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	45.9	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	43.8	0.250	0.500	1.00	
75-15-0	Carbon disulfide	52.9	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	50.7	0.250	0.500	1.00	
108-90-7	Chlorobenzene	50.8	0.250	0.500	1.00	
75-00-3	Chloroethane	54.8	0.500	1.00	2.00	
67-66-3	Chloroform	50.1	0.250	0.500	1.00	
74-87-3	Chloromethane	38.2	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	44.5	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	49.7	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	54.2	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	45.5	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	54.3	0.250	0.500	1.00	
74-95-3	Dibromomethane	53.6	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	46.6	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.4	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	41.4	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	49.7	0.500	1.00	2.00	Y
75-34-3	1,1-Dichloroethane	52.8	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	50.9	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	61.7	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	57.9	0.250	0.500	1.00	X
156-60-5	trans-1,2-Dichloroethene	58.2	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	53.3	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	50.2	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	47.9	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	56.2	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	53.9	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	57.2	0.250	0.500	1.00	
100-41-4	Ethylbenzene	56.6	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	47.9	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01012-BS1 File ID: 0201LS1E.D

Sampled: Prepared: Analyzed: 02/01/11 23:07

Solids: Preparation: 5030B Dilution:

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	82.7	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	51.4	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	44.5	0.250	0.500	1.00	
75-09-2	Methylene chloride	54.7	0.500	1.00	2.00	
91-20-3	Naphthalene	43.1	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	95.5	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	112	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	46.8	0.250	0.500	1.00	
100-42-5	Styrene	60.3	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	44.5	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	54.0	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	57.3	0.250	0.500	1.00	
108-88-3	Toluene	50.6	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	48.9	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	48.4	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.5	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	52.3	0.250	0.500	1.00	
79-01-6	Trichloroethene	54.2	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	52.8	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	50.1	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	47.5	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	47.2	0.250	0.500	1.00	
75-01-4	Vinyl chloride	36.3	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	111	0.500	1.00	2.00	
95-47-6	o-Xylene	53.8	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	34.03	113	75 - 120	
Dibromofluoromethane	30.00	30.86	103	85 - 115	
1,2-Dichloroethane-d4	30.00	32.24	107	70 - 120	
Toluene-d8	30.00	30.89	103	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01012-BSD1 File ID: 0201LD1E.D

Sampled: Prepared: Analyzed: 02/02/11 09:23

Solids: Preparation: 5030B Dilution:

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	90.3	2.50	5.00	10.0	
71-43-2	Benzene	55.8	0.250	0.500	1.00	
108-86-1	Bromobenzene	51.1	0.250	0.500	1.00	
74-97-5	Bromochloromethane	54.6	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	57.4	0.250	0.500	1.00	
75-25-2	Bromoform	58.4	0.250	0.500	1.00	
74-83-9	Bromomethane	27.0	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	43.5	0.250	0.500	1.00	
78-93-3	2-Butanone	90.7	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	45.0	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	45.8	0.250	0.500	1.00	
75-15-0	Carbon disulfide	53.0	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	51.9	0.250	0.500	1.00	
108-90-7	Chlorobenzene	50.6	0.250	0.500	1.00	
75-00-3	Chloroethane	54.3	0.500	1.00	2.00	
67-66-3	Chloroform	50.7	0.250	0.500	1.00	
74-87-3	Chloromethane	41.7	0.250	0.500	1.00	Y
95-49-8	2-Chlorotoluene	48.8	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	51.1	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	52.6	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	46.9	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	55.2	0.250	0.500	1.00	
74-95-3	Dibromomethane	54.3	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	49.6	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	44.1	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	40.7	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	48.1	0.500	1.00	2.00	Y
75-34-3	1,1-Dichloroethane	53.3	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	51.9	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	61.9	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	55.7	0.250	0.500	1.00	X
156-60-5	trans-1,2-Dichloroethene	58.3	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.1	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	46.8	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	38.3	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	55.5	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	53.0	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	54.4	0.250	0.500	1.00	
100-41-4	Ethylbenzene	52.0	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	44.7	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B01012-BSD1 File ID: 0201LD1E.D

Sampled: Prepared: Analyzed: 02/02/11 09:23

Solids: Preparation: 5030B Dilution:

Batch: 1B01012 Sequence: 1B03303 Calibration: 0288001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	80.9	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	49.7	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	44.5	0.250	0.500	1.00	
75-09-2	Methylene chloride	54.4	0.500	1.00	2.00	
91-20-3	Naphthalene	46.2	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	99.9	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	111	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	45.9	0.250	0.500	1.00	
100-42-5	Styrene	57.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	47.2	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	52.9	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	53.2	0.250	0.500	1.00	
108-88-3	Toluene	48.7	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	50.0	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	50.4	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	47.5	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	54.0	0.250	0.500	1.00	
79-01-6	Trichloroethene	55.3	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	52.9	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	52.8	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	47.3	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	47.6	0.250	0.500	1.00	
75-01-4	Vinyl chloride	36.9	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	103	0.500	1.00	2.00	
95-47-6	o-Xylene	52.4	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	33.79	113	75 - 120	
Dibromofluoromethane	30.00	31.72	106	85 - 115	
1,2-Dichloroethane-d4	30.00	33.28	111	70 - 120	
Toluene-d8	30.00	28.97	96.6	85 - 120	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0001	01/25/11 12:57	01/26/11 08:45	02/01/11 00:00	N/A	14.00	02/01/11 15:43	7.12	14.00	
GW8001-TB	01/25/11 08:00	01/26/11 08:45	02/01/11 00:00	N/A	14.00	02/01/11 13:14	7.22	14.00	
GW0017	01/26/11 13:25	01/27/11 08:45	02/01/11 00:00	N/A	14.00	02/01/11 16:12	6.12	14.00	
GW0032	01/26/11 11:29	01/27/11 08:45	02/01/11 00:00	N/A	14.00	02/01/11 16:42	6.22	14.00	
GW8002-TB	01/26/11 08:00	01/27/11 08:45	02/01/11 00:00	N/A	14.00	02/01/11 14:14	6.26	14.00	
GW0002	01/27/11 14:45	01/28/11 08:30	02/01/11 14:32	N/A	14.00	02/02/11 07:54	5.71	14.00	
GW0003	01/27/11 12:56	01/28/11 08:30	02/01/11 14:32	N/A	14.00	02/02/11 08:23	5.81	14.00	
GW0004	01/27/11 10:10	01/28/11 08:30	02/01/11 14:32	N/A	14.00	02/02/11 08:53	5.95	14.00	
GW8003-TB	01/27/11 08:00	01/28/11 08:30	02/01/11 14:32	N/A	14.00	02/02/11 05:55	5.91	14.00	

Data for MODSW8015B (GRO) Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1A02805	Instrument:	GL-GCVOA2
Calibration:	1028002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1A02805-CAL1	003F0301.D	01/27/11 18:33
Cal Standard	1A02805-CAL2	004F0401.D	01/27/11 19:08
Cal Standard	1A02805-CAL3	005F0501.D	01/27/11 19:44
Cal Standard	1A02805-CAL4	006F0601.D	01/27/11 20:20
Cal Standard	1A02805-CAL5	007F0701.D	01/27/11 20:55
Cal Standard	1A02805-CAL6	008F0801.D	01/27/11 21:31
Initial Cal Check	1A02805-ICV1	009F0901.D	01/27/11 22:07

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1A02809
Instrument: GL-GCVOA2
Calibration: 1028002

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1A02809-CCV1	010F1001.D	01/27/11 22:43
Blank	1A27019-BLK1	011F1101.D	01/27/11 23:19
LCS	1A27019-BS1	012F1201.D	01/27/11 23:56
LCS Dup	1A27019-BSD1	013F1301.D	01/28/11 00:31
Calibration Check	1A02809-CCV2	022F2201.D	01/28/11 05:51
GW0001	1101162-01	032F3201.D	01/28/11 11:42
Calibration Check	1A02809-CCV3	033F3301.D	01/28/11 12:17
Blank	1A28012-BLK1	034F3501.D	01/28/11 13:29
LCS	1A28012-BS1	035F3601.D	01/28/11 14:05
LCS Dup	1A28012-BSD1	036F3701.D	01/28/11 14:40
GW0017	1101181-01	038F3901.D	01/28/11 15:50
GW0032	1101181-02	039F4001.D	01/28/11 16:25
GW0002	1101198-01	041F4201.D	01/28/11 17:35
GW0003	1101198-03	042F4301.D	01/28/11 18:10
GW0004	1101198-05	043F4401.D	01/28/11 18:45
GW0004	1A28012-MS1	044F4501.D	01/28/11 19:19
GW0004	1A28012-MSD1	045F4601.D	01/28/11 19:54
Calibration Check	1A02809-CCV4	046F4701.D	01/28/11 20:28

ANALYSIS DATA SHEET

GW0001

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101162-01	File ID:	032F3201.D
Sampled:	01/25/11 12:57	Prepared:	01/27/11 16:30	Analyzed:	01/28/11 11:42
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1A27019	Sequence:	1A02809	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.0741	0.0500	0.100	0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05432	109	50 - 150	

ANALYSIS DATA SHEET

GW0017

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-01	File ID:	038F3901.D
Sampled:	01/26/11 13:25	Prepared:	01/28/11 12:34	Analyzed:	01/28/11 15:50
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1A28012	Sequence:	1A02809	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05331	107	50 - 150	

ANALYSIS DATA SHEET

GW0032

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-02	File ID:	039F4001.D
Sampled:	01/26/11 11:29	Prepared:	01/28/11 12:34	Analyzed:	01/28/11 16:25
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1A28012	Sequence:	1A02809	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.101	0.0500	0.100	0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05299	106	50 - 150	

ANALYSIS DATA SHEET

GW0002

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-01	File ID:	041F4201.D
Sampled:	01/27/11 14:45	Prepared:	01/28/11 12:34	Analyzed:	01/28/11 17:35
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1A28012	Sequence:	1A02809	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05214	104	50 - 150	

ANALYSIS DATA SHEET

GW0003

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-03	File ID:	042F4301.D
Sampled:	01/27/11 12:56	Prepared:	01/28/11 12:34	Analyzed:	01/28/11 18:10
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1A28012	Sequence:	1A02809	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05230	105	50 - 150	

ANALYSIS DATA SHEET

GW0004

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-05	File ID:	043F4401.D
Sampled:	01/27/11 10:10	Prepared:	01/28/11 12:34	Analyzed:	01/28/11 18:45
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1A28012	Sequence:	1A02809	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05163	103	50 - 150	

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A27019	Laboratory ID:	1A27019-BS1
Preparation:	8015GRO	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.4952	99.0	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5910	118	17.6	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A28012	Laboratory ID:	1A28012-BS1
Preparation:	8015GRO	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5573	111	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5722	114	2.64	50	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B

GW0004

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

Batch: 1A28012

% Solids:

SDG: kirtland_001

Project: Kirtland AFB 2011

Source Sample Name: **1101198-05**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	ND	0.5332	107		50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5766	115	7.82		50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1A27019 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0001	1101162-01	01/27/11 16:30	5.00	5.00
Blank	1A27019-BLK1	01/27/11 16:30	5.00	5.00
LCS	1A27019-BS1	01/27/11 16:30	5.00	5.00
LCS Dup	1A27019-BSD1	01/27/11 16:30	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1A28012 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0017	1101181-01	01/28/11 12:34	5.00	5.00
GW0032	1101181-02	01/28/11 12:34	5.00	5.00
GW0002	1101198-01	01/28/11 12:34	5.00	5.00
GW0003	1101198-03	01/28/11 12:34	5.00	5.00
GW0004	1101198-05	01/28/11 12:34	5.00	5.00
Blank	1A28012-BLK1	01/28/11 12:34	5.00	5.00
LCS	1A28012-BS1	01/28/11 12:34	5.00	5.00
LCS Dup	1A28012-BSD1	01/28/11 12:34	5.00	5.00
GW0004	1A28012-MS1	01/28/11 12:34	5.00	5.00
GW0004	1A28012-MSD1	01/28/11 12:34	5.00	5.00

INITIAL CALIBRATION STANDARDS

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1A02805	Instrument:	GL-GCVOA2
Calibration:	1028002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11A0780	GRO Cal 0.1ppm	1A02805-CAL1	003F0301.D	01/27/11 18:33
11A0781	GRO Cal 0.2ppm	1A02805-CAL2	004F0401.D	01/27/11 19:08
11A0783	GRO Cal 0.5ppm	1A02805-CAL3	005F0501.D	01/27/11 19:44
11A0789	GRO Cal 1.0ppm	1A02805-CAL4	006F0601.D	01/27/11 20:20
11A0790	GRO Cal 2.0ppm	1A02805-CAL5	007F0701.D	01/27/11 20:55
11A0791	GRO Cal 5.0ppm	1A02805-CAL6	008F0801.D	01/27/11 21:31

INITIAL CALIBRATION DATA

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1028002	Instrument:	GL-GCVOA2
Matrix:	Water	Calibration Date:	1/27/2011 6:33:04PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Gasoline Range Organics (C6-C10	5	2516042	2	2730054	1	2493619	0.5	2526354	0.2	3408960	0.1	3753180
Bromofluorobenzene	0.5	1483418	0.2	1700855	0.1	1733590	0.05	1558880	0.02	1723950	0.01	1745400

INITIAL CALIBRATION DATA (Continued)

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1028002	Instrument:	GL-GCVOA2
Matrix:	Water	Calibration Date:	1/27/2011 6:33:04PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Gasoline Range Organics (C6-C10)	2904701	18.65348	7.287	1.259059E-02			20	
Bromofluorobenzene	1657682	6.599566	19.57967	2.614775E-02			20	

INITIAL CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	009F0901.D	Calibration Date:	01/27/11 18:33
Sequence:	1A02805	Injection Date:	01/27/11
Lab Sample ID:	1A02805-ICV1	Injection Time:	22:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5128	2904701	2979066		2.6	20
Bromofluorobenzene	A	0.05000	0.05836	1657682	1934860		16.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	010F1001.D	Calibration Date:	01/27/11 18:33
Sequence:	1A02809	Injection Date:	01/27/11
Lab Sample ID:	1A02809-CCV1	Injection Time:	22:43

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.4944	2904701	2871998		-1.1	20
Bromofluorobenzene	A	0.05000	0.05599	1657682	1856420		12.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	022F2201.D	Calibration Date:	01/27/11 18:33
Sequence:	1A02809	Injection Date:	01/28/11
Lab Sample ID:	1A02809-CCV2	Injection Time:	05:51

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.4607	2904701	2676680		-7.9	20
Bromofluorobenzene	A	0.05000	0.05482	1657682	1817640		9.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	033F3301.D	Calibration Date:	01/27/11 18:33
Sequence:	1A02809	Injection Date:	01/28/11
Lab Sample ID:	1A02809-CCV3	Injection Time:	12:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.4004	2904701	2326006		-19.9	20
Bromofluorobenzene	A	0.05000	0.05539	1657682	1836400		10.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	046F4701.D	Calibration Date:	01/27/11 18:33
Sequence:	1A02809	Injection Date:	01/28/11
Lab Sample ID:	1A02809-CCV4	Injection Time:	20:28

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5588	2904701	3246440		11.8	20
Bromofluorobenzene	A	0.05000	0.05516	1657682	1828740		10.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1A02809
Instrument: GL-GCVOA2
Calibration: 1028002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1A02809-CCV1) ug/mL				Lab File ID: 010F1001.D		Analyzed: 01/27/11 22:43		
Bromofluorobenzene	0.05000	112	80 - 120	19.573	19.573	0.0000	+/-0.210	
Blank (1A27019-BLK1) mg/L				Lab File ID: 011F1101.D		Analyzed: 01/27/11 23:19		
Bromofluorobenzene	0.05000	105	50 - 150	19.57	19.573	-0.0030	+/-0.210	
LCS (1A27019-BS1) mg/L				Lab File ID: 012F1201.D		Analyzed: 01/27/11 23:56		
Bromofluorobenzene	0.05000	112	50 - 150	19.563	19.573	-0.0100	+/-0.210	
LCS Dup (1A27019-BSD1) mg/L				Lab File ID: 013F1301.D		Analyzed: 01/28/11 00:31		
Bromofluorobenzene	0.05000	114	50 - 150	19.57	19.573	-0.0030	+/-0.210	
Calibration Check (1A02809-CCV2) ug/mL				Lab File ID: 022F2201.D		Analyzed: 01/28/11 05:51		
Bromofluorobenzene	0.05000	110	80 - 120	19.573	19.573	0.0000	+/-0.210	
GW0001 (1101162-01) mg/L				Lab File ID: 032F3201.D		Analyzed: 01/28/11 11:42		
Bromofluorobenzene	0.05000	109	50 - 150	19.573	19.573	0.0000	+/-0.210	
Calibration Check (1A02809-CCV3) ug/mL				Lab File ID: 033F3301.D		Analyzed: 01/28/11 12:17		
Bromofluorobenzene	0.05000	111	80 - 120	19.566	19.573	-0.0070	+/-0.210	
Blank (1A28012-BLK1) mg/L				Lab File ID: 034F3501.D		Analyzed: 01/28/11 13:29		
Bromofluorobenzene	0.05000	108	50 - 150	19.566	19.573	-0.0070	+/-0.210	
LCS (1A28012-BS1) mg/L				Lab File ID: 035F3601.D		Analyzed: 01/28/11 14:05		
Bromofluorobenzene	0.05000	112	50 - 150	19.566	19.573	-0.0070	+/-0.210	
LCS Dup (1A28012-BSD1) mg/L				Lab File ID: 036F3701.D		Analyzed: 01/28/11 14:40		
Bromofluorobenzene	0.05000	111	50 - 150	19.573	19.573	0.0000	+/-0.210	
GW0017 (1101181-01) mg/L				Lab File ID: 038F3901.D		Analyzed: 01/28/11 15:50		
Bromofluorobenzene	0.05000	107	50 - 150	19.57	19.573	-0.0030	+/-0.210	
GW0032 (1101181-02) mg/L				Lab File ID: 039F4001.D		Analyzed: 01/28/11 16:25		
Bromofluorobenzene	0.05000	106	50 - 150	19.58	19.573	0.0070	+/-0.210	
GW0002 (1101198-01) mg/L				Lab File ID: 041F4201.D		Analyzed: 01/28/11 17:35		
Bromofluorobenzene	0.05000	104	50 - 150	19.583	19.573	0.0100	+/-0.210	
GW0003 (1101198-03) mg/L				Lab File ID: 042F4301.D		Analyzed: 01/28/11 18:10		
Bromofluorobenzene	0.05000	105	50 - 150	19.583	19.573	0.0100	+/-0.210	
GW0004 (1101198-05) mg/L				Lab File ID: 043F4401.D		Analyzed: 01/28/11 18:45		
Bromofluorobenzene	0.05000	103	50 - 150	19.593	19.573	0.0200	+/-0.210	
Matrix Spike (1A28012-MS1) mg/L				Lab File ID: 044F4501.D		Analyzed: 01/28/11 19:19		
Bromofluorobenzene	0.05000	109	50 - 150	19.59	19.573	0.0170	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1A02809
Instrument: GL-GCVOA2
Calibration: 1028002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (1A28012-MSD1) mg/L				Lab File ID: 045F4601.D		Analyzed: 01/28/11 19:54		
Bromofluorobenzene	0.05000	107	50 - 150	19.596	19.573	0.0230	+/-0.210	
Calibration Check (1A02809-CCV4) ug/mL				Lab File ID: 046F4701.D		Analyzed: 01/28/11 20:28		
Bromofluorobenzene	0.05000	110	80 - 120	19.6	19.573	0.0270	+/-0.210	

HOLDING TIME SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0001	01/25/11 12:57	01/26/11 08:45	01/27/11 16:30	N/A	14.00	01/28/11 11:42	2.95	14.00	
GW0017	01/26/11 13:25	01/27/11 08:45	01/28/11 12:34	N/A	14.00	01/28/11 15:50	2.10	14.00	
GW0032	01/26/11 11:29	01/27/11 08:45	01/28/11 12:34	N/A	14.00	01/28/11 16:25	2.21	14.00	
GW0002	01/27/11 14:45	01/28/11 08:30	01/28/11 12:34	N/A	14.00	01/28/11 17:35	1.12	14.00	
GW0003	01/27/11 12:56	01/28/11 08:30	01/28/11 12:34	N/A	14.00	01/28/11 18:10	1.22	14.00	
GW0004	01/27/11 10:10	01/28/11 08:30	01/28/11 12:34	N/A	14.00	01/28/11 18:45	1.36	14.00	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1A27019-BLK1 File ID: 011F1101.D

Sampled: Prepared: Analyzed: 01/27/11 23:19

Solids: Preparation: 8015GRO Dilution:

Batch: 1A27019 Sequence: 1A02809 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05246	105	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1A27019-BS1 File ID: 012F1201.D

Sampled: Prepared: Analyzed: 01/27/11 23:56

Solids: Preparation: 8015GRO Dilution:

Batch: 1A27019 Sequence: 1A02809 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.4952	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05617	112	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1A27019-BSD1
File ID: 013F1301.D
Sampled:
Prepared:
Analyzed: 01/28/11 00:31
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1A27019
Sequence: 1A02809
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.5910	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05683	114	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1A28012-BLK1 File ID: 034F3501.D

Sampled: Prepared: Analyzed: 01/28/11 13:29

Solids: Preparation: 8015GRO Dilution:

Batch: 1A28012 Sequence: 1A02809 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05415	108	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1A28012-BS1
File ID: 035F3601.D
Sampled:
Prepared:
Analyzed: 01/28/11 14:05
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1A28012
Sequence: 1A02809
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.5573	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05577	112	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1A28012-BSD1
File ID: 036F3701.D
Sampled:
Prepared:
Analyzed: 01/28/11 14:40
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1A28012
Sequence: 1A02809
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.5722	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05561	111	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1A28012-MS1 File ID: 044F4501.D

Sampled: Prepared: Analyzed: 01/28/11 19:19

Solids: Preparation: 8015GRO Dilution:

Batch: 1A28012 Sequence: 1A02809 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.5332	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05441	109	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1A28012-MSD1 File ID: 045F4601.D

Sampled: Prepared: Analyzed: 01/28/11 19:54

Solids: Preparation: 8015GRO Dilution:

Batch: 1A28012 Sequence: 1A02809 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.5766	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05344	107	50 - 150	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Instrument: GL-GCVOA2

Analyte	MDL	MRL	Units	Method
Gasoline Range Organics (C6-C10)	0.0500	0.150	mg/L	SW8015B

Data for MODSW8015B (DRO) Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0L35504	Instrument:	GL-GCFID2
Calibration:	0355001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0L35504-CAL6	004F0401.D	12/18/10 17:50
Cal Standard	0L35504-CAL5	005F0501.D	12/18/10 18:39
Cal Standard	0L35504-CAL4	006F0601.D	12/18/10 19:12
Cal Standard	0L35504-CAL3	007F0701.D	12/18/10 19:46
Cal Standard	0L35504-CAL2	008F0801.D	12/18/10 20:19
Cal Standard	0L35504-CAL1	009F0901.D	12/18/10 20:53
Initial Cal Check	0L35504-ICV1	010F1001.D	12/18/10 21:26

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03204	Instrument:	GL-GCFID2
Calibration:	0355001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B03204-CCV1	003F0301.D	01/30/11 17:23
Calibration Check	1B03204-CCV3	026F2601.D	01/31/11 07:06
Blank	1A28007-BLK1	027F2701.D	01/31/11 07:39
LCS	1A28007-BS1	028F2801.D	01/31/11 08:12
LCS Dup	1A28007-BSD1	029F2901.D	01/31/11 08:45
GW0001	1101162-01	030F3001.D	01/31/11 09:18
GW0017	1101181-01	031F3101.D	01/31/11 09:51
GW0032	1101181-02	032F3201.D	01/31/11 10:24
GW0002	1101198-01	033F3301.D	01/31/11 12:08
GW0003	1101198-03	034F3401.D	01/31/11 12:41
GW0004	1101198-05	035F3501.D	01/31/11 13:14
Calibration Check	1B03204-CCV4	041F4101.D	01/31/11 16:32

ANALYSIS DATA SHEET

GW0001

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101162-01	File ID:	030F3001.D
Sampled:	01/25/11 12:57	Prepared:	01/28/11 13:55	Analyzed:	01/31/11 09:18
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1A28007	Sequence:	1B03204	Calibration:	0355001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.0980	0.0980	0.0980	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01658	84.6	30 - 140	

ANALYSIS DATA SHEET

GW0017

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-01	File ID:	031F3101.D
Sampled:	01/26/11 13:25	Prepared:	01/28/11 13:55	Analyzed:	01/31/11 09:51
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1A28007	Sequence:	1B03204	Calibration:	0355001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.0943	0.0943	0.0943	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01700	90.1	30 - 140	

ANALYSIS DATA SHEET

GW0032

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-02	File ID:	032F3201.D
Sampled:	01/26/11 11:29	Prepared:	01/28/11 13:55	Analyzed:	01/31/11 10:24
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1A28007	Sequence:	1B03204	Calibration:	0355001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.0962	0.0962	0.0962	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01820	94.6	30 - 140	

ANALYSIS DATA SHEET

GW0002

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-01	File ID:	033F3301.D
Sampled:	01/27/11 14:45	Prepared:	01/28/11 13:55	Analyzed:	01/31/11 12:08
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1A28007	Sequence:	1B03204	Calibration:	0355001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.0962	0.0962	0.0962	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01883	97.9	30 - 140	

ANALYSIS DATA SHEET

GW0003

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-03	File ID:	034F3401.D
Sampled:	01/27/11 12:56	Prepared:	01/28/11 13:55	Analyzed:	01/31/11 12:41
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1A28007	Sequence:	1B03204	Calibration:	0355001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.100	0.100	0.100	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01509	75.5	30 - 140	

ANALYSIS DATA SHEET

GW0004

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-05	File ID:	035F3501.D
Sampled:	01/27/11 10:10	Prepared:	01/28/11 13:55	Analyzed:	01/31/11 13:14
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1A28007	Sequence:	1B03204	Calibration:	0355001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.0980	0.0980	0.0980	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01666	85.0	30 - 140	

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A28007	Laboratory ID:	1A28007-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.7167	71.7	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.7426	74.3	3.55	50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1A28007 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0001	1101162-01	01/28/11 13:55	1,020.00	1.00
GW0017	1101181-01	01/28/11 13:55	1,060.00	1.00
GW0032	1101181-02	01/28/11 13:55	1,040.00	1.00
GW0002	1101198-01	01/28/11 13:55	1,040.00	1.00
GW0003	1101198-03	01/28/11 13:55	1,000.00	1.00
GW0004	1101198-05	01/28/11 13:55	1,020.00	1.00
Blank	1A28007-BLK1	01/28/11 13:55	1,000.00	1.00
LCS	1A28007-BS1	01/28/11 13:55	1,000.00	1.00
LCS Dup	1A28007-BSD1	01/28/11 13:55	1,000.00	1.00

INITIAL CALIBRATION STANDARDS

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0L35504	Instrument:	GL-GCFID2
Calibration:	0355001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10K0188	DRO ICAL6@100ppm	0L35504-CAL6	004F0401.D	12/18/10 17:50
10K0189	DRO ICAL5@250ppm	0L35504-CAL5	005F0501.D	12/18/10 18:39
10K0190	DRO ICAL4@500ppm	0L35504-CAL4	006F0601.D	12/18/10 19:12
10K0192	DRO ICAL3@1000ppm	0L35504-CAL3	007F0701.D	12/18/10 19:46
10K0193	DRO ICAL2@2500ppm	0L35504-CAL2	008F0801.D	12/18/10 20:19
10K0194	DRO ICAL1@5000ppm	0L35504-CAL1	009F0901.D	12/18/10 20:53

INITIAL CALIBRATION DATA

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0355001	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Date:	12/18/2010 5:50:23PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Diesel Range Organics (C10-C28)	100	2002.42	250	2054.808	500	2018.564	1000	2618.724	2500	2162.952	5000	1783.595
o-Terphenyl	5	2224.2	12.5	2325.28	25	2325.08	50	2438.14	125	2234.048	250	2209.376

INITIAL CALIBRATION DATA (Continued)

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0355001	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Date:	12/18/2010 5:50:23PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	2106.844	13.27416	4.747	2.033446E-02			20	
o-Terphenyl	2292.687	3.819306	8.5235	0.1052077			20	

INITIAL CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	0355001
Lab File ID:	010F1001.D	Calibration Date:	12/18/10 17:50
Sequence:	0L35504	Injection Date:	12/18/10
Lab Sample ID:	0L35504-ICV1	Injection Time:	21:26

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	984.4	2106.844	2074.064		-1.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	0355001
Lab File ID:	003F0301.D	Calibration Date:	12/18/10 17:50
Sequence:	1B03204	Injection Date:	01/30/11
Lab Sample ID:	1B03204-CCV1	Injection Time:	17:23

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1112	2106.844	2341.895		11.2	20
o-Terphenyl	A	50.00	50.72	2292.687	2325.84		1.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	0355001
Lab File ID:	026F2601.D	Calibration Date:	12/18/10 17:50
Sequence:	1B03204	Injection Date:	01/31/11
Lab Sample ID:	1B03204-CCV3	Injection Time:	07:06

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	958.8	2106.844	2020.129		-4.1	20
o-Terphenyl	A	50.00	58.59	2292.687	2686.52		17.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	0355001
Lab File ID:	041F4101.D	Calibration Date:	12/18/10 17:50
Sequence:	1B03204	Injection Date:	01/31/11
Lab Sample ID:	1B03204-CCV4	Injection Time:	16:32

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	929.4	2106.844	1958.045		-7.1	20
o-Terphenyl	A	50.00	52.46	2292.687	2405.54		4.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B03204
Instrument: GL-GCFID2
Calibration: 0355001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B03204-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 01/30/11 17:23		
o-Terphenyl	50.00	101	80 - 120	8.38	8.38	0.0000	+/-0.050	
Calibration Check (1B03204-CCV3) mg/L				Lab File ID: 026F2601.D		Analyzed: 01/31/11 07:06		
o-Terphenyl	50.00	117	80 - 120	8.383	8.38	0.0030	+/-0.050	
Blank (1A28007-BLK1) mg/L				Lab File ID: 027F2701.D		Analyzed: 01/31/11 07:39		
o-Terphenyl	0.02000	109	30 - 140	8.423	8.38	0.0430	+/-0.050	
LCS (1A28007-BS1) mg/L				Lab File ID: 028F2801.D		Analyzed: 01/31/11 08:12		
o-Terphenyl	0.02000	105	30 - 140	8.39	8.38	0.0100	+/-0.050	
LCS Dup (1A28007-BSD1) mg/L				Lab File ID: 029F2901.D		Analyzed: 01/31/11 08:45		
o-Terphenyl	0.02000	109	30 - 140	8.39	8.38	0.0100	+/-0.050	
GW0001 (1101162-01) mg/L				Lab File ID: 030F3001.D		Analyzed: 01/31/11 09:18		
o-Terphenyl	0.01961	84.6	30 - 140	8.443	8.38	0.0630	+/-0.050	*
GW0017 (1101181-01) mg/L				Lab File ID: 031F3101.D		Analyzed: 01/31/11 09:51		
o-Terphenyl	0.01887	90.1	30 - 140	8.456	8.38	0.0760	+/-0.050	*
GW0032 (1101181-02) mg/L				Lab File ID: 032F3201.D		Analyzed: 01/31/11 10:24		
o-Terphenyl	0.01923	94.6	30 - 140	8.46	8.38	0.0800	+/-0.050	*
GW0002 (1101198-01) mg/L				Lab File ID: 033F3301.D		Analyzed: 01/31/11 12:08		
o-Terphenyl	0.01923	97.9	30 - 140	8.483	8.38	0.1030	+/-0.050	*
GW0003 (1101198-03) mg/L				Lab File ID: 034F3401.D		Analyzed: 01/31/11 12:41		
o-Terphenyl	0.02000	75.5	30 - 140	8.51	8.38	0.1300	+/-0.050	*
GW0004 (1101198-05) mg/L				Lab File ID: 035F3501.D		Analyzed: 01/31/11 13:14		
o-Terphenyl	0.01961	85.0	30 - 140	8.496	8.38	0.1160	+/-0.050	*
Calibration Check (1B03204-CCV4) mg/L				Lab File ID: 041F4101.D		Analyzed: 01/31/11 16:32		
o-Terphenyl	50.00	105	80 - 120	8.386	8.38	0.0060	+/-0.050	

HOLDING TIME SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0001	01/25/11 12:57	01/26/11 08:45	01/28/11 13:55	3.04	7.00	01/31/11 09:18	2.81	40.00	
GW0017	01/26/11 13:25	01/27/11 08:45	01/28/11 13:55	2.02	7.00	01/31/11 09:51	2.83	40.00	
GW0032	01/26/11 11:29	01/27/11 08:45	01/28/11 13:55	2.10	7.00	01/31/11 10:24	2.85	40.00	
GW0002	01/27/11 14:45	01/28/11 08:30	01/28/11 13:55	0.97	7.00	01/31/11 12:08	2.93	40.00	
GW0003	01/27/11 12:56	01/28/11 08:30	01/28/11 13:55	1.04	7.00	01/31/11 12:41	2.95	40.00	
GW0004	01/27/11 10:10	01/28/11 08:30	01/28/11 13:55	1.16	7.00	01/31/11 13:14	2.97	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1A28007-BLK1 File ID: 027F2701.D

Sampled: Prepared: Analyzed: 01/31/11 07:39

Solids: Preparation: EXT_3510 Dilution:

Batch: 1A28007 Sequence: 1B03204 Calibration: 0355001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.100	0.100	0.100	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02174	109	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1A28007-BS1
File ID: 028F2801.D
Sampled:
Prepared:
Analyzed: 01/31/11 08:12
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1A28007
Sequence: 1B03204
Calibration: 0355001
Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)	0.7167	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02106	105	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1A28007-BSD1
File ID: 029F2901.D
Sampled:
Prepared:
Analyzed: 01/31/11 08:45
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1A28007
Sequence: 1B03204
Calibration: 0355001
Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)	0.7426	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02174	109	30 - 140	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_001

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** GL-GCFID2

Analyte	MDL	MRL	Units	Method
Diesel Range Organics (C10-C28)	0.100	0.100	mg/L	SW8015B

Data for SW8011 Forms

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 0L34409
Instrument: GL-ECD2
Calibration: 0344003

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0L34409-CAL1	002R0101.D	12/09/10 14:14
Cal Standard	0L34409-CAL1	002F0101.D	12/09/10 14:14
Cal Standard	0L34409-CAL2	003F0101.D	12/09/10 14:35
Cal Standard	0L34409-CAL2	003R0101.D	12/09/10 14:35
Cal Standard	0L34409-CAL3	004F0101.D	12/09/10 14:56
Cal Standard	0L34409-CAL3	004R0101.D	12/09/10 14:56
Cal Standard	0L34409-CAL4	005R0101.D	12/09/10 15:17
Cal Standard	0L34409-CAL4	005F0101.D	12/09/10 15:17
Cal Standard	0L34409-CAL5	006R0101.D	12/09/10 15:38
Cal Standard	0L34409-CAL5	006F0101.D	12/09/10 15:38
Cal Standard	0L34409-CAL6	007F0101.D	12/09/10 16:00
Cal Standard	0L34409-CAL6	007R0101.D	12/09/10 16:00
Cal Standard	0L34409-CAL7	008F0101.D	12/09/10 16:21
Cal Standard	0L34409-CAL7	008R0101.D	12/09/10 16:21
Cal Standard	0L34409-CAL8	009F0101.D	12/09/10 16:42
Cal Standard	0L34409-CAL8	009R0101.D	12/09/10 16:42
Initial Cal Check	0L34409-ICV1	010R0101.D	12/09/10 17:04
Initial Cal Check	0L34409-ICV1	010F0101.D	12/09/10 17:04

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04113	Instrument:	GL-ECD2
Calibration:	0344003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04113-CCV1	002R0101.D	02/07/11 14:16
Calibration Check	1B04113-CCV1	002F0101.D	02/07/11 14:16
LCS	1B07020-BS1	004R0101.D	02/07/11 15:08
LCS	1B07020-BS1	004F0101.D	02/07/11 15:08
LCS Dup	1B07020-BSD1	005F0101.D	02/07/11 15:24
LCS Dup	1B07020-BSD1	005R0101.D	02/07/11 15:24
Blank	1B07020-BLK1	006R0101.D	02/07/11 15:46
GW0001	1101162-01	007R0101.D	02/07/11 16:07
GW0001	1101162-01	007F0101.D	02/07/11 16:07
GW0017	1101181-01	008R0101.D	02/07/11 16:28
GW0032	1101181-02	009R0101.D	02/07/11 16:49
GW0002	1101198-01	010R0101.D	02/07/11 17:10
GW0003	1101198-03	011R0101.D	02/07/11 17:32
GW0004	1101198-05	012F0101.D	02/07/11 17:53
Calibration Check	1B04113-CCV2	017R0101.D	02/07/11 19:39
Calibration Check	1B04113-CCV2	017F0101.D	02/07/11 19:39

ANALYSIS DATA SHEET

GW0001

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101162-01	File ID:	007R0101.D
Sampled:	01/25/11 12:57	Prepared:	02/07/11 14:59	Analyzed:	02/07/11 16:07
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B07020	Sequence:	1B04113	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.0614	0.00983	0.0197	0.0295	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0017

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-01	File ID:	008R0101.D
Sampled:	01/26/11 13:25	Prepared:	02/07/11 14:59	Analyzed:	02/07/11 16:28
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B07020	Sequence:	1B04113	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00969	0.0194	0.0291	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0032

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101181-02	File ID:	009R0101.D
Sampled:	01/26/11 11:29	Prepared:	02/07/11 14:59	Analyzed:	02/07/11 16:49
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B07020	Sequence:	1B04113	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00976	0.0195	0.0293	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0002

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-01	File ID:	010R0101.D
Sampled:	01/27/11 14:45	Prepared:	02/07/11 14:59	Analyzed:	02/07/11 17:10
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B07020	Sequence:	1B04113	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00988	0.0198	0.0296	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0003

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-03	File ID:	011R0101.D
Sampled:	01/27/11 12:56	Prepared:	02/07/11 14:59	Analyzed:	02/07/11 17:32
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B07020	Sequence:	1B04113	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00968	0.0194	0.0290	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0004

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_001
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Waste Water	Laboratory ID:	1101198-05	File ID:	012F0101.D
Sampled:	01/27/11 10:10	Prepared:	02/07/11 14:59	Analyzed:	02/07/11 17:53
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B07020	Sequence:	1B04113	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00975	0.0195	0.0293	U

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B07020	Laboratory ID:	1B07020-BS1
Preparation:	EDB	Initial/Final:	35 mL / 35 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.5440	109	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5412	108	70 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.5078	102	6.88	20	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5629	113	3.93	20	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B07020 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0001	1101162-01	02/07/11 14:59	35.61	35.00
GW0017	1101181-01	02/07/11 14:59	36.11	35.00
GW0032	1101181-02	02/07/11 14:59	35.86	35.00
GW0002	1101198-01	02/07/11 14:59	35.42	35.00
GW0003	1101198-03	02/07/11 14:59	36.17	35.00
GW0004	1101198-05	02/07/11 14:59	35.88	35.00
Blank	1B07020-BLK1	02/07/11 14:59	35.00	35.00
LCS	1B07020-BS1	02/07/11 14:59	35.00	35.00
LCS Dup	1B07020-BSD1	02/07/11 14:59	35.00	35.00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B07020-BLK1 File ID: 006R0101.D

Sampled: Prepared: 02/07/11 14:59 Analyzed: 02/07/11 15:46

Solids: Preparation: EDB Dilution:

Batch: 1B07020 Sequence: 1B04113 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.0100	0.0200	0.0300	U

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0L34409	Instrument:	GL-ECD2
Calibration:	0344003		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10L0344	EDB ICAL 1 (0.03ppb)	0L34409-CAL1	002R0101.D	12/09/10 14:14
10L0344	EDB ICAL 1 (0.03ppb)	0L34409-CAL1	002F0101.D	12/09/10 14:14
10L0345	EDB ICAL 2 (0.05ppb)	0L34409-CAL2	003F0101.D	12/09/10 14:35
10L0345	EDB ICAL 2 (0.05ppb)	0L34409-CAL2	003R0101.D	12/09/10 14:35
10L0346	EDB ICAL 3 (0.10ppb)	0L34409-CAL3	004F0101.D	12/09/10 14:56
10L0346	EDB ICAL 3 (0.10ppb)	0L34409-CAL3	004R0101.D	12/09/10 14:56
10L0347	EDB ICAL 4 (0.15ppb)	0L34409-CAL4	005R0101.D	12/09/10 15:17
10L0347	EDB ICAL 4 (0.15ppb)	0L34409-CAL4	005F0101.D	12/09/10 15:17
10L0348	EDB ICAL 5 (0.20ppb)	0L34409-CAL5	006R0101.D	12/09/10 15:38
10L0348	EDB ICAL 5 (0.20ppb)	0L34409-CAL5	006F0101.D	12/09/10 15:38
10L0349	EDB ICAL 6 (0.40ppb)	0L34409-CAL6	007F0101.D	12/09/10 16:00
10L0349	EDB ICAL 6 (0.40ppb)	0L34409-CAL6	007R0101.D	12/09/10 16:00
10L0350	EDB ICAL 7 (0.50ppb)	0L34409-CAL7	008F0101.D	12/09/10 16:21
10L0350	EDB ICAL 7 (0.50ppb)	0L34409-CAL7	008R0101.D	12/09/10 16:21
10L0351	EDB ICAL 8 (1.00ppb)	0L34409-CAL8	009R0101.D	12/09/10 16:42
10L0351	EDB ICAL 8 (1.00ppb)	0L34409-CAL8	009F0101.D	12/09/10 16:42

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 12:00:04AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	1	14540	0.5	15516	0.4	15402.5	0.2	16590	0.15	15980	0.1	~~17600~~
1,2-Dibromoethane [2C]	1	29076	0.5	33560	0.4	33402.5	0.2	38785	0.15	37866.67	0.1	~~42050~~
1,2-Dibromo-3-chloropropane	1	24442	0.5	28986	0.4	28852.5	0.2	31650	0.15	31693.33	0.1	~~45080~~
1,2-Dibromo-3-chloropropane [2C]	1	69695	0.5	78930	0.4	76647.5	0.2	85730	0.15	88033.34	0.1	~~105450~~

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0344003
Instrument: GL-ECD2
Matrix: Water
Calibration Date: 12/9/2010 12:00:04AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	0.05	23100	0.03	21300								
1,2-Dibromoethane [2C]	0.05	45260	0.03	42333.33								
1,2-Dibromo-3-chloropropane	0.05	52760	0.03	51166.67								
1,2-Dibromo-3-chloropropane [2C]	0.05	155180	0.03	148933.3								

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 12:00:04AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	17489.79	18.96825	1.543	1.749237E-02		0.9996372	CCC ()	*
1,2-Dibromoethane [2C]	37183.36	15.05167	0.583	2.248094E-02		0.9995717	CCC ()	*
1,2-Dibromo-3-chloropropane	35650.07	32.01128	6.973	2.748517E-02		0.9987968	CCC ()	*
1,2-Dibromo-3-chloropropane [2C]	100449.9	35.64558	4.139286	5.910871E-02		0.9986728	CCC ()	*

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	010F0101.D	Calibration Date:	12/09/10 00:00
Sequence:	0L34409	Injection Date:	12/09/10
Lab Sample ID:	0L34409-ICV1	Injection Time:	17:04

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4746	17489.79	14620		-5.1	20
1,2-Dibromoethane [2C]	Q	0.5000	0.4584	37183.36	30824		-8.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	002F0101.D	Calibration Date:	12/09/10 00:00
Sequence:	1B04113	Injection Date:	02/07/11
Lab Sample ID:	1B04113-CCV1	Injection Time:	14:16

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5145	17489.79	15762		2.9	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5592	37183.36	36414		11.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	017F0101.D	Calibration Date:	12/09/10 00:00
Sequence:	1B04113	Injection Date:	02/07/11
Lab Sample ID:	1B04113-CCV2	Injection Time:	19:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5048	17489.79	15486		1.0	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5417	37183.36	35464		8.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

HOLDING TIME SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0001	01/25/11 12:57	01/26/11 08:45	02/07/11 14:59	13.08	14.00	02/07/11 16:07	0.05	14.00	
GW0017	01/26/11 13:25	01/27/11 08:45	02/07/11 14:59	12.07	14.00	02/07/11 16:28	0.06	14.00	
GW0032	01/26/11 11:29	01/27/11 08:45	02/07/11 14:59	12.15	14.00	02/07/11 16:49	0.08	14.00	
GW0002	01/27/11 14:45	01/28/11 08:30	02/07/11 14:59	11.01	14.00	02/07/11 17:10	0.09	14.00	
GW0003	01/27/11 12:56	01/28/11 08:30	02/07/11 14:59	11.09	14.00	02/07/11 17:32	0.11	14.00	
GW0004	01/27/11 10:10	01/28/11 08:30	02/07/11 14:59	11.20	14.00	02/07/11 17:53	0.12	14.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B07020-BS1
File ID: 004F0101.D
Sampled:
Prepared:
Analyzed: 02/07/11 15:08
Solids:
Preparation: EDB
Dilution:
Batch: 1B07020
Sequence: 1B04113
Calibration: 0344003
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5440	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B07020-BS1
File ID: 004R0101.D
Sampled:
Prepared:
Analyzed: 02/07/11 15:08
Solids:
Preparation: EDB
Dilution:
Batch: 1B07020
Sequence: 1B04113
Calibration: 0344003
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5412	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B07020-BSD1
File ID: 005F0101.D
Sampled:
Prepared:
Analyzed: 02/07/11 15:24
Solids:
Preparation: EDB
Dilution:
Batch: 1B07020
Sequence: 1B04113
Calibration: 0344003
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5078	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B07020-BSD1 File ID: 005R0101.D

Sampled: Prepared: Analyzed: 02/07/11 15:24

Solids: Preparation: EDB Dilution:

Batch: 1B07020 Sequence: 1B04113 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5629	0.0100	0.0200	0.0300	

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0001

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1101162-01 Date(s) Analyzed: 02/07/2011 02/07/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.0589	
	2	0.58	0.55	0.61	0.0614	4

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1B07020-BS1 Date(s) Analyzed: 02/07/2011 02/07/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.5440	
	2	0.58	0.55	0.61	0.5412	1

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1B07020-BSD1 Date(s) Analyzed: 02/07/2011 02/07/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.5078	
	2	0.58	0.55	0.61	0.5629	10

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_001

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** GL-ECD2

Analyte	MDL	MRL	Units	Method
1,2-Dibromoethane	0.0100	0.0300	ug/L	SW8011
1,2-Dibromoethane [2C]	0.0100	0.0300	ug/L	SW8011

Data for SW6010B Forms

ANALYSIS DATA SHEET

GW0001

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/25/11 12:57
% Solids: 0.00

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1101162-01
Received: 01/26/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	49600	1000	2000	5000	1		SW6010B	1A31008	02/02/11 16:07
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1A31008	02/02/11 16:07
7439-95-4	Magnesium	6960	1000	3000	5000	1		SW6010B	1A31008	02/02/11 16:07
7440-09-7	Potassium	2620	1000	3000	5000	1	J	SW6010B	1A31008	02/02/11 16:07
7440-23-5	Sodium	24100	1000	3000	5000	1		SW6010B	1A31008	02/02/11 16:07

ANALYSIS DATA SHEET

GW0001

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/25/11 12:57
% Solids: 0.00

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1101162-03
Received: 01/26/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	68.3	30.0	60.0	100	1	J	SW6010B	1A31008	02/02/11 16:12
7439-96-5	Manganese (dissolved)	199	3.00	6.00	15.0	1		SW6010B	1A31008	02/02/11 16:12

ANALYSIS DATA SHEET

GW0017

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/26/11 13:25
% Solids: 0.00

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1101181-01
Received: 01/27/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	34400	1000	2000	5000	1		SW6010B	1A31008	02/02/11 16:16
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1A31008	02/02/11 16:16
7439-95-4	Magnesium	4750	1000	3000	5000	1	J	SW6010B	1A31008	02/02/11 16:16
7440-09-7	Potassium	2200	1000	3000	5000	1	J	SW6010B	1A31008	02/02/11 16:16
7440-23-5	Sodium	20400	1000	3000	5000	1		SW6010B	1A31008	02/02/11 16:16

ANALYSIS DATA SHEET

GW0032

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/26/11 11:29
% Solids: 0.00

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1101181-02
Received: 01/27/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	61100	1000	2000	5000	1		SW6010B	1A31008	02/02/11 16:21
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1A31008	02/02/11 16:21
7439-95-4	Magnesium	8540	1000	3000	5000	1		SW6010B	1A31008	02/02/11 16:21
7440-09-7	Potassium	2870	1000	3000	5000	1	J	SW6010B	1A31008	02/02/11 16:21
7440-23-5	Sodium	27200	1000	3000	5000	1		SW6010B	1A31008	02/02/11 16:21

ANALYSIS DATA SHEET

GW0017

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/26/11 13:25
% Solids: 0.00

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1101181-04
Received: 01/27/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1A31008	02/02/11 16:26
7439-96-5	Manganese (dissolved)	168	3.00	6.00	15.0	1		SW6010B	1A31008	02/02/11 16:26

ANALYSIS DATA SHEET

GW0032

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/26/11 11:29
% Solids: 0.00

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1101181-05
Received: 01/27/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1A31008	02/02/11 16:30
7439-96-5	Manganese (dissolved)	63.7	3.00	6.00	15.0	1		SW6010B	1A31008	02/02/11 16:30

ANALYSIS DATA SHEET

GW0002

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Waste Water
Sampled: 01/27/11 14:45
% Solids: 0.00

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1101198-01
Received: 01/28/11 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	43700	1000	2000	5000	1		SW6010B	1A31008	02/02/11 17:02
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1A31008	02/02/11 17:02
7439-95-4	Magnesium	6150	1000	3000	5000	1		SW6010B	1A31008	02/02/11 17:02
7440-09-7	Potassium	2470	1000	3000	5000	1	J	SW6010B	1A31008	02/02/11 17:02
7440-23-5	Sodium	23200	1000	3000	5000	1		SW6010B	1A31008	02/02/11 17:02

ANALYSIS DATA SHEET

GW0002

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/27/11 14:45
% Solids: 0.00

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1101198-02
Received: 01/28/11 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1A31008	02/02/11 17:06
7439-96-5	Manganese (dissolved)	5.15	3.00	6.00	15.0	1	J	SW6010B	1A31008	02/02/11 17:06

ANALYSIS DATA SHEET

GW0003

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Waste Water
Sampled: 01/27/11 12:56
% Solids: 0.00

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1101198-03
Received: 01/28/11 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	103000	1000	2000	5000	1		SW6010B	1A31008	02/02/11 17:11
7439-92-1	Lead	5.21	1.50	3.00	3.00	1		SW6010B	1A31008	02/02/11 17:11
7439-95-4	Magnesium	14800	1000	3000	5000	1		SW6010B	1A31008	02/02/11 17:11
7440-09-7	Potassium	4440	1000	3000	5000	1	J	SW6010B	1A31008	02/02/11 17:11
7440-23-5	Sodium	49000	1000	3000	5000	1		SW6010B	1A31008	02/02/11 17:11

ANALYSIS DATA SHEET

GW0003

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/27/11 12:56
% Solids: 0.00

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1101198-04
Received: 01/28/11 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1A31008	02/02/11 17:15
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1A31008	02/02/11 17:15

ANALYSIS DATA SHEET

GW0004

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Waste Water
Sampled: 01/27/11 10:10
% Solids: 0.00

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1101198-05
Received: 01/28/11 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	62900	1000	2000	5000	1		SW6010B	1A31008	02/02/11 17:20
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1A31008	02/02/11 17:20
7439-95-4	Magnesium	8870	1000	3000	5000	1		SW6010B	1A31008	02/02/11 17:20
7440-09-7	Potassium	2930	1000	3000	5000	1	J	SW6010B	1A31008	02/02/11 17:20
7440-23-5	Sodium	26900	1000	3000	5000	1		SW6010B	1A31008	02/02/11 17:20

ANALYSIS DATA SHEET

GW0004

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/27/11 10:10
% Solids: 0.00

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1101198-06
Received: 01/28/11 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1A31008	02/02/11 17:43
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1A31008	02/02/11 17:43

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
SDG: kirtland_001
Project: Kirtland AFB 2011
Calibration: 1038003
Sequence: 1B03412

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B03412-ICV1	Calcium	50000	50650	101	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10250	102	ug/L	+/- 10.00%
	Lead	1000	1028	103	ug/L	+/- 10.00%
	Magnesium	50000	49250	98.5	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1015	102	ug/L	+/- 10.00%
	Potassium	10000	9245	92.5	ug/L	+/- 10.00%
	Sodium	50000	48780	97.6	ug/L	+/- 10.00%
1B03412-CCV1	Calcium	50000	51000	102	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10150	101	ug/L	+/- 10.00%
	Lead	1000	1011	101	ug/L	+/- 10.00%
	Magnesium	50000	48230	96.5	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1002	100	ug/L	+/- 10.00%
	Potassium	10000	9628	96.3	ug/L	+/- 10.00%
	Sodium	50000	46780	93.6	ug/L	+/- 10.00%
1B03412-CCV3	Calcium	50000	51660	103	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9459	94.6	ug/L	+/- 10.00%
	Lead	1000	968.9	96.9	ug/L	+/- 10.00%
	Magnesium	50000	48330	96.7	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1016	102	ug/L	+/- 10.00%
	Potassium	10000	9817	98.2	ug/L	+/- 10.00%
	Sodium	50000	47790	95.6	ug/L	+/- 10.00%
1B03412-CCV4	Calcium	50000	51110	102	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9286	92.9	ug/L	+/- 10.00%
	Lead	1000	942.6	94.3	ug/L	+/- 10.00%
	Magnesium	50000	47340	94.7	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	993.8	99.4	ug/L	+/- 10.00%
	Potassium	10000	9735	97.4	ug/L	+/- 10.00%
	Sodium	50000	46380	92.8	ug/L	+/- 10.00%
1B03412-CCV5	Calcium	50000	48780	97.6	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9116	91.2	ug/L	+/- 10.00%
	Lead	1000	938.9	93.9	ug/L	+/- 10.00%
	Magnesium	50000	46600	93.2	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	972.2	97.2	ug/L	+/- 10.00%
	Potassium	10000	9875	98.8	ug/L	+/- 10.00%
	Sodium	50000	48230	96.5	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1038003

Sequence: 1B03412

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B03412-CRL1	Calcium	2000	2047	102	ug/L	80 - 120
	Iron (dissolved)	60.00	62.78	105	ug/L	80 - 120
	Magnesium	3000	2864	95.5	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.419	107	ug/L	80 - 120
	Potassium	3000	2852	95.1	ug/L	80 - 120
	Sodium	3000	2869	95.6	ug/L	80 - 120
1B03412-CRL2	Lead	3.000	2.752	91.7	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1B03412
Calibration: 1038003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B03412-ICB1	Calcium	2.300	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.3139	30.0	100	ug/L	U	SW6010B
	Lead	-0.7428	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.940	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.05804	3.00	15.0	ug/L	U	SW6010B
	Potassium	-5.800	1000	5000	ug/L	U	SW6010B
	Sodium	-43.95	1000	5000	ug/L	U	SW6010B
1B03412-CCB1	Calcium	11.6	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	1.66	30.0	100	ug/L	U	SW6010B
	Lead	-0.589	1.50	3.00	ug/L	U	SW6010B
	Magnesium	15.0	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.177	3.00	15.0	ug/L	U	SW6010B
	Potassium	-1.64	1000	5000	ug/L	U	SW6010B
	Sodium	-44.5	1000	5000	ug/L	U	SW6010B
1B03412-CCB3	Calcium	35.6	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.684	30.0	100	ug/L	U	SW6010B
	Lead	-0.0769	1.50	3.00	ug/L	U	SW6010B
	Magnesium	15.5	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.176	3.00	15.0	ug/L	U	SW6010B
	Potassium	-1.19	1000	5000	ug/L	U	SW6010B
	Sodium	-54.1	1000	5000	ug/L	U	SW6010B
1A31008-BLK1	Calcium	22.6	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.0527	30.0	100	ug/L	U	SW6010B
	Lead	0.0488	1.50	3.00	ug/L	U	SW6010B
	Magnesium	7.66	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0722	3.00	15.0	ug/L	U	SW6010B
	Potassium	0.760	1000	5000	ug/L	U	SW6010B
	Sodium	-64.5	1000	5000	ug/L	U	SW6010B
1B03412-CCB4	Calcium	15.6	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.476	30.0	100	ug/L	U	SW6010B
	Lead	-0.433	1.50	3.00	ug/L	U	SW6010B
	Magnesium	14.1	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.376	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1B03412
Calibration: 1038003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B03412-CCB4	Potassium	-4.92	1000	5000	ug/L	U	SW6010B
	Sodium	-80.8	1000	5000	ug/L	U	SW6010B
1B03412-CCB5	Calcium	16.1	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-1.37	30.0	100	ug/L	U	SW6010B
	Lead	-1.01	1.50	3.00	ug/L	U	SW6010B
	Magnesium	16.5	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.141	3.00	15.0	ug/L	U	SW6010B
	Potassium	3.12	1000	5000	ug/L	U	SW6010B
	Sodium	-62.0	1000	5000	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1038003
Sequence: 1B03412

Lab Sample ID	Analyte	True	Found	%R	Units
1B03412-IFA1	Calcium	500000	497,370.00	99.5	ug/L
	Iron (dissolved)	200000	199,000.00	99.5	ug/L
	Lead		6.75		ug/L
	Magnesium	500000	495,050.00	99.0	ug/L
	Manganese (dissolved)		3.50		ug/L
	Potassium		-42.79		ug/L
	Sodium		3.83		ug/L
1B03412-IFB1	Calcium	500000	462,040.00	92.4	ug/L
	Iron (dissolved)	200000	184,640.00	92.3	ug/L
	Lead	50.00	53.95	108	ug/L
	Magnesium	500000	459,610.00	91.9	ug/L
	Manganese (dissolved)	500.0	437.42	87.5	ug/L
	Potassium		-22.95		ug/L
	Sodium		59.81		ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0004

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

Batch: 1A31008

% Solids:

SDG: kirtland_001

Project: Kirtland AFB 2011

Source Sample Name: **1101198-05**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Calcium	5000	62930	72900	199		80 - 120
Lead	250.0	ND	250.3	100		80 - 120
Magnesium	5000	8873	14130	105		80 - 120
Potassium	5000	2927	8086	103		80 - 120
Sodium	5000	26890	32970	122		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Calcium	5000	70370	149	3.53		20	80 - 120
Lead	250.0	246.4	98.6	1.54		20	80 - 120
Magnesium	5000	13790	98.3	2.43		20	80 - 120
Potassium	5000	7972	101	1.43		20	80 - 120
Sodium	5000	31980	102	3.04		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0004

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1A31008

% Solids:

Source Sample Name: **1101198-06**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Iron (dissolved)	1000	ND	968.8	96.9		80 - 120
Manganese (dissolved)	500.0	ND	494.3	98.9		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Iron (dissolved)	1000	962.1	96.2	0.692		20	80 - 120
Manganese (dissolved)	500.0	504.5	101	2.05		20	80 - 120

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010B

GW0004

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 1A31008-PS1
Batch: 1A31008
Lab Source ID: 1101198-05
Preparation: MET_3005A
Initial/Final: 20 mL / 20 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Calcium	68430	62930	5000	110	80 - 120
Lead	248.4	ND	250.0	99.7	80 - 120
Magnesium	13580	8873	5000	94.0	80 - 120
Potassium	8028	2927	5000	102	80 - 120
Sodium	31120	26890	5000	84.7	80 - 120

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010B

GW0004

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 1A31008-PS2
Batch: 1A31008
Lab Source ID: 1101198-06
Preparation: MET_3005A
Initial/Final: 20 mL / 20 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Iron (dissolved)	997.5	ND	1000	99.1	80 - 120
Manganese (dissolved)	505.7	ND	500.0	101	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A31008	Laboratory ID:	1A31008-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Calcium	5000	5232	105	80 - 120
Iron (dissolved)	1000	1018	102	80 - 120
Lead	250.0	256.1	102	80 - 120
Magnesium	5000	4877	97.5	80 - 120
Manganese (dissolved)	500.0	536.5	107	80 - 120
Potassium	5000	5152	103	80 - 120
Sodium	5000	5086	102	80 - 120

SERIAL DILUTION

SW6010B

GW0004

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 1B03412
Preparation: MET_3005A

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1A31008-DUP1
Lab Source ID: 1101198-05
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Calcium	62932	64410	2.35		SW6010B	10.00
Lead	ND	ND			SW6010B	10.00
Magnesium	8872.7	9004.5	1.49		SW6010B	10.00
Potassium	2926.6	ND			SW6010B	10.00
Sodium	26888	25455	-5.33		SW6010B	10.00

SERIAL DILUTION

SW6010B

GW0004

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 1B03412
Preparation: MET_3005A

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1A31008-DUP2
Lab Source ID: 1101198-06
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Iron (dissolved)	ND	ND			SW6010B	10.00
Manganese (dissolved)	ND	ND			SW6010B	10.00

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_001

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** ME-ICP

Analyte	MDL	MRL	Units	Method
Calcium	1000	5000	ug/L	SW6010B
Iron (dissolved)	30.0	100	ug/L	SW6010B
Lead	1.50	3.00	ug/L	SW6010B
Magnesium	1000	5000	ug/L	SW6010B
Manganese (dissolved)	3.00	15.0	ug/L	SW6010B
Potassium	1000	5000	ug/L	SW6010B
Sodium	1000	5000	ug/L	SW6010B

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_001

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_001

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		As	B	Ba	Be	Cd
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_001

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	K	Mn
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_001

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Mo	Na	Ni	Pb	Sb
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_001

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Se	Sn	Ti	Tl	V
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_001

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				

Comments:

FORM XA-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories, LLC

Client: Shaw E & I (I700) SDG: kirtland_001

Project: Kirtland AFB 2011

ICP Instrument ID: ME-ICP Date: 09/11/2009

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Calcium	15	500000	P
Calcium	15	500000	P
Calcium	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Lead	15	10000	P
Lead	15	10000	P
Lead	15	10000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Manganese	15	10000	P
Manganese	15	10000	P
Manganese	15	10000	P
Potassium	15	100000	P
Potassium	15	100000	P
Potassium	15	100000	P
Sodium	15	500000	P
Sodium	15	500000	P
Sodium	15	500000	P

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1A31008 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0001	1101162-01	01/31/11 08:32	50.00	50.00
GW0001	1101162-03	01/31/11 08:32	50.00	50.00
GW0017	1101181-01	01/31/11 08:32	50.00	50.00
GW0032	1101181-02	01/31/11 08:32	50.00	50.00
GW0017	1101181-04	01/31/11 08:32	50.00	50.00
GW0032	1101181-05	01/31/11 08:32	50.00	50.00
GW0002	1101198-01	01/31/11 08:32	50.00	50.00
GW0002	1101198-02	01/31/11 08:32	50.00	50.00
GW0003	1101198-03	01/31/11 08:32	50.00	50.00
GW0003	1101198-04	01/31/11 08:32	50.00	50.00
GW0004	1101198-05	01/31/11 08:32	50.00	50.00
GW0004	1101198-06	01/31/11 08:32	50.00	50.00
Blank	1A31008-BLK1	01/31/11 08:32	50.00	50.00
Blank	1A31008-BLK1	01/31/11 08:32	50.00	50.00
LCS	1A31008-BS1	01/31/11 08:32	50.00	50.00
LCS	1A31008-BS1	01/31/11 08:32	50.00	50.00
GW0004	1A31008-DUP1	01/31/11 08:32	50.00	50.00
GW0004	1A31008-DUP1	01/31/11 08:32	50.00	50.00
GW0004	1A31008-DUP2	01/31/11 08:32	50.00	50.00
GW0004	1A31008-DUP2	01/31/11 08:32	50.00	50.00
GW0004	1A31008-MS1	01/31/11 08:32	50.00	50.00
GW0004	1A31008-MS2	01/31/11 08:32	50.00	50.00
GW0004	1A31008-MSD1	01/31/11 08:32	50.00	50.00
GW0004	1A31008-MSD2	01/31/11 08:32	50.00	50.00
GW0004	1A31008-PS1	01/31/11 08:32	20.00	20.00
GW0004	1A31008-PS2	01/31/11 08:32	20.00	20.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03412	Instrument:	ME-ICP
Calibration:	1038003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B03412-CAL1	020211A-001	02/02/11 10:33
Cal Standard	1B03412-CAL1	020211A-001	02/02/11 10:33
Cal Standard	1B03412-CAL2	020211A-002	02/02/11 10:37
Cal Standard	1B03412-CAL2	020211A-002	02/02/11 10:37
Cal Standard	1B03412-CAL3	020211A-003	02/02/11 10:42
Cal Standard	1B03412-CAL3	020211A-003	02/02/11 10:42
Cal Standard	1B03412-CAL4	020211A-004	02/02/11 10:46
Cal Standard	1B03412-CAL5	020211A-005	02/02/11 10:52
Cal Standard	1B03412-CAL5	020211A-005	02/02/11 10:52
Cal Standard	1B03412-CAL6	020211A-006	02/02/11 10:58
Cal Standard	1B03412-CAL6	020211A-006	02/02/11 10:58
Cal Standard	1B03412-CAL7	020211A-007	02/02/11 11:04
Cal Standard	1B03412-CAL8	020211A-008	02/02/11 11:09
Initial Cal Check	1B03412-ICV1	020211B-001	02/02/11 11:42
Initial Cal Check	1B03412-ICV1	020211B-001	02/02/11 11:42
Initial Cal Blank	1B03412-ICB1	020211B-002	02/02/11 11:49
Initial Cal Blank	1B03412-ICB1	020211B-002	02/02/11 11:49
Instrument RL Check	1B03412-CRL1	020211B-003	02/02/11 11:54
Instrument RL Check	1B03412-CRL1	020211B-003	02/02/11 11:54
Instrument RL Check	1B03412-CRL2	020211B-007	02/02/11 12:12
Interference Check A	1B03412-IFA1	020211B-008	02/02/11 12:18
Interference Check A	1B03412-IFA1	020211B-008	02/02/11 12:18
Interference Check B	1B03412-IFB1	020211B-010	02/02/11 12:32
Interference Check B	1B03412-IFB1	020211B-010	02/02/11 12:32
Calibration Check	1B03412-CCV1	020211C-002	02/02/11 12:43
Calibration Check	1B03412-CCV1	020211C-002	02/02/11 12:43
Calibration Blank	1B03412-CCB1	020211C-003	02/02/11 12:51
Calibration Blank	1B03412-CCB1	020211C-003	02/02/11 12:51
Calibration Check	1B03412-CCV3	020211C-035	02/02/11 15:30
Calibration Check	1B03412-CCV3	020211C-035	02/02/11 15:30
Calibration Blank	1B03412-CCB3	020211C-036	02/02/11 15:37
Calibration Blank	1B03412-CCB3	020211C-036	02/02/11 15:37

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03412	Instrument:	ME-ICP
Calibration:	1038003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1A31008-BLK1	020211C-037	02/02/11 15:42
Blank	1A31008-BLK1	020211C-037	02/02/11 15:42
LCS	1A31008-BS1	020211C-038	02/02/11 15:47
LCS	1A31008-BS1	020211C-038	02/02/11 15:47
GW0001	1101162-01	020211C-042	02/02/11 16:07
GW0001	1101162-03	020211C-043	02/02/11 16:12
GW0017	1101181-01	020211C-044	02/02/11 16:16
GW0032	1101181-02	020211C-045	02/02/11 16:21
GW0017	1101181-04	020211C-046	02/02/11 16:26
GW0032	1101181-05	020211C-047	02/02/11 16:30
Calibration Check	1B03412-CCV4	020211C-049	02/02/11 16:40
Calibration Check	1B03412-CCV4	020211C-049	02/02/11 16:40
Calibration Blank	1B03412-CCB4	020211C-050	02/02/11 16:48
Calibration Blank	1B03412-CCB4	020211C-050	02/02/11 16:48
GW0002	1101198-01	020211C-053	02/02/11 17:02
GW0002	1101198-02	020211C-054	02/02/11 17:06
GW0003	1101198-03	020211C-055	02/02/11 17:11
GW0003	1101198-04	020211C-056	02/02/11 17:15
GW0004	1101198-05	020211C-057	02/02/11 17:20
GW0004	1A31008-MS1	020211C-058	02/02/11 17:24
GW0004	1A31008-MSD1	020211C-059	02/02/11 17:29
GW0004	1A31008-PS1	020211C-060	02/02/11 17:33
GW0004	1A31008-DUP1	020211C-061	02/02/11 17:39
GW0004	1A31008-DUP1	020211C-061	02/02/11 17:39
GW0004	1101198-06	020211C-062	02/02/11 17:43
GW0004	1A31008-MS2	020211C-063	02/02/11 17:48
GW0004	1A31008-MSD2	020211C-064	02/02/11 17:52
GW0004	1A31008-PS2	020211C-065	02/02/11 17:57
GW0004	1A31008-DUP2	020211C-066	02/02/11 18:02
GW0004	1A31008-DUP2	020211C-066	02/02/11 18:02
Calibration Check	1B03412-CCV5	020211C-068	02/02/11 18:12
Calibration Check	1B03412-CCV5	020211C-068	02/02/11 18:12

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03412	Instrument:	ME-ICP
Calibration:	1038003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Blank	1B03412-CCB5	020211C-069	02/02/11 18:20
Calibration Blank	1B03412-CCB5	020211C-069	02/02/11 18:20

INITIAL CALIBRATION DATA

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1038003
Instrument: ME-ICP
Matrix: Water
Calibration Date: 2/2/2011 11:53:52AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	1.9214E-05	10000	1.9739E-05			500000	1.97856E-05		
Antimony	0	0	100	0.0007929	1000	8.7006E-04					10000	8.2834E-04
Arsenic	0	0	100	0.0003596	1000	3.9755E-04					10000	3.8522E-04
Barium	0	0	50	0.0123402	1000	0.012194	5000	0.0120078				
Beryllium	0	0	100	0.0020016	1000	0.001977					10000	0.0019214
Boron	0	0	50	0.0000114	1000	1.216E-05					5000	1.169E-05
Cadmium	0	0	100	0.0099787	1000	0.010223					10000	0.0093927
Calcium	0	0	1100	2.894545E-05	50000	2.8614E-05					10000	
Chromium	0	0	100	0.0000254	1000	2.423E-05					10000	2.4137E-05
Cobalt	0	0	100	0.0055478	1000	0.0056488					10000	0.0055154
Copper	0	0	100	0.000088	1000	8.313E-05					10000	7.8744E-05
Iron	0	0	5100	1.170588E-05	10000	1.1436E-05			500000	1.10498E-05	10000	
Lead	0	0	100	0.0012625	1000	0.0012935					10000	0.0012551
Magnesium	0	0	5100		50000	1.3006E-06			500000	1.35612E-06	10000	
Manganese	0	0	100	0.0001841	1000	1.7769E-04	10000	1.7539E-04			10000	
Molybdenum	0	0	100	0.0043992	1000	0.0046929					10000	0.0045742
Nickel	0	0	100	0.0033679	1000	0.003407					10000	0.0033364
Potassium	0	0	1000	1.054E-05	10000	1.1379E-05						
Selenium	0	0	100	0.0004632	1000	0.0004832					10000	4.4911E-04
Silver	0	0	20	0.000048	500	4.712E-05	2000	4.7835E-05				
Sodium	0	0	1000		50000	4.565E-05						
Strontium	0	0	100	0.001609	1000	0.00158					10000	0.001544
Thallium	0	0	100	0.0008395	1000	0.0008703					10000	8.525699E-04
Tin	0	0	50	0.0011438	1000	0.0012271					5000	0.0012151
Titanium	0	0	100	0.0001883	1000	1.8518E-04					10000	1.8715E-04
Vanadium	0	0	100	0.0000364	1000	3.525E-05					10000	3.4837E-05
Zinc	0	0	100	0.0038816	1000	0.0040579					10000	0.0039503
Aluminum	0	0	5000	1.9214E-05	10000	1.9739E-05			500000	1.97856E-05		
Antimony	0	0	100	0.0007929	1000	8.7006E-04					10000	8.2834E-04
Arsenic	0	0	100	0.0003596	1000	3.9755E-04					10000	3.8522E-04
Barium	0	0	50	0.0123402	1000	0.012194	5000	0.0120078				

INITIAL CALIBRATION DATA

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1038003
Instrument: ME-ICP
Matrix: Water
Calibration Date: 2/2/2011 11:53:52AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium	0	0	100	0.0020016	1000	0.001977					10000	0.0019214
Boron	0	0	50	0.0000114	1000	1.216E-05					5000	1.169E-05
Cadmium	0	0	100	0.0099787	1000	0.010223					10000	0.0093927
Calcium	0	0	1100	2.894545E-05	50000	2.8614E-05					10000	
Chromium	0	0	100	0.0000254	1000	2.423E-05					10000	2.4137E-05
Cobalt	0	0	100	0.0055478	1000	0.0056488					10000	0.0055154
Copper	0	0	100	0.000088	1000	8.313E-05					10000	7.8744E-05
Iron	0	0	5100	1.170588E-05	10000	1.1436E-05			500000	1.10498E-05	10000	
Lead	0	0	100	0.0012625	1000	0.0012935					10000	0.0012551
Magnesium	0	0	5100		50000	1.3006E-06			500000	1.35612E-06	10000	
Manganese	0	0	100	0.0001841	1000	1.7769E-04	10000	1.7539E-04			10000	
Molybdenum	0	0	100	0.0043992	1000	0.0046929					10000	0.0045742
Nickel	0	0	100	0.0033679	1000	0.003407					10000	0.0033364
Potassium	0	0	1000	1.054E-05	10000	1.1379E-05						
Selenium	0	0	100	0.0004632	1000	0.0004832					10000	4.4911E-04
Silver	0	0	20	0.000048	500	4.712E-05	2000	4.7835E-05				
Sodium	0	0	1000		50000	4.565E-05						
Strontium	0	0	100	0.001609	1000	0.00158					10000	0.001544
Thallium	0	0	100	0.0008395	1000	0.0008703					10000	8.525699E-04
Tin	0	0	50	0.0011438	1000	0.0012271					5000	0.0012151
Titanium	0	0	100	0.0001883	1000	1.8518E-04					10000	1.8715E-04
Vanadium	0	0	100	0.0000364	1000	3.525E-05					10000	3.4837E-05
Zinc	0	0	100	0.0038816	1000	0.0040579					10000	0.0039503

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1038003
Instrument: ME-ICP
Matrix: Water
Calibration Date: 2/2/2011 11:53:52AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	2.8222E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.3412E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.1403E-05										
Selenium												
Silver												
Sodium	100000	4.4793E-05	500000	4.5962E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038003	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/2/2011 11:53:52AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	2.8222E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.3412E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.1403E-05										
Selenium												
Silver												
Sodium	100000	4.4793E-05	500000	4.5962E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038003	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/2/2011 11:53:52AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.468465E-05	66.69003	6.790918	183.8513	0.9999999		0.998	
Antimony	6.22825E-04	66.85866	3.958707	170.7603	0.9999712		0.998	
Arsenic	2.855925E-04	66.89601	16.38403	193.4206	0.999987		0.998	
Barium	0.0091355	66.6833	1.178765	157.0501	0.9999905		0.998	
Beryllium	0.001475	66.70545	8.330363	189.8158	0.9999925		0.998	
Boron	8.8125E-06	66.76131	7.595762	187.0754	0.9999287		0.998	
Cadmium	0.0073986	66.83277	0.4072075	128.8634	0.9999304		0.998	
Calcium	2.144536E-05	66.68094	1.01743	121.9973	0.9999982		0.998	
Chromium	1.844175E-05	66.73947	80.90271	198.2615	0.9999998		0.998	
Cobalt	0.004178	66.68053	3.134965	182.7572	0.9999944		0.998	
Copper	6.24685E-05	66.94079	1.08752	120.7005	0.9999772		0.998	
Iron	8.547921E-06	66.74103	2.084635	147.2073	0.9999996		0.998	
Lead	9.52775E-04	66.68952	10.32164	194.1261	0.9999909		0.998	
Magnesium	9.9948E-07	66.70798	16.63161	193.7735	0.9999852		0.998	
Manganese	1.34295E-04	66.72313	7.099268	190.4087	0.9999986		0.998	
Molybdenum	3.416575E-03	66.7601	4.954715	190.9753	0.9999922		0.998	
Nickel	2.527825E-03	66.67645	1.439345	171.5322	0.9999961		0.998	
Potassium	8.3305E-06	66.84047	3.10904	171.3044	0.9999998		0.998	
Selenium	3.488775E-04	66.7871	10.77715	193.0202	0.999947		0.998	
Silver	3.573875E-05	66.67523	9.565382	189.5152	0.9999832		0.998	
Sodium	3.410125E-05	66.68242	1.756465	81.79408	0.9999714		0.998	
Strontium	1.18325E-03	66.70452	7.248125	188.5907	0.9999952		0.998	
Thallium	6.405925E-04	66.69578	2.568265	165.1734	0.999995		0.998	
Tin	0.0008965	66.7927	7.950905	186.4179	0.999994		0.998	
Titanium	1.401575E-04	66.673	13.45015	195.6138	0.9999988		0.998	
Vanadium	2.662175E-05	66.71293	4.45613	178.986	0.9999991		0.998	
Zinc	2.97245E-03	66.71133	43.89862	199.1582	0.999992		0.998	
Aluminum	1.468465E-05	66.69003	6.790918	183.8513	0.9999999		0.998	
Antimony	6.22825E-04	66.85866	3.958707	170.7603	0.9999712		0.998	
Arsenic	2.855925E-04	66.89601	16.38403	193.4206	0.999987		0.998	
Barium	0.0091355	66.6833	1.178765	157.0501	0.9999905		0.998	
Beryllium	0.001475	66.70545	8.330363	189.8158	0.9999925		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038003	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/2/2011 11:53:52AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	8.8125E-06	66.76131	7.595762	187.0754	0.9999287		0.998	
Cadmium	0.0073986	66.83277	0.4072075	128.8634	0.9999304		0.998	
Calcium	2.144536E-05	66.68094	1.01743	121.9973	0.9999982		0.998	
Chromium	1.844175E-05	66.73947	80.90271	198.2615	0.9999998		0.998	
Cobalt	0.004178	66.68053	3.134965	182.7572	0.9999944		0.998	
Copper	6.24685E-05	66.94079	1.08752	120.7005	0.9999772		0.998	
Iron	8.547921E-06	66.74103	2.084635	147.2073	0.9999996		0.998	
Lead	9.52775E-04	66.68952	10.32164	194.1261	0.9999909		0.998	
Magnesium	9.9948E-07	66.70798	16.63161	193.7735	0.9999852		0.998	
Manganese	1.34295E-04	66.72313	7.099268	190.4087	0.9999986		0.998	
Molybdenum	3.416575E-03	66.7601	4.954715	190.9753	0.9999922		0.998	
Nickel	2.527825E-03	66.67645	1.439345	171.5322	0.9999961		0.998	
Potassium	8.3305E-06	66.84047	3.10904	171.3044	0.9999998		0.998	
Selenium	3.488775E-04	66.7871	10.77715	193.0202	0.999947		0.998	
Silver	3.573875E-05	66.67523	9.565382	189.5152	0.9999832		0.998	
Sodium	3.410125E-05	66.68242	1.756465	81.79408	0.9999714		0.998	
Strontium	1.18325E-03	66.70452	7.248125	188.5907	0.9999952		0.998	
Thallium	6.405925E-04	66.69578	2.568265	165.1734	0.999995		0.998	
Tin	0.0008965	66.7927	7.950905	186.4179	0.999994		0.998	
Titanium	1.401575E-04	66.673	13.45015	195.6138	0.9999988		0.998	
Vanadium	2.662175E-05	66.71293	4.45613	178.986	0.9999991		0.998	
Zinc	2.97245E-03	66.71133	43.89862	199.1582	0.999992		0.998	

Data for Wet Chemistry Forms

ANALYSIS DATA SHEET

GW0001

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/25/11 12:57
% Solids: 0.00

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1101162-01
Received: 01/26/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1A28005	01/31/11 16:30
18496-25-8	Sulfide		0.690	1.72	3.45	0.69	U	SM4500S2CF	1A31016	01/31/11 18:39
NA	Alkalinity, Bicarbonate (as CACO3)	147	1.00	1.00	1.00	1		SM2320B	1A31031	02/01/11 13:39
16887-00-6	Chloride	13.8	0.170	0.330	1.00	1	M	E300.0	1A26034	01/26/11 23:23
NA	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1A31031	02/01/11 13:39
14797-55-8	Nitrate as N	0.0460	0.0330	0.100	0.200	1	J	E300.0	1A26034	01/26/11 23:23
14808-79-8	Sulfate as SO4	33.6	0.330	1.00	2.00	1	X	E300.0	1A26034	01/26/11 23:23

ANALYSIS DATA SHEET

GW0017

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/26/11 13:25
% Solids: 0.00

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1101181-01
Received: 01/27/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B11026	02/11/11 15:28
18496-25-8	Sulfide		0.714	1.79	3.57	0.71	U	SM4500S2CF	1A31016	01/31/11 18:40
NA	Alkalinity, Bicarbonate (as CACO3)	104	1.00	1.00	1.00	1		SM2320B	1A31031	02/01/11 13:58
16887-00-6	Chloride	7.99	0.170	0.330	1.00	1	M	E300.0	1A27018	01/27/11 19:20
NA	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1A31031	02/01/11 13:58
14797-55-8	Nitrate as N	0.209	0.0330	0.100	0.200	1		E300.0	1A27018	01/27/11 19:20
14808-79-8	Sulfate as SO4	28.6	0.330	1.00	2.00	1		E300.0	1A27018	01/27/11 19:20

ANALYSIS DATA SHEET

GW0032

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/26/11 11:29
% Solids: 0.00

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1101181-02
Received: 01/27/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B11026	02/11/11 15:29
18496-25-8	Sulfide		0.690	1.72	3.45	0.68	U	SM4500S2CF	1A31016	01/31/11 18:40
NA	Alkalinity, Bicarbonate (as CACO3)	161	1.00	1.00	1.00	1	N	SM2320B	1A31031	02/01/11 14:12
16887-00-6	Chloride	26.7	0.170	0.330	1.00	1	M	E300.0	1A27018	01/27/11 19:38
NA	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1A31031	02/01/11 14:12
14797-55-8	Nitrate as N	0.0510	0.0330	0.100	0.200	1	J	E300.0	1A27018	01/27/11 19:38
14808-79-8	Sulfate as SO4	39.4	0.330	1.00	2.00	1		E300.0	1A27018	01/27/11 19:38

ANALYSIS DATA SHEET

GW0002

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Waste Water
Sampled: 01/27/11 14:45
% Solids: 0.00

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1101198-01
Received: 01/28/11 08:30

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	0.0596	0.0500	0.150	0.200	1	J	SM4500NH3BG	1B15018	02/15/11 16:32
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U	SM4500S2CF	1B03408	02/03/11 17:46
NA	Alkalinity, Bicarbonate (as CACO3)	116	1.00	1.00	1.00	1		SM2320B	1B02021	02/03/11 13:10
16887-00-6	Chloride	17.9	0.170	0.330	1.00	1	M	E300.0	1A28010	01/28/11 15:04
NA	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B02021	02/03/11 13:10
14797-55-8	Nitrate as N	0.639	0.0330	0.100	0.200	1		E300.0	1A28010	01/28/11 15:04
14808-79-8	Sulfate as SO4	42.0	0.330	1.00	2.00	1		E300.0	1A28010	01/28/11 15:04

ANALYSIS DATA SHEET

GW0003

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Waste Water
Sampled: 01/27/11 12:56
% Solids: 0.00

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1101198-03
Received: 01/28/11 08:30

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.0500	0.150	0.200	1	U	SM4500NH3BG	1B15018	02/15/11 16:33
18496-25-8	Sulfide		0.727	1.82	3.64	0.73	U	SM4500S2CF	1B03408	02/03/11 17:47
NA	Alkalinity, Bicarbonate (as CACO3)	85.8	1.00	1.00	1.00	1		SM2320B	1B02021	02/03/11 13:30
16887-00-6	Chloride	106	0.170	0.330	1.00	1	M	E300.0	1A28010	01/28/11 16:14
NA	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B02021	02/03/11 13:30
14797-55-8	Nitrate as N	3.46	0.0330	0.100	0.200	1		E300.0	1A28010	01/28/11 16:14
14808-79-8	Sulfate as SO4	177	0.330	1.00	2.00	1		E300.0	1A28010	01/28/11 16:14

ANALYSIS DATA SHEET

GW0004

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Waste Water
Sampled: 01/27/11 10:10
% Solids: 0.00

SDG: kirtland_001
Project: Kirtland AFB 2011
Laboratory ID: 1101198-05
Received: 01/28/11 08:30

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.0500	0.150	0.200	1	U	SM4500NH3BG	1B15018	02/15/11 16:34
18496-25-8	Sulfide		0.702	1.75	3.51	0.7	U	SM4500S2CF	1B03408	02/03/11 17:47
NA	Alkalinity, Bicarbonate (as CACO3)	93.1	1.00	1.00	1.00	1		SM2320B	1B02021	02/03/11 13:39
16887-00-6	Chloride	47.1	0.170	0.330	1.00	1	M	E300.0	1A28010	01/28/11 16:31
NA	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B02021	02/03/11 13:39
14797-55-8	Nitrate as N	3.03	0.0330	0.100	0.200	1		E300.0	1A28010	01/28/11 16:31
14808-79-8	Sulfate as SO4	96.2	0.330	1.00	2.00	1		E300.0	1A28010	01/28/11 16:31

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_001
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 0J29503

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
0J29503-ICV1	Chloride	4.800	4.639	96.6	mg/L	+/- 10.00%
	Nitrate as N	3.616	3.531	97.6	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	23.53	98.0	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: kirtland_001
Project: Kirtland AFB 2011
Calibration: 1031002
Sequence: 1A03116

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1A03116-ICV1	Ammonia as N	2.000	2.179	109	mg/L	+/- 10.00%
1A03116-CCV1	Ammonia as N	2.000	2.191	110	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_001
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1A03120

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1A03120-CCV1	Chloride	25.00	26.68	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.602	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.60	106	mg/L	+/- 10.00%
1A03120-CCV2	Chloride	25.00	26.63	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.586	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	27.26	109	mg/L	+/- 10.00%
1A03120-CCV3	Chloride	25.00	26.48	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.553	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.66	107	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_001
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B03813

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B03813-CCV1	Chloride	25.00	26.51	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.563	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.38	106	mg/L	+/- 10.00%
1B03813-CCV2	Chloride	25.00	26.48	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.552	102	mg/L	+/- 10.00%
	Sulfate as SO4	**25.00**	**27.71**	**111**	**mg/L**	+/- 10.00%
1B03813-CCV3	Chloride	25.00	26.50	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.567	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.22	105	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: kirtland_001
Project: Kirtland AFB 2011
Calibration: 1042002
Sequence: 1B04215

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04215-ICV1	Ammonia as N	2.000	2.148	107	mg/L	+/- 10.00%
1B04215-CCV1	Ammonia as N	2.000	2.136	107	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_001
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B04612

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04612-CCV1	Chloride	25.00	26.70	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.596	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.70	107	mg/L	+/- 10.00%
1B04612-CCV2	Chloride	25.00	26.96	108	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.607	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.61	106	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: kirtland_001
Project: Kirtland AFB 2011
Calibration: 1046003
Sequence: 1B04620

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04620-ICV1	Ammonia as N	2.000	2.187	109	mg/L	+/- 10.00%
1B04620-CCV1	Ammonia as N	2.000	2.173	109	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 0J29503

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
0J29503-CRL2	Chloride	1.000	0.8730	87.3	mg/L	75 - 125
	Nitrate as N	0.1000	0.09500	95.0	mg/L	75 - 125
	Sulfate as SO4	1.000	1.023	102	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 1A03120

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1A03120-CRL1	Chloride	1.000	0.9280	92.8	mg/L	75 - 125
	Nitrate as N	0.1000	0.09600	96.0	mg/L	75 - 125
1A03120-CRL2	Sulfate as SO4	1.000	1.241	124	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 1B03813

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B03813-CRL1	Chloride	1.000	0.8970	89.7	mg/L	75 - 125
	Nitrate as N	0.1000	0.09600	96.0	mg/L	75 - 125
	Sulfate as SO4	1.000	1.068	107	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 1B04612

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B04612-CRL1	Chloride	1.000	0.8940	89.4	mg/L	75 - 125
	Nitrate as N	0.1000	0.09600	96.0	mg/L	75 - 125
	Sulfate as SO4	1.000	1.093	109	mg/L	75 - 125

METHOD BLANKS

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1A26034

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1A26034-BLK1	Chloride	0.362	0.170	0.500	mg/L	J	E300.0
	Nitrate as N	0.0180	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0900	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1A27018

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1A27018-BLK1	Chloride	-0.0660	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1A28005

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1A28005-BLK1	Ammonia as N	-0.00255	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1A28010

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1A28010-BLK1	Chloride	-0.104	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1A31016

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1A31016-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1A31031

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1A31031-BLK1	Alkalinity, Total (as CACO3)	-0.817	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B02021

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B02021-BLK1	Alkalinity, Total (as CACO3)	0.817	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B03408

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B03408-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B11026

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B11026-BLK1	Ammonia as N	0.0242	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B15018

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B15018-BLK1	Ammonia as N	0.00242	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 0J29503
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
0J29503-ICB1	Chloride	0.01700	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.000	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.08000	0.330	2.00	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1A03116
Calibration: 1031002
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1A03116-ICB1	Ammonia as N	-0.01020	0.110	0.300	mg/L	U	SM4500NH3BG
1A03116-CCB1	Ammonia as N	-0.0168	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1A03120
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1A03120-CCB1	Chloride	-0.100	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1A03120-CCB2	Chloride	-0.0310	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.130	0.330	2.00	mg/L	U	E300.0
1A03120-CCB3	Chloride	-0.0810	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B03813
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B03813-CCB1	Chloride	0.354	0.170	0.500	mg/L	J	E300.0
	Nitrate as N	0.0180	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0900	0.330	2.00	mg/L	U	E300.0
1B03813-CCB2	Chloride	0.351	0.170	0.500	mg/L	J	E300.0
	Nitrate as N	0.0180	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.179	0.330	2.00	mg/L	U	E300.0
1B03813-CCB3	Chloride	0.366	0.170	0.500	mg/L	J	E300.0
	Nitrate as N	0.0190	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0980	0.330	2.00	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04215
Calibration: 1042002
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04215-ICB1	Ammonia as N	-0.01917	0.110	0.300	mg/L	U	SM4500NH3BG
1B04215-CCB1	Ammonia as N	-0.0186	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04612
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04612-CCB1	Chloride	-0.0680	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1B04612-CCB2	Chloride	-0.0610	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04620
Calibration: 1046003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04620-ICB1	Ammonia as N	-0.01197	0.110	0.300	mg/L	U	SM4500NH3BG
1B04620-CCB1	Ammonia as N	-0.0142	0.110	0.300	mg/L	U	SM4500NH3BG

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0002

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

Batch: 1A28010

% Solids:

SDG: kirtland_001

Project: Kirtland AFB 2011

Source Sample Name: **1101198-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	17.89	44.99	97.6		80 - 120
Nitrate as N	2.778	0.6390	3.276	94.9		80 - 120
Sulfate as SO4	27.78	41.97	68.69	96.2		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	47.36	106	5.13		20	80 - 120
Nitrate as N	2.778	3.504	103	6.75		20	80 - 120
Sulfate as SO4	27.78	70.74	104	2.93		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0032

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1A31031

% Solids:

Source Sample Name: **1101181-02**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	160.9	326.8	149	N	75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	325.9	148	0.278	N	20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0032

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B11026

% Solids:

Source Sample Name: **1101181-02**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Ammonia as N	5.000	ND	4.828	96.6		75 - 125

DUPLICATES

GW0002

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 1A28010-DUP1
Batch: 1A28010
Lab Source ID: 1101198-01
Preparation: WC_PREP_ANIONS_W
Initial/Final: 5 mL / 5 mL
Source Sample Name: GW0002
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	17.9	17.86	0.134		E300.0
Nitrate as N	20	0.639	0.6400	0.156		E300.0
Sulfate as SO4	20	42.0	41.98	0.0119		E300.0

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A26034	Laboratory ID:	1A26034-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.950	103	90 - 110
Nitrate as N	3.616	3.685	102	90 - 110
Sulfate as SO4	24.00	25.50	106	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A27018	Laboratory ID:	1A27018-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.963	103	90 - 110
Nitrate as N	3.616	3.694	102	90 - 110
Sulfate as SO4	24.00	25.38	106	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A28005	Laboratory ID:	1A28005-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	4.914	98.3	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A28010	Laboratory ID:	1A28010-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.960	103	90 - 110
Nitrate as N	3.616	3.687	102	90 - 110
Sulfate as SO4	24.00	25.35	106	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A31016	Laboratory ID:	1A31016-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1413	1150	81.4	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1413	1133	80.2	1.50	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A31031	Laboratory ID:	1A31031-BS1
Preparation:	pNone	Initial/Final:	5 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	1000	1044	104	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B02021	Laboratory ID:	1B02021-BS1
Preparation:	pNone	Initial/Final:	5 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	1000	1048	105	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B03408	Laboratory ID:	1B03408-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1413	1150	81.4	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1413	1133	80.2	1.46	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B11026	Laboratory ID:	1B11026-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	4.903	98.1	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15018	Laboratory ID:	1B15018-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	5.094	102	80 - 120

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_001

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:**

Analyte	MDL	MRL	Units	Method
Alkalinity, Bicarbonate (as CACO3)	1.00	1.00	mg/L	SM2320B
Alkalinity, Carbonate (as CACO3)	1.00	1.00	mg/L	SM2320B
Sulfide	0.800	4.00	mg/L	SM4500S2CF

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_001

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** WC-IC

Analyte	MDL	MRL	Units	Method
Chloride	0.170	0.500	mg/L	E300.0
Nitrate as N	0.0330	0.200	mg/L	E300.0
Sulfate as SO4	0.330	2.00	mg/L	E300.0

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_001

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** WC-Lachat

Analyte	MDL	MRL	Units	Method
Ammonia as N	0.110	0.300	mg/L	SM4500NH3BG

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1A26034 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0001	1101162-01	01/26/11 17:51	5.00	5.00
GW0001	1101162-01	01/26/11 17:51	5.00	5.00
Blank	1A26034-BLK1	01/26/11 17:51	5.00	5.00
LCS	1A26034-BS1	01/26/11 17:51	5.00	5.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1A27018 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0017	1101181-01	01/27/11 15:58	5.00	5.00
GW0017	1101181-01	01/27/11 15:58	5.00	5.00
GW0032	1101181-02	01/27/11 15:58	5.00	5.00
GW0032	1101181-02	01/27/11 15:58	5.00	5.00
Blank	1A27018-BLK1	01/27/11 15:58	5.00	5.00
LCS	1A27018-BS1	01/27/11 15:58	5.00	5.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1A28005 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0001	1101162-01	01/28/11 09:19	100.00	100.00
Blank	1A28005-BLK1	01/28/11 09:19	100.00	100.00
LCS	1A28005-BS1	01/28/11 09:19	100.00	100.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1A28010 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0002	1101198-01	01/28/11 10:30	5.00	5.00
GW0002	1101198-01	01/28/11 10:30	5.00	5.00
GW0003	1101198-03	01/28/11 10:30	5.00	5.00
GW0003	1101198-03	01/28/11 10:30	5.00	5.00
GW0004	1101198-05	01/28/11 10:30	5.00	5.00
GW0004	1101198-05	01/28/11 10:30	5.00	5.00
Blank	1A28010-BLK1	01/28/11 10:30	5.00	5.00
LCS	1A28010-BS1	01/28/11 10:30	5.00	5.00
GW0002	1A28010-DUP1	01/28/11 10:30	5.00	5.00
GW0002	1A28010-MS1	01/28/11 10:30	22.50	25.00
GW0002	1A28010-MSD1	01/28/11 10:30	22.50	25.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1A31016 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0001	1101162-01	01/31/11 12:57	290.00	200.00
GW0017	1101181-01	01/31/11 12:57	280.00	200.00
GW0032	1101181-02	01/31/11 12:57	290.00	200.00
Blank	1A31016-BLK1	01/31/11 12:57	250.00	200.00
LCS	1A31016-BS1	01/31/11 12:57	3.00	250.00
LCS Dup	1A31016-BSD1	01/31/11 12:57	3.00	250.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1A31031 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0001	1101162-01	02/01/11 08:30	25.00	25.00
GW0017	1101181-01	02/01/11 08:30	25.00	25.00
GW0032	1101181-02	02/01/11 08:30	25.00	25.00
Blank	1A31031-BLK1	02/01/11 08:30	25.00	25.00
LCS	1A31031-BS1	02/01/11 08:30	5.00	25.00
GW0032	1A31031-MS1	02/01/11 08:30	22.50	25.00
GW0032	1A31031-MSD1	02/01/11 08:30	22.50	25.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B02021 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0002	1101198-01	02/03/11 08:00	25.00	25.00
GW0003	1101198-03	02/03/11 08:00	25.00	25.00
GW0004	1101198-05	02/03/11 08:00	25.00	25.00
Blank	1B02021-BLK1	02/03/11 08:00	25.00	25.00
LCS	1B02021-BS1	02/03/11 08:00	5.00	25.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B03408 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0002	1101198-01	02/03/11 13:24	270.00	200.00
GW0003	1101198-03	02/03/11 13:24	275.00	200.00
GW0004	1101198-05	02/03/11 13:24	285.00	200.00
Blank	1B03408-BLK1	02/03/11 13:24	250.00	200.00
LCS	1B03408-BS1	02/03/11 13:24	3.00	250.00
LCS Dup	1B03408-BSD1	02/03/11 13:24	3.00	250.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B11026 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0017	1101181-01	02/11/11 11:00	100.00	100.00
GW0032	1101181-02	02/11/11 11:00	100.00	100.00
Blank	1B11026-BLK1	02/11/11 11:00	100.00	100.00
LCS	1B11026-BS1	02/11/11 11:00	100.00	100.00
GW0032	1B11026-MS1	02/11/11 11:00	100.00	100.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: kirtland_001

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B15018 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0002	1101198-01	02/15/11 15:00	100.00	100.00
GW0003	1101198-03	02/15/11 15:00	100.00	100.00
GW0004	1101198-05	02/15/11 15:00	100.00	100.00
Blank	1B15018-BLK1	02/15/11 15:00	100.00	100.00
LCS	1B15018-BS1	02/15/11 15:00	100.00	100.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence:
Instrument:
Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1A31031-BLK1	020111-004	02/01/11 09:50
LCS	1A31031-BS1	020111-003	02/01/11 11:41
GW0032	1A31031-MS1	020111-025	02/01/11 14:31
GW0032	1A31031-MSD1	020111-026	02/01/11 15:02
Blank	1B02021-BLK1	020311-004	02/03/11 09:42
LCS	1B02021-BS1	020311-003	02/03/11 09:58

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_001

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1A31016-BLK1	013111-004	01/31/11 18:18
LCS Dup	1A31016-BSD1	013111-003	01/31/11 18:37
LCS	1A31016-BS1	013111-002	01/31/11 18:37
Blank	1B03408-BLK1	020311-004	02/03/11 17:45
LCS	1B03408-BS1	020311-002	02/03/11 17:56
LCS Dup	1B03408-BSD1	020311-003	02/03/11 17:57

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 0J29503
Instrument: WC-IC
Calibration: 0295001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0J29503-CAL1	102110curve-057	10/21/10 10:28
Cal Standard	0J29503-CAL2	102110curve-058	10/21/10 10:45
Cal Standard	0J29503-CAL3	102110curve-059	10/21/10 11:02
Cal Standard	0J29503-CAL4	102110curve-060	10/21/10 11:20
Cal Standard	0J29503-CAL5	102110curve-061	10/21/10 11:37
Cal Standard	0J29503-CAL6	102110curve-062	10/21/10 11:55
Cal Standard	0J29503-CAL7	102110curve-063	10/21/10 12:12
Cal Standard	0J29503-CAL8	102110curve-064	10/21/10 12:29
Initial Cal Check	0J29503-ICV1	102110curve-065	10/21/10 12:47
Initial Cal Blank	0J29503-ICB1	102110curve-066	10/21/10 13:04
Instrument RL Check	0J29503-CRL2	102110curve-068	10/21/10 13:39

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1A03116
Instrument: WC-Lachat
Calibration: 1031002

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1A03116-CAL1	M_1-31-2011_04-16-19PM-00	01/31/11 16:17
Cal Standard	1A03116-CAL2	M_1-31-2011_04-16-19PM-00	01/31/11 16:18
Cal Standard	1A03116-CAL3	M_1-31-2011_04-16-19PM-00	01/31/11 16:19
Cal Standard	1A03116-CAL5	M_1-31-2011_04-16-19PM-00	01/31/11 16:20
Cal Standard	1A03116-CAL4	M_1-31-2011_04-16-19PM-00	01/31/11 16:20
Cal Standard	1A03116-CAL6	M_1-31-2011_04-16-19PM-00	01/31/11 16:21
Cal Standard	1A03116-CAL7	M_1-31-2011_04-16-19PM-00	01/31/11 16:22
Cal Standard	1A03116-CAL8	M_1-31-2011_04-16-19PM-00	01/31/11 16:23
Initial Cal Check	1A03116-ICV1	M_1-31-2011_04-16-19PM-00	01/31/11 16:24
Initial Cal Blank	1A03116-ICB1	M_1-31-2011_04-16-19PM-01	01/31/11 16:25
Blank	1A28005-BLK1	M_1-31-2011_04-16-19PM-01	01/31/11 16:26
LCS	1A28005-BS1	M_1-31-2011_04-16-19PM-01	01/31/11 16:27
GW0001	1101162-01	M_1-31-2011_04-16-19PM-01	01/31/11 16:30
Calibration Check	1A03116-CCV1	M_1-31-2011_04-16-19PM-01	01/31/11 16:31
Calibration Blank	1A03116-CCB1	M_1-31-2011_04-16-19PM-01	01/31/11 16:32

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1A03120
Instrument: WC-IC
Calibration: 0295001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1A03120-CCV1	012811-002	01/28/11 11:18
Calibration Blank	1A03120-CCB1	012811-003	01/28/11 11:35
Instrument RL Check	1A03120-CRL1	012811-005	01/28/11 12:10
LCS	1A28010-BS1	012811-006	01/28/11 12:27
Blank	1A28010-BLK1	012811-007	01/28/11 12:45
Instrument RL Check	1A03120-CRL2	012811-012	01/28/11 14:12
Calibration Check	1A03120-CCV2	012811-013	01/28/11 14:29
Calibration Blank	1A03120-CCB2	012811-014	01/28/11 14:46
GW0002	1101198-01	012811-015	01/28/11 15:04
GW0002	1A28010-MS1	012811-016	01/28/11 15:21
GW0002	1A28010-MSD1	012811-017	01/28/11 15:39
GW0002	1A28010-DUP1	012811-018	01/28/11 15:56
GW0003	1101198-03	012811-019	01/28/11 16:14
GW0004	1101198-05	012811-020	01/28/11 16:31
Calibration Check	1A03120-CCV3	012911-002	01/29/11 13:17
Calibration Blank	1A03120-CCB3	012911-003	01/29/11 13:35

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B03813
Instrument: WC-IC
Calibration: 0295001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B03813-CCV1	012611-002	01/26/11 19:02
Calibration Blank	1B03813-CCB1	012611-003	01/26/11 19:19
Instrument RL Check	1B03813-CRL1	012611-004	01/26/11 19:37
LCS	1A26034-BS1	012611-005	01/26/11 19:54
Blank	1A26034-BLK1	012611-006	01/26/11 20:11
Calibration Check	1B03813-CCV2	012611-014	01/26/11 22:31
Calibration Blank	1B03813-CCB2	012611-015	01/26/11 22:48
GW0001	1101162-01	012611-017	01/26/11 23:23
Calibration Check	1B03813-CCV3	012611-028	01/27/11 02:34
Calibration Blank	1B03813-CCB3	012611-029	01/27/11 02:52

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04215
Instrument: WC-Lachat
Calibration: 1042002

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B04215-CAL1	M_2-11-2011_03-07-13PM-00	02/11/11 15:08
Cal Standard	1B04215-CAL2	M_2-11-2011_03-07-13PM-00	02/11/11 15:09
Cal Standard	1B04215-CAL3	M_2-11-2011_03-07-13PM-00	02/11/11 15:10
Cal Standard	1B04215-CAL4	M_2-11-2011_03-07-13PM-00	02/11/11 15:11
Cal Standard	1B04215-CAL5	M_2-11-2011_03-07-13PM-00	02/11/11 15:12
Cal Standard	1B04215-CAL6	M_2-11-2011_03-07-13PM-00	02/11/11 15:13
Cal Standard	1B04215-CAL7	M_2-11-2011_03-07-13PM-00	02/11/11 15:14
Cal Standard	1B04215-CAL8	M_2-11-2011_03-07-13PM-00	02/11/11 15:15
Initial Cal Check	1B04215-ICV1	M_2-11-2011_03-07-13PM-00	02/11/11 15:16
Initial Cal Blank	1B04215-ICB1	M_2-11-2011_03-07-13PM-01	02/11/11 15:17
Blank	1B11026-BLK1	M_2-11-2011_03-07-13PM-02	02/11/11 15:26
LCS	1B11026-BS1	M_2-11-2011_03-07-13PM-02	02/11/11 15:27
GW0017	1101181-01	M_2-11-2011_03-07-13PM-02	02/11/11 15:28
GW0032	1101181-02	M_2-11-2011_03-07-13PM-02	02/11/11 15:29
GW0032	1B11026-MS1	M_2-11-2011_03-07-13PM-02	02/11/11 15:30
Calibration Check	1B04215-CCV1	M_2-11-2011_03-07-13PM-02	02/11/11 15:31
Calibration Blank	1B04215-CCB1	M_2-11-2011_03-07-13PM-02	02/11/11 15:32

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_001
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04612	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04612-CCV1	012711-002	01/27/11 17:53
Calibration Blank	1B04612-CCB1	012711-003	01/27/11 18:11
Instrument RL Check	1B04612-CRL1	012711-004	01/27/11 18:28
LCS	1A27018-BS1	012711-005	01/27/11 18:46
Blank	1A27018-BLK1	012711-006	01/27/11 19:03
GW0017	1101181-01	012711-007	01/27/11 19:20
GW0032	1101181-02	012711-008	01/27/11 19:38
Calibration Check	1B04612-CCV2	012711-009	01/27/11 19:55
Calibration Blank	1B04612-CCB2	012711-010	01/27/11 20:13

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_001
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04620
Instrument: WC-Lachat
Calibration: 1046003

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B04620-CAL1	M_2-15-2011_04-19-55PM-00	02/15/11 16:21
Cal Standard	1B04620-CAL2	M_2-15-2011_04-19-55PM-00	02/15/11 16:22
Cal Standard	1B04620-CAL3	M_2-15-2011_04-19-55PM-00	02/15/11 16:23
Cal Standard	1B04620-CAL4	M_2-15-2011_04-19-55PM-00	02/15/11 16:24
Cal Standard	1B04620-CAL5	M_2-15-2011_04-19-55PM-00	02/15/11 16:25
Cal Standard	1B04620-CAL7	M_2-15-2011_04-19-55PM-00	02/15/11 16:26
Cal Standard	1B04620-CAL6	M_2-15-2011_04-19-55PM-00	02/15/11 16:26
Cal Standard	1B04620-CAL8	M_2-15-2011_04-19-55PM-00	02/15/11 16:27
Initial Cal Check	1B04620-ICV1	M_2-15-2011_04-19-55PM-00	02/15/11 16:28
Initial Cal Blank	1B04620-ICB1	M_2-15-2011_04-19-55PM-01	02/15/11 16:29
Blank	1B15018-BLK1	M_2-15-2011_04-19-55PM-01	02/15/11 16:30
LCS	1B15018-BS1	M_2-15-2011_04-19-55PM-01	02/15/11 16:31
GW0002	1101198-01	M_2-15-2011_04-19-55PM-01	02/15/11 16:32
GW0003	1101198-03	M_2-15-2011_04-19-55PM-01	02/15/11 16:33
GW0004	1101198-05	M_2-15-2011_04-19-55PM-01	02/15/11 16:34
Calibration Check	1B04620-CCV1	M_2-15-2011_04-19-55PM-02	02/15/11 16:40
Calibration Blank	1B04620-CCB1	M_2-15-2011_04-19-55PM-02	02/15/11 16:41

ANALYTICAL SUMMARY DATA PACKAGE
SDG # KIRTLAND_002

PROJECT NAME: KIRTLAND AFB 2011
PROJECT LOCATION: ALBUQUERQUE, NEW MEXICO

SUBMITTAL TO:
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SHAW E&I
7604 Technology Way, Suite 300
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Original Report Date: February 24, 2011
Report Revision #: 01
Revision Date: February 28, 2011
Total # of Pages: 397

THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Technical Lab Director, Mr. Rick Davis, is responsible for the final data produced and reported. His signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.

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Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

Sample GW0034 is not marked on the CoC for BNA by SW8270C; however, as per the client, the sample should be analyzed for SW8270C from a 1L DRO sample bottle.

Changes to the Revision
Data package revised to change client IDs from "GWOO35" to "GW0035" for sample 1102024-02 and "GWOO39" to "GW0039" for sample 1102024-04.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8260B:
The batch spike associated to batch 1B09001 exceeded criteria with a negative bias for 2,2-Dichloropropane.

The method blanks 1B08003-BLK1, 1B08006-BLK1 and 1B04102-BLK1 have positive results for Hexachlorobutadiene.

The continuing calibration verification 1B04102-CCV1 exceeded criteria with a positive bias for Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, 1,3-Dichlorobenzene, Dichlorodifluoromethane, 1,2-Dichloroethane, Naphthalene, 1,2,3-Trichlorobenzene, 1,1,1-Trichloroethane and Trichlorofluoromethane.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8270C:
Sample 1101211-01 was requested for extraction by the client 13 days after sampling with an EPA recommended holding time of 7 days. Samples are qualified H2.

The batch spikes associated to batch 1B11003 exceeded recovery criteria with a positive bias for Butylbenzylphthalate and 4-Nitroaniline, with a negative bias for Caprolactam, Hexachlorobutadiene, and Hexachloroethane and exceeded relative percent difference criteria for Hexachlorobutadiene and Hexachlorocyclopentadiene.

The continuing calibration verification 1B04714-CCV1 exceeded criteria with a negative bias for Benzaldehyde and Benzidine and with a positive bias for 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol, 4-Nitroaniline, and Pyrene.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8015B GRO:
No anomalies or deviations are noted.

SW8015B DRO:
No anomalies or deviations are noted.

SW8011 EDB:
No anomalies or deviations are noted.

SW6010B:
Sample 1102024-03 is qualified with an M for Lead to indicate that the DL was raised due to interference.

The continuing calibration blank 1B03704-CCB1 has a positive result for Iron (dissolved).

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Wet Chemistry:
Samples 1102004-01, -03, 1102024-01, -03 and 1102028-01 are qualified with an M for Chloride to indicate that the LOQ was raised due to interference.

The matrix spike duplicate associated to sample 1101211-01 exceeded criteria with a positive bias for Chloride.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Data Qualifiers
As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix. For DoD QSM 4.1 reporting purposes, this definition is also applied to the reported Detection Limit (DL).

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM 4.1 revisions as the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

LOQ: The Limit of Quantitation is the minimum level, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. This term is further clarified within the DoD QSM 4.1 as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

*****: An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL.

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL has been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the DL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:

The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "**RE"** implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity is authorized to sign this Statement of Data Authenticity.

Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

Sample Receipt Information

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW004

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 28 JAN 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182210

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification: Radiological ☐
Non-hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive (mos.)

1. Relinquished By (Signature/Affiliation) Mark Lyon Shaw Environmental — Date: 1/28/11 Time: 1730
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time: 29
3. Received By (Signature/Affiliation) — Date: 1-31-11 Time: 09:30

-0.6

Comments:

1/01/11

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0034	KAFB10645-WG-GW0034-REG	28 JAN 2011	14:25	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0034	KAFB10645-WG-GW0034-REG	28 JAN 2011	14:25	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0034	KAFB10645-WG-GW0034-REG	28 JAN 2011	14:25	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0034	KAFB10645-WG-GW0034-REG	28 JAN 2011	14:25	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0034	KAFB10645-WG-GW0034-REG	28 JAN 2011	14:25	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0034	KAFB10645-WG-GW0034-REG	28 JAN 2011	14:25	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		

-01
-02

mlt 1/28/11

CP 2-2-11

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KIRTLAND_002 Summ Package

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW004

11

1/01/11

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0034	KAFB10645-WG-GW0034-REG	28 JAN 2011	14:25	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
GW0034	KAFB10645-WG-GW0034-REG	28 JAN 2011	14:25	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0034	KAFB10645-WG-GW0034-REG	28 JAN 2011	14:25	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0034	KAFB10645-WG-GW0034-REG	28 JAN 2011	14:25	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
GW8004-TB	FIELDQC-BW-GW8004-TB-TB	28 JAN 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

-02
-01
-03

mee 1/28/11

KIRTLAND_002 Summ Package

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 110121 Number of Coolers: 1 of 1

Client: Shaw E+I Inc Project: Kirtland AFB

Date/Time Received: 1.29.11 9:30 Date cooler(s) opened: 1.29.11

Opened By (print): Russ Townsend (signature): Russ Townsend

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 2210

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 1.28.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No N/A

4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... (Yes) No N/A

5. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No N/A

6. Did you sign custody papers in the appropriate place for acceptance? ..... (Yes) No N/A

7. Was project identifiable from custody papers? ..... (Yes) No N/A

8. If required, was enough ice present in the cooler(s)? ..... (Yes) No N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 0.3 °C Correction Factor: -0.3 °C Final Value: 0.6 °C Samples not frozen!!! containers had direct contact with ice

Dates samples were logged-in: 1-31-11

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): CO

10. Were all bottle lids intact and sealed tightly? ..... (Yes) No N/A

11. Did all bottles arrive unbroken? ..... (Yes) No N/A

12. Was all required bottle label information complete? ..... (Yes) No N/A

13. Did all bottle labels agree with custody papers? ..... (Yes) No N/A

14. Were correct containers used for the analyses indicated? ..... (Yes) No N/A

15. Were preservative levels correct in all applicable sample containers? ..... (Yes) No N/A

16. Was residual chlorine present in any applicable sample containers? ..... Yes No (N/A)

17. Was sufficient amount of sample sent for the analyses required? ..... (Yes) No N/A

18. Was headspace present in any included VOA vials? ..... Yes (No) N/A

If Non-Conformance issues were present, list by sample ID: _____

- ph<2 for all Ammonia & metals containers.
- ph>9 for sulfide containers

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW005

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Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 31 JAN 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Koetzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872578182221

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7804 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification:
Non-hazard X | Flammable | Skin Irritant | Poison B | Radiological | Unknown

Sample Disposal:
Return to Client | Disposal by Lab X | Archive (mos.)

1. Relinquished By (Signature/Affiliation) — Date: 1-31-11 Time: 1730
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: Time:

Comments:

1102004

2-1-11 08:45 3.1°C

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Filt	CID	Condition On Receipt
GW0012	KAFB10611-WG-GW0012-REG	31 JAN 2011	11:52	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0012	KAFB10611-WG-GW0012-REG	31 JAN 2011	11:52	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0012	KAFB10611-WG-GW0012-REG	31 JAN 2011	11:52	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0012	KAFB10611-WG-GW0012-REG	31 JAN 2011	11:52	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0012	KAFB10611-WG-GW0012-REG	31 JAN 2011	11:52	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0012	KAFB10611-WG-GW0012-REG	31 JAN 2011	11:52	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		

-01

-02

KIRTLAND_002 Summ Package

Shaw™

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW005

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-02 GW0012	KAFB10811-WG-GW0012-REG	31 JAN 2011	11:52	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-01 GW0012	KAFB10811-WG-GW0012-REG	31 JAN 2011	11:52	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0012	KAFB10811-WG-GW0012-REG	31 JAN 2011	11:52	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0012	KAFB10811-WG-GW0012-REG	31 JAN 2011	11:52	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
-03 GW0013	KAFB10812-WG-GW0013-REG	31 JAN 2011	14:40	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0013	KAFB10812-WG-GW0013-REG	31 JAN 2011	14:40	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0013	KAFB10812-WG-GW0013-REG	31 JAN 2011	14:40	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0013	KAFB10812-WG-GW0013-REG	31 JAN 2011	14:40	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0013	KAFB10812-WG-GW0013-REG	31 JAN 2011	14:40	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-04 GW0013	KAFB10812-WG-GW0013-REG	31 JAN 2011	14:40	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0013	KAFB10812-WG-GW0013-REG	31 JAN 2011	14:40	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-03 GW0013	KAFB10812-WG-GW0013-REG	31 JAN 2011	14:40	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0013	KAFB10812-WG-GW0013-REG	31 JAN 2011	14:40	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0013	KAFB10812-WG-GW0013-REG	31 JAN 2011	14:40	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
-05 GW8005-TB	FIELDQC-BW-GW8005-TB-TB	31 JAN 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

KIRTLAND_002 Summ Package

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102004 Number of Coolers: 1 of 1

Client: SHAW E&I INC Project: Kirtland AFB

Date/Time Received: 2.1.11 08:45 Date cooler(s) opened: 2.1.11

Opened By (print): Russ Townsend (signature): Russ Townsend

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 2221

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 1.31.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... (Yes) No N/A
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No N/A
6. Did you sign custody papers in the appropriate place for acceptance? ..... (Yes) No N/A
7. Was project identifiable from custody papers? ..... (Yes) No N/A
8. If required, was enough ice present in the cooler(s)? ..... (Yes) No N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 3.4 °C Correction Factor: -0.3 °C Final Value: 3.1 °C

Dates samples were logged-in: 2-1-11

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____
10. Were all bottle lids intact and sealed tightly? ..... (Yes) No N/A
11. Did all bottles arrive unbroken? ..... (Yes) No N/A
12. Was all required bottle label information complete? ..... (Yes) No N/A
13. Did all bottle labels agree with custody papers? ..... (Yes) No N/A
14. Were correct containers used for the analyses indicated? ..... (Yes) No N/A
15. Were preservative levels correct in all applicable sample containers? ..... (Yes) No N/A
16. Was residual chlorine present in any applicable sample containers? ..... Yes No (N/A)
17. Was sufficient amount of sample sent for the analyses required? ..... (Yes) No N/A
18. Was headspace present in any included VOA vials? ..... Yes (No) N/A

If Non-Conformance issues were present, list by sample ID: _____

· pH<2 for all ammonia and metals samples.

· pH>9 for all sulfides

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW006
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Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time: Routine

Samples Shipment Date: 02 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182232

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions: LAB TO FILTER 0.45um DISSOLVED METALS FRACTIONS FOR GW0035 AND GW0039

Possible Hazard Indentification: Radiological ☐
Non-hazard ☒ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐

Sample Disposal:
Return to Client ☐ Disposal by Lab ☒ Archive ☐ (mos.)

1. Relinquished By (Signature/Affiliation) Mark Lyon Shaw Environmental Date: 2/2/2011 Time: 1600
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) Date: Time:

Comments:

1102024

1.3°C 08:45 2-3-11

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0035	KAFB0003-WG-GW0035-REG	02 FEB 2011	09:55	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0035	KAFB0003-WG-GW0035-REG	02 FEB 2011	09:55	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0035	KAFB0003-WG-GW0035-REG	02 FEB 2011	09:55	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0035	KAFB0003-WG-GW0035-REG	02 FEB 2011	09:55	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0035	KAFB0003-WG-GW0035-REG	02 FEB 2011	09:55	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0035	KAFB0003-WG-GW0035-REG	02 FEB 2011	09:55	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
GW0035	KAFB0003-WG-GW0035-REG	02 FEB 2011	09:55	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-02 GW0035	KAFB0003-WG-GW0035-REG	02 FEB 2011	09:55	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by			(N)		

M 2/2/11

KIRTLAND_002 Summ Package

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW006

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0035	KAFB0003-WG-GW0035-REG	02 FEB 2011	09:55	250 mL HDPE	1	HNO3<pH 2	SW846 6010C Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-03	GW0039	ST106-VA2-WG-GW0039-REG	02 FEB 2011	12:05	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0039	ST106-VA2-WG-GW0039-REG	02 FEB 2011	12:05	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0039	ST106-VA2-WG-GW0039-REG	02 FEB 2011	12:05	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0039	ST106-VA2-WG-GW0039-REG	02 FEB 2011	12:05	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0039	ST106-VA2-WG-GW0039-REG	02 FEB 2011	12:05	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-04	GW0039	ST106-VA2-WG-GW0039-REG	02 FEB 2011	12:05	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			(N)		
-03	GW0039	ST106-VA2-WG-GW0039-REG	02 FEB 2011	12:05	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0039	ST106-VA2-WG-GW0039-REG	02 FEB 2011	12:05	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0039	ST106-VA2-WG-GW0039-REG	02 FEB 2011	12:05	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
-05	GW8006-TB	FIELDQC-BW-GW8006-TB-TB	02 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

2/2/11

KIRTLAND_002 Summ Package

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 110224 Number of Coolers: 1 of 1

Client: Shaw E+I Inc Project: Kirtland AFB

Date/Time Received: 2.3.11 08:45 Date cooler(s) opened: 2.3-11

Opened By (print): Russ Townsend (signature): Russ Townsend

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 2232

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 2.2.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.8 °C Correction Factor: -0.3 °C Final Value: 1.3 °C

Dates samples were logged-in: 2-3-11

9. Initial this form to acknowledge login of sample(s): (Name): Chris Pel (Initial): CP

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	(Yes)	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	(N/A)
17. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
18. Was headspace present in any included VOA vials?	Yes	(No)	N/A

If Non-Conformance issues were present, list by sample ID: _____

- ph > 9 for all Sulfides
- ph < 2 for all ammonia + metals Samples

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW007

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 03 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182243

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification:
Non-hazard [X] Flammable [ ] Skin Irritant [ ] Poison B [ ] Unknown [ ] Radiological [ ]

Sample Disposal:
Return to Client [ ] Disposal by Lab [X] Archive (mos.)

1. Relinquished By (Signature/Affiliation) Mark Lyon Shaw Environmental Date: 2/3/2011 Time: 1630
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) 0.2°C Date: 2-4-11 Time: 08:45

Comments:

1102028

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0008	KAFB1067-WG-GW0008-REG	03 FEB 2011	12:42	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0008	KAFB1067-WG-GW0008-REG	03 FEB 2011	12:42	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0008	KAFB1067-WG-GW0008-REG	03 FEB 2011	12:42	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0008	KAFB1067-WG-GW0008-REG	03 FEB 2011	12:42	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0008	KAFB1067-WG-GW0008-REG	03 FEB 2011	12:42	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0008	KAFB1067-WG-GW0008-REG	03 FEB 2011	12:42	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		

-01
-02

KIRTLAND_002 Summ Package

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW007

Sample No	Sample Name	Sample Date	Sample Time	Container	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0008	KAFB1067-WG-GW0008-REG	03 FEB 2011	12:42	250 mL HDPE	1 HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
GW0008	KAFB1067-WG-GW0008-REG	03 FEB 2011	12:42	250 mL HDPE	1 None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0008	KAFB1067-WG-GW0008-REG	03 FEB 2011	12:42	250 mL HDPE	1 H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0008	KAFB1067-WG-GW0008-REG	03 FEB 2011	12:42	250 mL HDPE	1 Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
GW8007-TB	FIELDQC-BW-GW8007-TB-TB	03 FEB 2011	08:00	40 mL VOA VIAL	2 HCl<pH 2	VOCs by SW846 8260B			N		

-02
-01
-03
CP 2-4-11

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KIRTLAND_002 Summ Package

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 410202F Number of Coolers: 1 of 1

Client: Shaw E+I Inc. Project: Kirtland AFB

Date/Time Received: 2.4.11 08:45 Date cooler(s) opened: 2.4.11

Opened By (print): Russ Townsend (signature): Russ Townsend

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 2243

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 2.3.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... (Yes) No N/A
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No N/A
6. Did you sign custody papers in the appropriate place for acceptance? ..... (Yes) No N/A
7. Was project identifiable from custody papers? ..... (Yes) No N/A
8. If required, was enough ice present in the cooler(s)? ..... (Yes) No N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 0.5 °C Correction Factor: -0.3 °C Final Value: 0.2 °C

Dates samples were logged-in: 2-4-11

9. Initial this form to acknowledge login of sample(s): (Name): Chris D (Initial): CD

10. Were all bottle lids intact and sealed tightly? ..... (Yes) No N/A
11. Did all bottles arrive unbroken? ..... (Yes) No N/A
12. Was all required bottle label information complete? ..... (Yes) No N/A
13. Did all bottle labels agree with custody papers? ..... (Yes) No N/A
14. Were correct containers used for the analyses indicated? ..... (Yes) No N/A
15. Were preservative levels correct in all applicable sample containers? ..... (Yes) No N/A
16. Was residual chlorine present in any applicable sample containers? ..... Yes No (N/A)
17. Was sufficient amount of sample sent for the analyses required? ..... (Yes) No N/A
18. Was headspace present in any included VOA vials? ..... Yes (No) N/A

If Non-Conformance issues were present, list by sample ID: _____

- ph<2 for all metals & ammonia Samples
- ph 12-9 for sulfide Sample

CD 2-4-11

Kim Kostzer

From: Moss, Pamela J [pamela.moss@shawgrp.com]
Sent: Thursday, February 10, 2011 11:33 AM
To: kkostzer@empirlabs.com
Subject: SVOC analysis required on 2 samples for Kirtland

Kim ,
Plz check immediately if we are able to run 8270 analysis on the 1-L, DRO sample container for these 2 samples submitted to lab. Plz run the sample GW0033 ASAP to meet the extraction HT. Thx.

106045 – GW0034 sample date 1/28
106044 – GW0033 sample date 2/4

Pam

Pamela Moss
Program Manager
Shaw Environmental & Infrastructure, Inc.
7604 Technology Way, Ste. 300
Denver, CO 80237
Office 720-554-8252
Cell 303-810-6903
pamela.moss@shawgrp.com

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WORK ORDER

1101211

Printed: 2/24/2011 12:29:56PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 02/21/2011 16:00 (15 day TAT)

Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 01/29/2011 09:30
Date Logged In 01/31/2011 11:17

Samples Received at: **0.6°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1101211

Printed: 2/24/2011 12:29:56PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1101211-01 GW0034 [Water] Sampled 01/28/2011 14:25 Central					
SM4500S2CF	02/16/2011 14:00	15	02/04/2011 14:25		
E300.0	02/16/2011 14:00	15	01/30/2011 14:25		Nitrate
E300.0	02/16/2011 14:00	15	02/25/2011 14:25		Chloride, Sulfate
SM4500NH3BG	02/16/2011 14:00	15	02/25/2011 14:25		
SM2320B	02/16/2011 14:00	15	02/11/2011 14:25		
SW8260B	02/16/2011 14:00	15	02/11/2011 14:25		
SW8015B	02/16/2011 14:00	15	02/11/2011 14:25		
SW8270C	02/16/2011 14:00	15	02/04/2011 14:25		use extra DRO container
SW8011	02/16/2011 14:00	15	02/11/2011 14:25		
SW8015B	02/16/2011 14:00	15	02/04/2011 14:25		
SW6010B	02/16/2011 14:00	15	07/27/2011 14:25		Ca, Pb, K, Na, Mg
1101211-02 GW0034 [Water] Sampled 01/28/2011 14:25 Central					
SW6010B	02/16/2011 14:00	15	07/27/2011 14:25		Fe & Mn
1101211-03 GW8004-TB [Water] Sampled 01/28/2011 08:00 Central					
SW8260B	02/16/2011 14:00	15	02/11/2011 08:00		

KIRTLAND_002 Summ Package

WORK ORDER

1102004

Printed: 2/24/2011 12:30:19PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
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7604 Technology Way, Suite 300
Denver, CO 80237
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Invoice To:
Shaw E & I (I700)
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PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 02/22/2011 16:00 (15 day TAT)

Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 02/01/2011 08:45
Date Logged In 02/01/2011 13:49

Samples Received at: **3.1°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1102004

Printed: 2/24/2011 12:30:19PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102004-01 GW0012 [Water] Sampled 01/31/2011 11:52 Central					
SW8015B	02/17/2011 14:00	15	02/07/2011 11:52		
SW8011	02/17/2011 14:00	15	02/14/2011 11:52		
SW8015B	02/17/2011 14:00	15	02/14/2011 11:52		
SW8260B	02/17/2011 14:00	15	02/14/2011 11:52		
SM2320B	02/17/2011 14:00	15	02/14/2011 11:52		
SM4500NH3BG	02/17/2011 14:00	15	02/28/2011 11:52		
E300.0	02/17/2011 14:00	15	02/28/2011 11:52		Chloride, Sulfate
E300.0	02/17/2011 14:00	15	02/02/2011 11:52		Nitrate
SM4500S2CF	02/17/2011 14:00	15	02/07/2011 11:52		
SW6010B	02/17/2011 14:00	15	07/30/2011 11:52		Ca, Pb, K, Na, Mg
1102004-02 GW0012 [Water] Sampled 01/31/2011 11:52 Central					**Field Filtered and Preserved.**
SW6010B	02/17/2011 14:00	15	07/30/2011 11:52		Fe & Mn, Field Filtered and Preserved.
1102004-03 GW0013 [Water] Sampled 01/31/2011 14:40 Central					
SW8015B	02/17/2011 14:00	15	02/07/2011 14:40		
SW8011	02/17/2011 14:00	15	02/14/2011 14:40		
SW8015B	02/17/2011 14:00	15	02/14/2011 14:40		
SW8260B	02/17/2011 14:00	15	02/14/2011 14:40		
SM2320B	02/17/2011 14:00	15	02/14/2011 14:40		
SM4500NH3BG	02/17/2011 14:00	15	02/28/2011 14:40		
E300.0	02/17/2011 14:00	15	02/28/2011 14:40		Chloride, Sulfate
E300.0	02/17/2011 14:00	15	02/02/2011 14:40		Nitrate
SM4500S2CF	02/17/2011 14:00	15	02/07/2011 14:40		
SW6010B	02/17/2011 14:00	15	07/30/2011 14:40		Ca, Pb, K, Na, Mg

WORK ORDER

1102004

Printed: 2/24/2011 12:30:19PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102004-04 GW0013 [Water] Sampled 01/31/2011 14:40 Central					**Field Filtered and Preserved.**
SW6010B	02/17/2011 14:00	15	07/30/2011 14:40		Fe & Mn, Field Filtered and Preserved.
1102004-05 GW8005-TB [Water] Sampled 01/31/2011 08:00 Central					
SW8260B	02/17/2011 14:00	15	02/14/2011 08:00		

WORK ORDER

1102024

Printed: 2/24/2011 12:30:57PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
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Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 02/24/2011 16:00 (15 day TAT)

Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 02/03/2011 08:45
Date Logged In 02/03/2011 14:26

Samples Received at: **1.3°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1102024

Printed: 2/24/2011 12:30:57PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102024-01 GW0035 [Water] Sampled 02/02/2011 09:55 Central					
SW8015B	02/21/2011 14:00	15	02/09/2011 09:55		
SW8011	02/21/2011 14:00	15	02/16/2011 09:55		
SW8015B	02/21/2011 14:00	15	02/16/2011 09:55		
SW8260B	02/21/2011 14:00	15	02/16/2011 09:55		
SM2320B	02/21/2011 14:00	15	02/16/2011 09:55		
SM4500NH3BG	02/21/2011 14:00	15	03/02/2011 09:55		
E300.0	02/21/2011 14:00	15	03/02/2011 09:55		CHLORIDE, SULFATE
E300.0	02/21/2011 14:00	15	02/04/2011 09:55		NITRATE
SM4500S2CF	02/21/2011 14:00	15	02/09/2011 09:55		
SW6010B	02/21/2011 14:00	15	08/01/2011 09:55		Ca, Pb, K, Na, Mg
1102024-02 GWOO35 [Water] Sampled 02/02/2011 09:55 Central					**LAB FILTER**
SW6010B	02/21/2011 14:00	15	08/01/2011 09:55		Fe & Mn, LAB FILTER
1102024-03 GW0039 [Water] Sampled 02/02/2011 12:05 Central					
SW8015B	02/21/2011 14:00	15	02/09/2011 12:05		
SW8011	02/21/2011 14:00	15	02/16/2011 12:05		
SW8015B	02/21/2011 14:00	15	02/16/2011 12:05		
SW8260B	02/21/2011 14:00	15	02/16/2011 12:05		
SM2320B	02/21/2011 14:00	15	02/16/2011 12:05		
SM4500NH3BG	02/21/2011 14:00	15	03/02/2011 12:05		
E300.0	02/21/2011 14:00	15	03/02/2011 12:05		CHLORIDE, SULFATE
E300.0	02/21/2011 14:00	15	02/04/2011 12:05		NITRATE
SM4500S2CF	02/21/2011 14:00	15	02/09/2011 12:05		
SW6010B	02/21/2011 14:00	15	08/01/2011 12:05		Ca, Pb, K, Na, Mg

WORK ORDER

1102024

Printed: 2/24/2011 12:30:57PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102024-04 GWOO39 [Water] Sampled 02/02/2011 12:05 Central					**LAB FILTER**
SW6010B	02/21/2011 14:00	15	08/01/2011 12:05		Fe & Mn, LAB FILTER
1102024-05 GW8006-TB [Water] Sampled 02/02/2011 08:00 Central					
SW8260B	02/21/2011 14:00	15	02/16/2011 08:00		

WORK ORDER

1102028

Printed: 2/24/2011 12:31:23PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
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PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 02/25/2011 16:00 (15 day TAT)

Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 02/04/2011 08:45
Date Logged In 02/04/2011 10:04

Samples Received at: **0.2°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1102028

Printed: 2/24/2011 12:31:23PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102028-01 GW0008 [Water] Sampled 02/03/2011 12:42 Central					
SM4500S2CF	02/22/2011 14:00	15	02/10/2011 12:42		
E300.0	02/22/2011 14:00	15	02/05/2011 12:42		Nitrate
E300.0	02/22/2011 14:00	15	03/03/2011 12:42		Chloride, Sulfate
SM4500NH3BG	02/22/2011 14:00	15	03/03/2011 12:42		
SM2320B	02/22/2011 14:00	15	02/17/2011 12:42		
SW8260B	02/22/2011 14:00	15	02/17/2011 12:42		
SW8015B	02/22/2011 14:00	15	02/17/2011 12:42		
SW8011	02/22/2011 14:00	15	02/17/2011 12:42		
SW8015B	02/22/2011 14:00	15	02/10/2011 12:42		
SW6010B	02/22/2011 14:00	15	08/02/2011 12:42		Ca, Pb, K, Na, Mg
1102028-02 GW0008 [Water] Sampled 02/03/2011 12:42 Central					**Field Filtered and Preserved.**
SW6010B	02/22/2011 14:00	15	08/02/2011 12:42		Fe & Mn, Field Filtered and Preserved.
1102028-03 GW8007-TB [Water] Sampled 02/03/2011 08:00 Central					
SW8260B	02/22/2011 14:00	15	02/17/2011 08:00		

Sample Delivery Group Assignment Form

CLIENT: Shaw E & I (I700)
PROJECT NAME: Kirtland AFB 2011
SDG #: kirtland_002
MATRIX: Water

QC LEVEL: EDD/IVQSM
Report Due: 2/25/2011
Client Sample Count: 13

Sample Type	Sampled	Received	Lab ID	Client ID	E300.0	SM2320B	SM4500NH3BG	SM4500S2CF	SW6010B	SW8011	SW8015B	SW8260B	SW8270C
Client Sample	1/28/2011	1/29/2011	1101211-01	GW0034	X	X	X	X	X	X	X	X	X
Client Sample	1/28/2011	1/29/2011	1101211-02	GW0034					X				
Client Sample	1/28/2011	1/29/2011	1101211-03	GW8004-TB								X	
Client Sample	1/31/2011	2/1/2011	1102004-01	GW0012	X	X	X	X	X	X	X	X	
Client Sample	1/31/2011	2/1/2011	1102004-02	GW0012					Field Filtered and Preserved.				
Client Sample	1/31/2011	2/1/2011	1102004-03	GW0013	X	X	X	X	X	X	X	X	
Client Sample	1/31/2011	2/1/2011	1102004-04	GW0013					Field Filtered and Preserved.				
Trip Blank	1/31/2011	2/1/2011	1102004-05	GW8005-TB								X	
Client Sample	2/2/2011	2/3/2011	1102024-01	GW0035	X	X	X	X	X	X	X	X	
Client Sample	2/2/2011	2/3/2011	1102024-02	GWOO35					LAB FILTER				
Client Sample	2/2/2011	2/3/2011	1102024-03	GW0039	X	X	X	X	X	X	X	X	
Client Sample	2/2/2011	2/3/2011	1102024-04	GWOO39					LAB FILTER				
Trip Blank	2/2/2011	2/3/2011	1102024-05	GW8006-TB								X	
Client Sample	2/3/2011	2/4/2011	1102028-01	GW0008	X	X	X	X	X	X	X	X	
Client Sample	2/3/2011	2/4/2011	1102028-02	GW0008					Field Filtered and Preserved.				
Trip Blank	2/3/2011	2/4/2011	1102028-03	GW8007-TB								X	

Data for SW8260B Forms

ANALYSIS DATA SHEET

GW0034

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1101211-01RE1 File ID: 0121101.D

Sampled: 01/28/11 14:25 Prepared: 02/09/11 00:00 Analyzed: 02/09/11 12:36

Solids: Preparation: 5030B Dilution: 1

Batch: 1B09001 Sequence: 1B04102 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	7.71	2.50	5.00	10.0	J
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	X, U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	X, U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	Q, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0034

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1101211-01RE1 File ID: 0121101.D

Sampled: 01/28/11 14:25 Prepared: 02/09/11 00:00 Analyzed: 02/09/11 12:36

Solids: Preparation: 5030B Dilution: 1

Batch: 1B09001 Sequence: 1B04102 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	X, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	28.7	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U, X
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.49	105	75 - 120	
Dibromofluoromethane	30.00	31.38	105	85 - 115	
1,2-Dichloroethane-d4	30.00	31.59	105	70 - 120	
Toluene-d8	30.00	28.98	96.6	85 - 120	

ANALYSIS DATA SHEET

GW8004-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1101211-03RE1 File ID: 0121103.D

Sampled: 01/28/11 08:00 Prepared: 02/09/11 00:00 Analyzed: 02/09/11 10:38

Solids: Preparation: 5030B Dilution: 1

Batch: 1B09001 Sequence: 1B04102 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	X, U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	X, U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	Q, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.373	0.250	0.500	1.00	J, B

ANALYSIS DATA SHEET

GW8004-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1101211-03RE1 File ID: 0121103.D

Sampled: 01/28/11 08:00 Prepared: 02/09/11 00:00 Analyzed: 02/09/11 10:38

Solids: Preparation: 5030B Dilution: 1

Batch: 1B09001 Sequence: 1B04102 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	X, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.93	103	75 - 120	
Dibromofluoromethane	30.00	30.25	101	85 - 115	
1,2-Dichloroethane-d4	30.00	28.08	93.6	70 - 120	
Toluene-d8	30.00	29.97	99.9	85 - 120	

ANALYSIS DATA SHEET

GW0012

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102004-01 File ID: 0200401.D

Sampled: 01/31/11 11:52 Prepared: 02/08/11 00:00 Analyzed: 02/08/11 14:10

Solids: Preparation: 5030B Dilution: 1

Batch: 1B08003 Sequence: 1B04021 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0012

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102004-01 File ID: 0200401.D

Sampled: 01/31/11 11:52 Prepared: 02/08/11 00:00 Analyzed: 02/08/11 14:10

Solids: Preparation: 5030B Dilution: 1

Batch: 1B08003 Sequence: 1B04021 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.32	104	75 - 120	
Dibromofluoromethane	30.00	30.48	102	85 - 115	
1,2-Dichloroethane-d4	30.00	30.62	102	70 - 120	
Toluene-d8	30.00	30.20	101	85 - 120	

ANALYSIS DATA SHEET

GW0013

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102004-03 File ID: 0200403.D

Sampled: 01/31/11 14:40 Prepared: 02/08/11 00:00 Analyzed: 02/08/11 14:39

Solids: Preparation: 5030B Dilution: 1

Batch: 1B08003 Sequence: 1B04021 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0013

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102004-03 File ID: 0200403.D

Sampled: 01/31/11 14:40 Prepared: 02/08/11 00:00 Analyzed: 02/08/11 14:39

Solids: Preparation: 5030B Dilution: 1

Batch: 1B08003 Sequence: 1B04021 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.08	100	75 - 120	
Dibromofluoromethane	30.00	31.46	105	85 - 115	
1,2-Dichloroethane-d4	30.00	30.96	103	70 - 120	
Toluene-d8	30.00	28.71	95.7	85 - 120	

ANALYSIS DATA SHEET

GW8005-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102004-05 File ID: 0200405.D

Sampled: 01/31/11 08:00 Prepared: 02/08/11 00:00 Analyzed: 02/08/11 22:32

Solids: Preparation: 5030B Dilution: 1

Batch: 1B08006 Sequence: 1B04022 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.453	0.250	0.500	1.00	J, B

ANALYSIS DATA SHEET

GW8005-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102004-05 File ID: 0200405.D

Sampled: 01/31/11 08:00 Prepared: 02/08/11 00:00 Analyzed: 02/08/11 22:32

Solids: Preparation: 5030B Dilution: 1

Batch: 1B08006 Sequence: 1B04022 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.65	98.8	75 - 120	
Dibromofluoromethane	30.00	29.24	97.5	85 - 115	
1,2-Dichloroethane-d4	30.00	28.96	96.5	70 - 120	
Toluene-d8	30.00	28.41	94.7	85 - 120	

ANALYSIS DATA SHEET

GW0035

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102024-01 File ID: 0202401.D

Sampled: 02/02/11 09:55 Prepared: 02/08/11 00:00 Analyzed: 02/09/11 02:58

Solids: Preparation: 5030B Dilution: 1

Batch: 1B08006 Sequence: 1B04022 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0035

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102024-01 File ID: 0202401.D

Sampled: 02/02/11 09:55 Prepared: 02/08/11 00:00 Analyzed: 02/09/11 02:58

Solids: Preparation: 5030B Dilution: 1

Batch: 1B08006 Sequence: 1B04022 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.65	95.5	75 - 120	
Dibromofluoromethane	30.00	31.16	104	85 - 115	
1,2-Dichloroethane-d4	30.00	29.92	99.7	70 - 120	
Toluene-d8	30.00	28.66	95.5	85 - 120	

ANALYSIS DATA SHEET

GW0039

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102024-03 File ID: 0202403.D

Sampled: 02/02/11 12:05 Prepared: 02/08/11 00:00 Analyzed: 02/09/11 03:28

Solids: Preparation: 5030B Dilution: 1

Batch: 1B08006 Sequence: 1B04022 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0039

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102024-03 File ID: 0202403.D

Sampled: 02/02/11 12:05 Prepared: 02/08/11 00:00 Analyzed: 02/09/11 03:28

Solids: Preparation: 5030B Dilution: 1

Batch: 1B08006 Sequence: 1B04022 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.06	104	75 - 120	
Dibromofluoromethane	30.00	31.08	104	85 - 115	
1,2-Dichloroethane-d4	30.00	29.42	98.1	70 - 120	
Toluene-d8	30.00	29.29	97.6	85 - 120	

ANALYSIS DATA SHEET

GW8006-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102024-05 File ID: 0202405.D

Sampled: 02/02/11 08:00 Prepared: 02/08/11 00:00 Analyzed: 02/08/11 23:31

Solids: Preparation: 5030B Dilution: 1

Batch: 1B08006 Sequence: 1B04022 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8006-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102024-05 File ID: 0202405.D

Sampled: 02/02/11 08:00 Prepared: 02/08/11 00:00 Analyzed: 02/08/11 23:31

Solids: Preparation: 5030B Dilution: 1

Batch: 1B08006 Sequence: 1B04022 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.48	98.3	75 - 120	
Dibromofluoromethane	30.00	30.95	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.25	101	70 - 120	
Toluene-d8	30.00	29.29	97.6	85 - 120	

ANALYSIS DATA SHEET

GW0008

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102028-01 File ID: 0202801.D

Sampled: 02/03/11 12:42 Prepared: 02/08/11 00:00 Analyzed: 02/09/11 03:58

Solids: Preparation: 5030B Dilution: 1

Batch: 1B08006 Sequence: 1B04022 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane	0.276	0.250	0.500	1.00	J
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0008

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102028-01 File ID: 0202801.D

Sampled: 02/03/11 12:42 Prepared: 02/08/11 00:00 Analyzed: 02/09/11 03:58

Solids: Preparation: 5030B Dilution: 1

Batch: 1B08006 Sequence: 1B04022 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene	0.461	0.250	0.500	1.00	J
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene	0.383	0.250	0.500	1.00	J
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.62	95.4	75 - 120	
Dibromofluoromethane	30.00	31.59	105	85 - 115	
1,2-Dichloroethane-d4	30.00	31.04	103	70 - 120	
Toluene-d8	30.00	27.94	93.1	85 - 120	

ANALYSIS DATA SHEET

GW8007-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102028-03 File ID: 0202803.D

Sampled: 02/03/11 08:00 Prepared: 02/08/11 00:00 Analyzed: 02/09/11 00:01

Solids: Preparation: 5030B Dilution: 1

Batch: 1B08006 Sequence: 1B04022 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8007-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102028-03 File ID: 0202803.D

Sampled: 02/03/11 08:00 Prepared: 02/08/11 00:00 Analyzed: 02/09/11 00:01

Solids: Preparation: 5030B Dilution: 1

Batch: 1B08006 Sequence: 1B04022 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.18	97.3	75 - 120	
Dibromofluoromethane	30.00	31.49	105	85 - 115	
1,2-Dichloroethane-d4	30.00	29.43	98.1	70 - 120	
Toluene-d8	30.00	30.20	101	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04021
Instrument: MS-VOA4
Calibration: 1039001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04021-CCV1) ug/L				Lab File ID: 0208CC1.D		Analyzed: 02/08/11 08:15		
Bromofluorobenzene	30.00	103	80 - 120	16.457	16.457	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	80 - 120	8.933	8.933	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	110	80 - 120	10.166	10.166	0.0000	+/-1.000	
Toluene-d8	30.00	95.7	80 - 120	14.14	14.14	0.0000	+/-1.000	
LCS (1B08003-BS1) ug/L				Lab File ID: 0208LS1.D		Analyzed: 02/08/11 08:44		
Bromofluorobenzene	30.00	99.7	75 - 120	16.449	16.457	-0.0080	+/-1.000	
Dibromofluoromethane	30.00	98.2	85 - 115	8.827	8.933	-0.1060	+/-1.000	
1,2-Dichloroethane-d4	30.00	93.8	70 - 120	10.069	10.166	-0.0970	+/-1.000	
Toluene-d8	30.00	102	85 - 120	14.122	14.14	-0.0180	+/-1.000	
Blank (1B08003-BLK1) ug/L				Lab File ID: 0208BL1.D		Analyzed: 02/08/11 10:12		
Bromofluorobenzene	30.00	104	75 - 120	16.454	16.457	-0.0030	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	8.92	8.933	-0.0130	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	10.162	10.166	-0.0040	+/-1.000	
Toluene-d8	30.00	98.3	85 - 120	14.136	14.14	-0.0040	+/-1.000	
GW0012 (1102004-01) ug/L				Lab File ID: 0200401.D		Analyzed: 02/08/11 14:10		
Bromofluorobenzene	30.00	104	75 - 120	16.455	16.457	-0.0020	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	8.872	8.933	-0.0610	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.115	10.166	-0.0510	+/-1.000	
Toluene-d8	30.00	101	85 - 120	14.128	14.14	-0.0120	+/-1.000	
GW0013 (1102004-03) ug/L				Lab File ID: 0200403.D		Analyzed: 02/08/11 14:39		
Bromofluorobenzene	30.00	100	75 - 120	16.444	16.457	-0.0130	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	8.821	8.933	-0.1120	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	10.054	10.166	-0.1120	+/-1.000	
Toluene-d8	30.00	95.7	85 - 120	14.117	14.14	-0.0230	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04022
Instrument: MS-VOA4
Calibration: 1039001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04022-CCV1) ug/L				Lab File ID: 0208CC1E.D		Analyzed: 02/08/11 20:05		
Bromofluorobenzene	30.00	99.3	80 - 120	16.45	16.45	0.0000	+/-1.000	
Dibromofluoromethane	30.00	107	80 - 120	8.827	8.827	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	80 - 120	10.06	10.06	0.0000	+/-1.000	
Toluene-d8	30.00	101	80 - 120	14.123	14.123	0.0000	+/-1.000	
LCS (1B08006-BS1) ug/L				Lab File ID: 0208LS1E.D		Analyzed: 02/08/11 20:34		
Bromofluorobenzene	30.00	99.4	75 - 120	16.448	16.45	-0.0020	+/-1.000	
Dibromofluoromethane	30.00	97.5	85 - 115	8.835	8.827	0.0080	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.6	70 - 120	10.058	10.06	-0.0020	+/-1.000	
Toluene-d8	30.00	97.2	85 - 120	14.121	14.123	-0.0020	+/-1.000	
Blank (1B08006-BLK1) ug/L				Lab File ID: 0208BL1E.D		Analyzed: 02/08/11 22:02		
Bromofluorobenzene	30.00	110	75 - 120	16.453	16.45	0.0030	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	8.86	8.827	0.0330	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.093	10.06	0.0330	+/-1.000	
Toluene-d8	30.00	100	85 - 120	14.126	14.123	0.0030	+/-1.000	
GW8005-TB (1102004-05) ug/L				Lab File ID: 0200405.D		Analyzed: 02/08/11 22:32		
Bromofluorobenzene	30.00	98.8	75 - 120	16.453	16.45	0.0030	+/-1.000	
Dibromofluoromethane	30.00	97.5	85 - 115	8.83	8.827	0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.5	70 - 120	10.063	10.06	0.0030	+/-1.000	
Toluene-d8	30.00	94.7	85 - 120	14.125	14.123	0.0020	+/-1.000	
GW8006-TB (1102024-05) ug/L				Lab File ID: 0202405.D		Analyzed: 02/08/11 23:31		
Bromofluorobenzene	30.00	98.3	75 - 120	16.455	16.45	0.0050	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	8.832	8.827	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	10.065	10.06	0.0050	+/-1.000	
Toluene-d8	30.00	97.6	85 - 120	14.117	14.123	-0.0060	+/-1.000	
GW8007-TB (1102028-03) ug/L				Lab File ID: 0202803.D		Analyzed: 02/09/11 00:01		
Bromofluorobenzene	30.00	97.3	75 - 120	16.45	16.45	0.0000	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	8.827	8.827	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.1	70 - 120	10.099	10.06	0.0390	+/-1.000	
Toluene-d8	30.00	101	85 - 120	14.122	14.123	-0.0010	+/-1.000	
GW0035 (1102024-01) ug/L				Lab File ID: 0202401.D		Analyzed: 02/09/11 02:58		
Bromofluorobenzene	30.00	95.5	75 - 120	16.449	16.45	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	8.836	8.827	0.0090	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.7	70 - 120	10.069	10.06	0.0090	+/-1.000	
Toluene-d8	30.00	95.5	85 - 120	14.122	14.123	-0.0010	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04022
Instrument: MS-VOA4
Calibration: 1039001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0039 (1102024-03) ug/L				Lab File ID: 0202403.D		Analyzed: 02/09/11 03:28		
Bromofluorobenzene	30.00	104	75 - 120	16.453	16.45	0.0030	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	8.85	8.827	0.0230	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.1	70 - 120	10.093	10.06	0.0330	+/-1.000	
Toluene-d8	30.00	97.6	85 - 120	14.126	14.123	0.0030	+/-1.000	
GW0008 (1102028-01) ug/L				Lab File ID: 0202801.D		Analyzed: 02/09/11 03:58		
Bromofluorobenzene	30.00	95.4	75 - 120	16.45	16.45	0.0000	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	8.886	8.827	0.0590	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	10.119	10.06	0.0590	+/-1.000	
Toluene-d8	30.00	93.1	85 - 120	14.132	14.123	0.0090	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04102
Instrument: MS-VOA4
Calibration: 1039001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04102-CCV1) ug/L				Lab File ID: 0209CC1.D		Analyzed: 02/09/11 08:11		
Bromofluorobenzene	30.00	98.8	80 - 120	16.455	16.455	0.0000	+/-1.000	
Dibromofluoromethane	30.00	106	80 - 120	8.862	8.862	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	110	80 - 120	10.104	10.104	0.0000	+/-1.000	
Toluene-d8	30.00	94.2	80 - 120	14.128	14.128	0.0000	+/-1.000	
LCS (1B09001-BS1) ug/L				Lab File ID: 0209LS1.D		Analyzed: 02/09/11 08:41		
Bromofluorobenzene	30.00	98.2	75 - 120	16.453	16.455	-0.0020	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	8.84	8.862	-0.0220	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.2	70 - 120	10.083	10.104	-0.0210	+/-1.000	
Toluene-d8	30.00	103	85 - 120	14.126	14.128	-0.0020	+/-1.000	
Blank (1B09001-BLK1) ug/L				Lab File ID: 0209BL1.D		Analyzed: 02/09/11 10:08		
Bromofluorobenzene	30.00	96.6	75 - 120	16.455	16.455	0.0000	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	8.842	8.862	-0.0200	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.6	70 - 120	10.085	10.104	-0.0190	+/-1.000	
Toluene-d8	30.00	98.6	85 - 120	14.128	14.128	0.0000	+/-1.000	
GW8004-TB (1101211-03RE1) ug/L				Lab File ID: 0121103.D		Analyzed: 02/09/11 10:38		
Bromofluorobenzene	30.00	103	75 - 120	16.453	16.455	-0.0020	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	8.831	8.862	-0.0310	+/-1.000	
1,2-Dichloroethane-d4	30.00	93.6	70 - 120	10.083	10.104	-0.0210	+/-1.000	
Toluene-d8	30.00	99.9	85 - 120	14.126	14.128	-0.0020	+/-1.000	
GW0034 (1101211-01RE1) ug/L				Lab File ID: 0121101.D		Analyzed: 02/09/11 12:36		
Bromofluorobenzene	30.00	105	75 - 120	16.457	16.455	0.0020	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	8.874	8.862	0.0120	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	10.107	10.104	0.0030	+/-1.000	
Toluene-d8	30.00	96.6	85 - 120	14.13	14.128	0.0020	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B08003
Laboratory ID: 1B08003-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	105	105	40 - 140
Benzene	50.00	50.7	101	80 - 120
Bromobenzene	50.00	53.6	107	75 - 125
Bromochloromethane	50.00	53.1	106	65 - 130
Bromodichloromethane	50.00	55.5	111	75 - 120
Bromoform	50.00	54.1	108	70 - 130
Bromomethane	50.00	48.0	96.0	30 - 145
n-Butylbenzene	50.00	52.7	105	70 - 135
2-Butanone	100.0	105	105	30 - 150
sec-Butylbenzene	50.00	52.1	104	70 - 125
tert-Butylbenzene	50.00	52.2	104	70 - 130
Carbon disulfide	50.00	53.5	107	35 - 160
Carbon tetrachloride	50.00	52.3	105	65 - 140
Chlorobenzene	50.00	52.2	104	80 - 120
Chloroethane	50.00	54.1	108	60 - 135
Chloroform	50.00	49.3	98.6	65 - 135
Chloromethane	50.00	54.1	108	40 - 125
2-Chlorotoluene	50.00	52.2	104	75 - 125
4-Chlorotoluene	50.00	51.1	102	75 - 130
Dibromochloromethane	50.00	52.0	104	60 - 135
1,2-Dibromo-3-chloropropane	50.00	46.4	92.9	50 - 130
1,2-Dibromoethane (EDB)	50.00	50.7	101	80 - 120
Dibromomethane	50.00	52.6	105	75 - 125
1,2-Dichlorobenzene	50.00	50.9	102	70 - 120
1,3-Dichlorobenzene	50.00	49.5	99.1	75 - 125
1,4-Dichlorobenzene	50.00	49.6	99.2	75 - 125
Dichlorodifluoromethane	50.00	62.5	125	30 - 155
1,1-Dichloroethane	50.00	52.2	104	70 - 135
1,2-Dichloroethane	50.00	50.5	101	70 - 130
1,1-Dichloroethene	50.00	55.8	112	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B08003
Laboratory ID: 1B08003-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	50.2	100	70 - 125
trans-1,2-Dichloroethene	50.00	50.6	101	60 - 140
1,2-Dichloropropane	50.00	51.0	102	75 - 125
1,3-Dichloropropane	50.00	49.4	98.9	75 - 125
2,2-Dichloropropane	50.00	50.3	101	70 - 135
1,1-Dichloropropene	50.00	50.8	102	75 - 130
cis-1,3-Dichloropropene	50.00	49.9	99.7	70 - 130
trans-1,3-Dichloropropene	50.00	57.2	114	55 - 140
Ethylbenzene	50.00	59.3	119	75 - 125
Hexachlorobutadiene	50.00	49.0	98.0	50 - 140
2-Hexanone	100.0	119	119	55 - 130
Isopropylbenzene	50.00	54.7	109	75 - 125
p-Isopropyltoluene	50.00	53.7	107	75 - 130
Methylene chloride	50.00	49.0	98.0	55 - 140
Naphthalene	50.00	50.4	101	55 - 140
4-Methyl-2-pentanone	100.0	112	112	60 - 135
Methyl t-Butyl Ether	100.0	99.5	99.5	65 - 125
n-Propylbenzene	50.00	53.6	107	70 - 130
Styrene	50.00	53.6	107	65 - 135
1,1,2,2-Tetrachloroethane	50.00	51.6	103	65 - 130
1,1,1,2-Tetrachloroethane	50.00	53.2	106	80 - 130
Tetrachloroethene	50.00	50.9	102	45 - 150
Toluene	50.00	52.0	104	75 - 120
1,2,3-Trichlorobenzene	50.00	49.3	98.6	55 - 140
1,2,4-Trichlorobenzene	50.00	49.0	98.1	65 - 135
1,1,2-Trichloroethane	50.00	50.3	101	75 - 125
1,1,1-Trichloroethane	50.00	49.9	99.8	65 - 130
Trichloroethene	50.00	52.7	105	70 - 125
Trichlorofluoromethane	50.00	50.9	102	60 - 145
1,2,3-Trichloropropane	50.00	51.2	102	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B08003	Laboratory ID:	1B08003-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	50.7	101	75 - 130
1,2,4-Trimethylbenzene	50.00	52.7	105	75 - 130
Vinyl chloride	50.00	47.6	95.1	50 - 145
m,p-Xylene	100.0	105	105	75 - 130
o-Xylene	50.00	52.9	106	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B08006
Laboratory ID: 1B08006-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	104	104	40 - 140
Benzene	50.00	54.4	109	80 - 120
Bromobenzene	50.00	53.7	107	75 - 125
Bromochloromethane	50.00	56.2	112	65 - 130
Bromodichloromethane	50.00	58.1	116	75 - 120
Bromoform	50.00	58.7	117	70 - 130
Bromomethane	50.00	47.1	94.1	30 - 145
n-Butylbenzene	50.00	51.7	103	70 - 135
2-Butanone	100.0	119	119	30 - 150
sec-Butylbenzene	50.00	50.6	101	70 - 125
tert-Butylbenzene	50.00	51.6	103	70 - 130
Carbon disulfide	50.00	57.8	116	35 - 160
Carbon tetrachloride	50.00	54.7	109	65 - 140
Chlorobenzene	50.00	56.1	112	80 - 120
Chloroethane	50.00	44.7	89.4	60 - 135
Chloroform	50.00	52.5	105	65 - 135
Chloromethane	50.00	55.9	112	40 - 125
2-Chlorotoluene	50.00	51.2	102	75 - 125
4-Chlorotoluene	50.00	53.7	107	75 - 130
Dibromochloromethane	50.00	56.0	112	60 - 135
1,2-Dibromo-3-chloropropane	50.00	45.8	91.5	50 - 130
1,2-Dibromoethane (EDB)	50.00	54.3	109	80 - 120
Dibromomethane	50.00	56.4	113	75 - 125
1,2-Dichlorobenzene	50.00	53.1	106	70 - 120
1,3-Dichlorobenzene	50.00	51.4	103	75 - 125
1,4-Dichlorobenzene	50.00	52.3	105	75 - 125
Dichlorodifluoromethane	50.00	67.7	135	30 - 155
1,1-Dichloroethane	50.00	53.0	106	70 - 135
1,2-Dichloroethane	50.00	55.1	110	70 - 130
1,1-Dichloroethene	50.00	57.8	116	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B08006
Laboratory ID: 1B08006-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	50.9	102	70 - 125
trans-1,2-Dichloroethene	50.00	52.3	105	60 - 140
1,2-Dichloropropane	50.00	55.2	110	75 - 125
1,3-Dichloropropane	50.00	54.0	108	75 - 125
2,2-Dichloropropane	50.00	43.2	86.3	70 - 135
1,1-Dichloropropene	50.00	52.3	105	75 - 130
cis-1,3-Dichloropropene	50.00	51.5	103	70 - 130
trans-1,3-Dichloropropene	50.00	59.0	118	55 - 140
Ethylbenzene	50.00	54.6	109	75 - 125
Hexachlorobutadiene	50.00	52.1	104	50 - 140
2-Hexanone	100.0	120	120	55 - 130
Isopropylbenzene	50.00	58.4	117	75 - 125
p-Isopropyltoluene	50.00	56.9	114	75 - 130
Methylene chloride	50.00	52.7	105	55 - 140
Naphthalene	50.00	55.7	111	55 - 140
4-Methyl-2-pentanone	100.0	110	110	60 - 135
Methyl t-Butyl Ether	100.0	106	106	65 - 125
n-Propylbenzene	50.00	54.4	109	70 - 130
Styrene	50.00	56.2	112	65 - 135
1,1,2,2-Tetrachloroethane	50.00	51.5	103	65 - 130
1,1,1,2-Tetrachloroethane	50.00	56.7	113	80 - 130
Tetrachloroethene	50.00	55.3	111	45 - 150
Toluene	50.00	54.5	109	75 - 120
1,2,3-Trichlorobenzene	50.00	52.7	105	55 - 140
1,2,4-Trichlorobenzene	50.00	52.7	105	65 - 135
1,1,2-Trichloroethane	50.00	52.4	105	75 - 125
1,1,1-Trichloroethane	50.00	55.0	110	65 - 130
Trichloroethene	50.00	56.7	113	70 - 125
Trichlorofluoromethane	50.00	55.4	111	60 - 145
1,2,3-Trichloropropane	50.00	54.1	108	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B08006	Laboratory ID:	1B08006-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	52.3	105	75 - 130
1,2,4-Trimethylbenzene	50.00	51.7	103	75 - 130
Vinyl chloride	50.00	52.6	105	50 - 145
m,p-Xylene	100.0	110	110	75 - 130
o-Xylene	50.00	54.1	108	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B09001
Laboratory ID: 1B09001-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	107	107	40 - 140
Benzene	50.00	56.5	113	80 - 120
Bromobenzene	50.00	57.1	114	75 - 125
Bromochloromethane	50.00	59.7	119	65 - 130
Bromodichloromethane	50.00	59.7	119	75 - 120
Bromoform	50.00	59.9	120	70 - 130
Bromomethane	50.00	49.4	98.8	30 - 145
n-Butylbenzene	50.00	50.8	102	70 - 135
2-Butanone	100.0	111	111	30 - 150
sec-Butylbenzene	50.00	53.2	106	70 - 125
tert-Butylbenzene	50.00	53.3	107	70 - 130
Carbon disulfide	50.00	57.8	116	35 - 160
Carbon tetrachloride	50.00	55.7	111	65 - 140
Chlorobenzene	50.00	56.1	112	80 - 120
Chloroethane	50.00	41.3	82.5	60 - 135
Chloroform	50.00	54.3	109	65 - 135
Chloromethane	50.00	59.3	119	40 - 125
2-Chlorotoluene	50.00	52.2	104	75 - 125
4-Chlorotoluene	50.00	58.7	117	75 - 130
Dibromochloromethane	50.00	58.8	118	60 - 135
1,2-Dibromo-3-chloropropane	50.00	48.9	97.9	50 - 130
1,2-Dibromoethane (EDB)	50.00	57.7	115	80 - 120
Dibromomethane	50.00	57.5	115	75 - 125
1,2-Dichlorobenzene	50.00	52.8	106	70 - 120
1,3-Dichlorobenzene	50.00	61.8	124	75 - 125
1,4-Dichlorobenzene	50.00	49.7	99.4	75 - 125
Dichlorodifluoromethane	50.00	68.4	137	30 - 155
1,1-Dichloroethane	50.00	55.3	111	70 - 135
1,2-Dichloroethane	50.00	59.4	119	70 - 130
1,1-Dichloroethene	50.00	60.3	121	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B09001
Laboratory ID: 1B09001-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	55.9	112	70 - 125
trans-1,2-Dichloroethene	50.00	54.8	110	60 - 140
1,2-Dichloropropane	50.00	54.6	109	75 - 125
1,3-Dichloropropane	50.00	54.5	109	75 - 125
2,2-Dichloropropane	**50.00**	**34.3**	**68.6**	**70 - 135**
1,1-Dichloropropene	50.00	54.9	110	75 - 130
cis-1,3-Dichloropropene	50.00	52.0	104	70 - 130
trans-1,3-Dichloropropene	50.00	59.0	118	55 - 140
Ethylbenzene	50.00	57.5	115	75 - 125
Hexachlorobutadiene	50.00	56.1	112	50 - 140
2-Hexanone	100.0	113	113	55 - 130
Isopropylbenzene	50.00	58.7	117	75 - 125
p-Isopropyltoluene	50.00	57.8	116	75 - 130
Methylene chloride	50.00	53.7	107	55 - 140
Naphthalene	50.00	61.7	123	55 - 140
4-Methyl-2-pentanone	100.0	108	108	60 - 135
Methyl t-Butyl Ether	100.0	106	106	65 - 125
n-Propylbenzene	50.00	56.7	113	70 - 130
Styrene	50.00	57.9	116	65 - 135
1,1,2,2-Tetrachloroethane	50.00	53.6	107	65 - 130
1,1,1,2-Tetrachloroethane	50.00	57.7	115	80 - 130
Tetrachloroethene	50.00	56.6	113	45 - 150
Toluene	50.00	56.5	113	75 - 120
1,2,3-Trichlorobenzene	50.00	59.4	119	55 - 140
1,2,4-Trichlorobenzene	50.00	57.8	116	65 - 135
1,1,2-Trichloroethane	50.00	55.3	111	75 - 125
1,1,1-Trichloroethane	50.00	55.8	112	65 - 130
Trichloroethene	50.00	54.4	109	70 - 125
Trichlorofluoromethane	50.00	57.1	114	60 - 145
1,2,3-Trichloropropane	50.00	57.2	114	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B09001	Laboratory ID:	1B09001-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	55.2	110	75 - 130
1,2,4-Trimethylbenzene	50.00	55.0	110	75 - 130
Vinyl chloride	50.00	53.2	106	50 - 145
m,p-Xylene	100.0	111	111	75 - 130
o-Xylene	50.00	54.8	110	80 - 120

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B08003 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0012	1102004-01	02/08/11 00:00	5.00	5.00
GW0013	1102004-03	02/08/11 00:00	5.00	5.00
Blank	1B08003-BLK1	02/08/11 00:00	5.00	5.00
LCS	1B08003-BS1	02/08/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B08006 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW8005-TB	1102004-05	02/08/11 00:00	5.00	5.00
GW0035	1102024-01	02/08/11 00:00	5.00	5.00
GW0039	1102024-03	02/08/11 00:00	5.00	5.00
GW8006-TB	1102024-05	02/08/11 00:00	5.00	5.00
GW0008	1102028-01	02/08/11 00:00	5.00	5.00
GW8007-TB	1102028-03	02/08/11 00:00	5.00	5.00
Blank	1B08006-BLK1	02/08/11 00:00	5.00	5.00
LCS	1B08006-BS1	02/08/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B09001 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0034	1101211-01RE1	02/09/11 00:00	5.00	5.00
GW8004-TB	1101211-03RE1	02/09/11 00:00	5.00	5.00
Blank	1B09001-BLK1	02/09/11 00:00	5.00	5.00
LCS	1B09001-BS1	02/09/11 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0207TU1.D	Injection Date:	02/07/11
Instrument ID:	MS-VOA4	Injection Time:	07:00
Sequence:	1B03901	Lab Sample ID:	1B03901-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.9	PASS
75	30 - 60% of 95	43.4	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.08	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	76.7	PASS
175	5 - 9% of 174	7.96	PASS
176	95 - 101% of 174	97.6	PASS
177	5 - 9% of 176	6.59	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0208TU1.D	Injection Date:	02/08/11
Instrument ID:	MS-VOA4	Injection Time:	07:45
Sequence:	1B04021	Lab Sample ID:	1B04021-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	19.3	PASS
75	30 - 60% of 95	44.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.19	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	76	PASS
175	5 - 9% of 174	7.34	PASS
176	95 - 101% of 174	95.6	PASS
177	5 - 9% of 176	7.97	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0208TU1E.D	Injection Date:	02/08/11
Instrument ID:	MS-VOA4	Injection Time:	19:35
Sequence:	1B04022	Lab Sample ID:	1B04022-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	17.6	PASS
75	30 - 60% of 95	41.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.52	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	85.3	PASS
175	5 - 9% of 174	8.07	PASS
176	95 - 101% of 174	96.2	PASS
177	5 - 9% of 176	7.14	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0209TU1.D	Injection Date:	02/09/11
Instrument ID:	MS-VOA4	Injection Time:	07:41
Sequence:	1B04102	Lab Sample ID:	1B04102-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.5	PASS
75	30 - 60% of 95	44	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.68	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	63	PASS
175	5 - 9% of 174	8.19	PASS
176	95 - 101% of 174	98.1	PASS
177	5 - 9% of 176	7.5	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03901	Instrument:	MS-VOA4
Calibration:	1039001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B03901-TUN1	0207TU1.D	02/07/11 07:00
Cal Standard	1B03901-CAL1	0207CAL1.D	02/07/11 07:30
Cal Standard	1B03901-CAL2	0207CAL2.D	02/07/11 07:59
Cal Standard	1B03901-CAL3	0207CAL3.D	02/07/11 08:29
Cal Standard	1B03901-CAL4	0207CAL4.D	02/07/11 08:59
Cal Standard	1B03901-CAL5	0207CAL5.D	02/07/11 09:29
Cal Standard	1B03901-CAL6	0207CAL6.D	02/07/11 09:58
Cal Standard	1B03901-CAL7	0207CAL7.D	02/07/11 10:28
Cal Standard	1B03901-CAL8	0207CAL8.D	02/07/11 10:58
Cal Standard	1B03901-CAL9	0207CAL9.D	02/07/11 11:27
Initial Cal Check	1B03901-ICV1	0207ICV1.D	02/07/11 11:57
Cal Standard	1B03901-CALA	0207CALA.D	02/07/11 12:56
Cal Standard	1B03901-CALB	0207CALB.D	02/07/11 13:26
Cal Standard	1B03901-CALC	0207CALC.D	02/07/11 13:56
Cal Standard	1B03901-CALD	0207CALD.D	02/07/11 14:25
Cal Standard	1B03901-CALE	0207CALE.D	02/07/11 14:55
Cal Standard	1B03901-CALF	0207CALF.D	02/07/11 15:25
Cal Standard	1B03901-CALG	0207CALG.D	02/07/11 15:54
Cal Standard	1B03901-CALH	0207CALH.D	02/07/11 16:24
Cal Standard	1B03901-CALI	0207CALI.D	02/07/11 16:54
Initial Cal Check	1B03901-ICV4	0207ICV4.D	02/07/11 17:53

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04021	Instrument:	MS-VOA4
Calibration:	1039001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04021-TUN1	0208TU1.D	02/08/11 07:45
Calibration Check	1B04021-CCV1	0208CC1.D	02/08/11 08:15
LCS	1B08003-BS1	0208LS1.D	02/08/11 08:44
Blank	1B08003-BLK1	0208BL1.D	02/08/11 10:12
GW0012	1102004-01	0200401.D	02/08/11 14:10
GW0013	1102004-03	0200403.D	02/08/11 14:39

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04022	Instrument:	MS-VOA4
Calibration:	1039001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04022-TUN1	0208TU1E.D	02/08/11 19:35
Calibration Check	1B04022-CCV1	0208CC1E.D	02/08/11 20:05
LCS	1B08006-BS1	0208LS1E.D	02/08/11 20:34
Blank	1B08006-BLK1	0208BL1E.D	02/08/11 22:02
GW8005-TB	1102004-05	0200405.D	02/08/11 22:32
GW8006-TB	1102024-05	0202405.D	02/08/11 23:31
GW8007-TB	1102028-03	0202803.D	02/09/11 00:01
GW0035	1102024-01	0202401.D	02/09/11 02:58
GW0039	1102024-03	0202403.D	02/09/11 03:28
GW0008	1102028-01	0202801.D	02/09/11 03:58

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04102	Instrument:	MS-VOA4
Calibration:	1039001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04102-TUN1	0209TU1.D	02/09/11 07:41
Calibration Check	1B04102-CCV1	0209CC1.D	02/09/11 08:11
LCS	1B09001-BS1	0209LS1.D	02/09/11 08:41
Blank	1B09001-BLK1	0209BL1.D	02/09/11 10:08
GW8004-TB	1101211-03RE1	0121103.D	02/09/11 10:38
GW0034	1101211-01RE1	0121101.D	02/09/11 12:36

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04021
Instrument: MS-VOA4
Calibration: 1039001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B04021-CCV1)			Lab File ID: 0208CC1.D			Analyzed: 02/08/11 08:15			
Fluorobenzene	1174097	11.793	1304022	11.784	90	50 - 200	0.0090	+/-0.50	
Chlorobenzene-d5	450903	15.501	481913	15.512	94	50 - 200	-0.0110	+/-0.50	
1,4-Dichlorobenzene-d4	510794	17.384	491484	17.405	104	50 - 200	-0.0210	+/-0.50	
LCS (1B08003-BS1)			Lab File ID: 0208LS1.D			Analyzed: 02/08/11 08:44			
Fluorobenzene	1291473	11.746	1174097	11.793	110	50 - 200	-0.0470	+/-0.50	
Chlorobenzene-d5	455446	15.483	450903	15.501	101	50 - 200	-0.0180	+/-0.50	
1,4-Dichlorobenzene-d4	516170	17.386	510794	17.384	101	50 - 200	0.0020	+/-0.50	
Blank (1B08003-BLK1)			Lab File ID: 0208BL1.D			Analyzed: 02/08/11 10:12			
Fluorobenzene	1269140	11.789	1174097	11.793	108	50 - 200	-0.0040	+/-0.50	
Chlorobenzene-d5	452097	15.497	450903	15.501	100	50 - 200	-0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	555631	17.381	510794	17.384	109	50 - 200	-0.0030	+/-0.50	
GW0012 (1102004-01)			Lab File ID: 0200401.D			Analyzed: 02/08/11 14:10			
Fluorobenzene	1199054	11.771	1174097	11.793	102	50 - 200	-0.0220	+/-0.50	
Chlorobenzene-d5	420896	15.489	450903	15.501	93	50 - 200	-0.0120	+/-0.50	
1,4-Dichlorobenzene-d4	513562	17.382	510794	17.384	101	50 - 200	-0.0020	+/-0.50	
GW0013 (1102004-03)			Lab File ID: 0200403.D			Analyzed: 02/08/11 14:39			
Fluorobenzene	1168735	11.75	1174097	11.793	100	50 - 200	-0.0430	+/-0.50	
Chlorobenzene-d5	436626	15.488	450903	15.501	97	50 - 200	-0.0130	+/-0.50	
1,4-Dichlorobenzene-d4	519658	17.381	510794	17.384	102	50 - 200	-0.0030	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04022
Instrument: MS-VOA4
Calibration: 1039001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B04022-CCV1)			Lab File ID: 0208CC1E.D			Analyzed: 02/08/11 20:05			
Fluorobenzene	1138876	11.746	1304022	11.784	87	50 - 200	-0.0380	+/-0.50	
Chlorobenzene-d5	439553	15.484	481913	15.512	91	50 - 200	-0.0280	+/-0.50	
1,4-Dichlorobenzene-d4	482154	17.387	491484	17.405	98	50 - 200	-0.0180	+/-0.50	
LCS (1B08006-BS1)			Lab File ID: 0208LS1E.D			Analyzed: 02/08/11 20:34			
Fluorobenzene	1230164	11.754	1138876	11.746	108	50 - 200	0.0080	+/-0.50	
Chlorobenzene-d5	438801	15.481	439553	15.484	100	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	525777	17.385	482154	17.387	109	50 - 200	-0.0020	+/-0.50	
Blank (1B08006-BLK1)			Lab File ID: 0208BL1E.D			Analyzed: 02/08/11 22:02			
Fluorobenzene	1204480	11.759	1138876	11.746	106	50 - 200	0.0130	+/-0.50	
Chlorobenzene-d5	428571	15.487	439553	15.484	98	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	552717	17.38	482154	17.387	115	50 - 200	-0.0070	+/-0.50	
GW8005-TB (1102004-05)			Lab File ID: 0200405.D			Analyzed: 02/08/11 22:32			
Fluorobenzene	1211338	11.749	1138876	11.746	106	50 - 200	0.0030	+/-0.50	
Chlorobenzene-d5	435954	15.486	439553	15.484	99	50 - 200	0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	515570	17.38	482154	17.387	107	50 - 200	-0.0070	+/-0.50	
GW8006-TB (1102024-05)			Lab File ID: 0202405.D			Analyzed: 02/08/11 23:31			
Fluorobenzene	1165128	11.751	1138876	11.746	102	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	425561	15.488	439553	15.484	97	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	502177	17.382	482154	17.387	104	50 - 200	-0.0050	+/-0.50	
GW8007-TB (1102028-03)			Lab File ID: 0202803.D			Analyzed: 02/09/11 00:01			
Fluorobenzene	1264692	11.765	1138876	11.746	111	50 - 200	0.0190	+/-0.50	
Chlorobenzene-d5	433144	15.483	439553	15.484	99	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	501223	17.386	482154	17.387	104	50 - 200	-0.0010	+/-0.50	
GW0035 (1102024-01)			Lab File ID: 0202401.D			Analyzed: 02/09/11 02:58			
Fluorobenzene	1153638	11.745	1138876	11.746	101	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	426393	15.483	439553	15.484	97	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	497651	17.386	482154	17.387	103	50 - 200	-0.0010	+/-0.50	
GW0039 (1102024-03)			Lab File ID: 0202403.D			Analyzed: 02/09/11 03:28			
Fluorobenzene	1137182	11.759	1138876	11.746	100	50 - 200	0.0130	+/-0.50	
Chlorobenzene-d5	407272	15.487	439553	15.484	93	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	497657	17.38	482154	17.387	103	50 - 200	-0.0070	+/-0.50	
GW0008 (1102028-01)			Lab File ID: 0202801.D			Analyzed: 02/09/11 03:58			
Fluorobenzene	1129341	11.775	1138876	11.746	99	50 - 200	0.0290	+/-0.50	
Chlorobenzene-d5	432254	15.493	439553	15.484	98	50 - 200	0.0090	+/-0.50	
1,4-Dichlorobenzene-d4	516604	17.386	482154	17.387	107	50 - 200	-0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04102
Instrument: MS-VOA4
Calibration: 1039001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B04102-CCV1)			Lab File ID: 0209CC1.D			Analyzed: 02/09/11 08:11			
Fluorobenzene	1080159	11.771	1304022	11.784	83	50 - 200	-0.0130	+/-0.50	
Chlorobenzene-d5	432500	15.488	481913	15.512	90	50 - 200	-0.0240	+/-0.50	
1,4-Dichlorobenzene-d4	464431	17.382	491484	17.405	94	50 - 200	-0.0230	+/-0.50	
LCS (1B09001-BS1)			Lab File ID: 0209LS1.D			Analyzed: 02/09/11 08:41			
Fluorobenzene	1187156	11.759	1080159	11.771	110	50 - 200	-0.0120	+/-0.50	
Chlorobenzene-d5	420838	15.487	432500	15.488	97	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	482695	17.39	464431	17.382	104	50 - 200	0.0080	+/-0.50	
Blank (1B09001-BLK1)			Lab File ID: 0209BL1.D			Analyzed: 02/09/11 10:08			
Fluorobenzene	1198302	11.761	1080159	11.771	111	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	430754	15.489	432500	15.488	100	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	489892	17.392	464431	17.382	105	50 - 200	0.0100	+/-0.50	
GW8004-TB (1101211-03RE1)			Lab File ID: 0121103.D			Analyzed: 02/09/11 10:38			
Fluorobenzene	1220338	11.759	1080159	11.771	113	50 - 200	-0.0120	+/-0.50	
Chlorobenzene-d5	414949	15.487	432500	15.488	96	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	499052	17.39	464431	17.382	107	50 - 200	0.0080	+/-0.50	
GW0034 (1101211-01RE1)			Lab File ID: 0121101.D			Analyzed: 02/09/11 12:36			
Fluorobenzene	1111144	11.773	1080159	11.771	103	50 - 200	0.0020	+/-0.50	
Chlorobenzene-d5	408686	15.491	432500	15.488	94	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	505574	17.384	464431	17.382	109	50 - 200	0.0020	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1039001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 2/7/2011 7:30:41AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein	2.501	4.152623E-02	5.002	4.142119E-02	10	4.206971E-02	25.01	3.394957E-02	50.02	3.830479E-02	250.1	4.238086E-02
Acrylonitrile	2.499	6.970656E-02	4.998	7.413922E-02	9.996	7.531913E-02	24.99	0.0618476	49.98	7.185677E-02	249.9	8.521366E-02
Benzene	0.5	0.778119	1	0.8152918	2	0.8600903	5	0.739877	10	0.7896258	50	0.8794969
Bromobenzene	0.5	0.71772	1	0.7359208	2	0.7348263	5	0.6538562	10	0.6646496	50	0.7759657
Bromochloromethane	0.5	0.1254828	1	0.1342683	2	0.1596019	5	0.1357289	10	0.1510112	50	0.1712886
Tert-Amyl Methyl Ether	0.5	~~1.197054~~	1	0.8840889	2	0.7587682	5	0.5786786	10	0.593726	50	0.6358589
Bromodichloromethane	0.5	0.2788406	1	0.303277	2	0.30093	5	0.2642617	10	0.2884465	50	0.3385899
Bromoform	0.5	0.4867608	1	0.5283487	2	0.5448951	5	0.4811944	10	0.5532868	50	0.6757829
Bromomethane	0.5	0.1235495	1	0.1446107	2	0.1062301	5	9.196699E-02	10	9.537798E-02	50	0.1427209
Bromofluorobenzene	30	0.9678776	30	0.9406434	30	0.9893832	30	0.9200337	30	0.9633404	30	0.9985577
n-Butylbenzene	0.5	1.144099	1	1.270553	2	1.309962	5	1.096785	10	1.155022	50	1.308219
2-Butanone												
sec-Butylbenzene	0.5	1.66381	1	1.742697	2	1.870273	5	1.528009	10	1.599074	50	1.793668
tert-Butylbenzene	0.5	1.190509	1	1.227198	2	1.24904	5	1.116889	10	1.140256	50	1.283874
Carbon disulfide	0.5	0.7458378	1	0.7754487	2	0.7578437	5	0.6626988	10	0.688709	50	0.7946224
Carbon tetrachloride	0.5	0.2510105	1	0.2693112	2	0.2881806	5	0.2470081	10	0.2684516	50	0.316859
Chlorobenzene	0.5	1.584466	1	1.662913	2	1.723347	5	1.458434	10	1.571073	50	1.765307
Chloroethane	0.5	0.1641032	1	0.1740887	2	0.1314322	5	0.1607545	10	0.1372189	50	0.180331
Chloroform	0.5	0.4646144	1	0.4541751	2	0.4375327	5	0.3777413	10	0.4034578	50	0.4514354
2-Chloroethyl vinyl ether	0.9975	0.1240394	1.995	0.1197033	3.99	0.1356807	9.975	0.1227722	19.95	0.1391346	99.75	0.1532498
Chloromethane	0.5	0.2249788	1	0.2112893	2	0.2116726	5	0.1659674	10	0.1680107	50	0.1998173
1-Chlorohexane	0.501	1.625229	1.002	1.531513	2.004	1.49712	5.01	1.268525	10.02	1.316753	50.1	1.431651
2-Chlorotoluene	0.5	1.441471	1	1.528357	2	1.629262	5	1.29342	10	1.299	50	1.448114
4-Chlorotoluene	0.5	1.345687	1	1.678218	2	1.621336	5	1.341733	10	1.419661	50	1.533932
Cyclohexane	0.5	0.2864837	1	0.2774894	2	0.2813893	5	0.2492746	10	0.2539741	50	0.2978029
Dibromochloromethane	0.5	0.6638101	1	0.7089993	2	0.7798496	5	0.6456908	10	0.7271221	50	0.8709974
1,2-Dibromo-3-chloropropane	0.5	0.1134695	1	0.1227088	2	0.1319349	5	0.1133792	10	0.1328017	50	0.1620074
1,2-Dibromoethane (EDB)	0.5	0.6254078	1	0.6446083	2	0.6704798	5	0.5640158	10	0.6132271	50	0.7439216
Dibromomethane	0.5	0.1530881	1	0.1798749	2	0.1711415	5	0.1511598	10	0.1612561	50	0.1824719
1,2-Dichlorobenzene	0.5	1.053835	1	1.130812	2	1.11045	5	0.987201	10	1.033857	50	1.152756

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1039001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 2/7/2011 7:30:41AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	0.5	1.195927	1	1.246	2	1.10604	5	0.9791318	10	1.085418	50	1.113399
1,4-Dichlorobenzene	0.5	1.277912	1	1.250535	2	1.262106	5	1.148084	10	1.239656	50	1.283196
Dichlorodifluoromethane	0.5	0.2296546	1	0.1946367	2	0.22037	5	0.2070284	10	0.2168869	50	0.2394676
1,1-Dichloroethane	0.5	0.3720422	1	0.4104365	2	0.4366653	5	0.3611866	10	0.3895418	50	0.4461858
1,2-Dichloroethane	0.5	0.2430076	1	0.2844375	2	0.2850646	5	0.2627554	10	0.2747684	50	0.317187
1,1-Dichloroethene	0.5	0.2092428	1	0.2184879	2	0.2310992	5	0.1880845	10	0.2071083	50	0.2342904
cis-1,2-Dichloroethene	0.5	0.2763228	1	0.2708831	2	0.2733538	5	0.2409453	10	0.2649898	50	0.2866975
trans-1,2-Dichloroethene	0.5	0.2316778	1	0.2791524	2	0.2704204	5	0.2204573	10	0.2485423	50	0.2760538
1,2-Dichloroethene (total)	1	0.2540003	2	0.2750177	4	0.2718871	10	0.2307013	20	0.2567661	100	0.2813756
1,2-Dichloropropane	0.5	0.1983176	1	0.2252309	2	0.2253123	5	0.1952239	10	0.2052834	50	0.2291204
1,3-Dichloropropane	0.5	0.8560706	1	0.8644782	2	0.9414785	5	0.8017535	10	0.8598185	50	0.9695278
2,2-Dichloropropane	0.5	0.3040181	1	0.3499315	2	0.3249793	5	0.2679353	10	0.3053818	50	0.3359196
1,1-Dichloropropene	0.5	0.2696238	1	0.30068	2	0.3059408	5	0.2686105	10	0.2891436	50	0.3246194
cis-1,3-Dichloropropene	0.5	0.3021297	1	0.3344407	2	0.3675535	5	0.3155738	10	0.3462115	50	0.3934391
trans-1,3-Dichloropropene	0.5	0.6832605	1	0.8126095	2	0.8553241	5	0.7160067	10	0.8198452	50	0.9270638
Diisopropyl Ether	0.5	0.7690821	1	0.8165675	2	0.8134299	5	0.6973428	10	0.7754005	50	0.8620326
Ethylbenzene	0.5	2.467344	1	2.442914	2	2.632981	5	2.148705	10	2.335549	50	2.690279
Ethyl tert-Butyl Ether	0.5	0.6098795	1	0.6444152	2	0.6402339	5	0.5413526	10	0.6333637	50	0.7095217
Ethyl Methacrylate	0.5	0.5164352	1	0.5903242	2	0.6492831	5	0.5458834	10	0.6880525	50	0.8116846
Hexachlorobutadiene	0.5	0.3757782	1	0.292643	2	0.2983346	5	0.2398423	10	0.2664858	50	0.2680735
2-Hexanone												
Iodomethane	0.5	0.1849646	1	0.2276001	2	0.2543609	5	0.2351847	10	0.2835001	50	0.3931091
Isopropylbenzene	0.5	1.90889	1	1.850683	2	2.170431	5	1.706227	10	1.889779	50	2.088411
p-Isopropyltoluene	0.5	1.339758	1	1.42987	2	1.446442	5	1.224103	10	1.330571	50	1.429318
Methylene chloride	0.5	0.574586	1	0.5152497	2	0.3864437	5	0.2943444	10	0.2815944	50	0.2856696
Methyl Acetate	0.5	0.22916	1	0.1794877	2	0.1847584	5	0.1337363	10	0.1617343	50	0.1771065
Methylcyclohexane	0.5	0.2218316	1	0.2147291	2	0.2293414	5	0.1988927	10	0.2174864	50	0.2274178
Naphthalene	0.5	1.246835	1	1.207401	2	1.362552	5	1.157201	10	1.396832	50	1.463568
Methyl Methacrylate	0.5		1	0.1651132	2	0.1638023	5	0.1403232	10	0.1560194	50	0.1870903
4-Methyl-2-pentanone												
Methyl t-Butyl Ether	0.5	0.5993139	1	0.5546372	2	0.5869191	5	0.5091922	10	0.5598626	50	0.6318372

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1039001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 2/7/2011 7:30:41AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	2.037646	1	2.228666	2	2.175046	5	1.906634	10	1.943753	50	2.286057
Styrene	0.5	1.430733	1	1.618735	2	1.722403	5	1.493592	10	1.578984	50	1.842444
1,1,2,2-Tetrachloroethane	0.5	0.53852	1	0.5865579	2	0.5940993	5	0.5168621	10	0.5496999	50	0.616987
1,1,1,2-Tetrachloroethane	0.5	0.5822676	1	0.6514098	2	0.6478179	5	0.5695504	10	0.6146874	50	0.6990274
tert-Butyl alcohol	2.5	1.593375E-02	5	1.581423E-02	10	1.726481E-02	25	1.421081E-02	50	0.0175234	250	1.991447E-02
Tetrachloroethene	0.5	0.7475967	1	0.7460574	2	0.7885106	5	0.66974	10	0.7120601	50	0.8298451
Toluene	0.5	1.397692	1	1.398294	2	1.478364	5	1.219774	10	1.286434	50	1.408395
1,2,3-Trichlorobenzene	0.5	0.5632584	1	0.5362357	2	0.6055696	5	0.4761856	10	0.5897942	50	0.6169605
1,2,4-Trichlorobenzene	0.5	0.6165175	1	0.6386497	2	0.6741205	5	0.5600916	10	0.6050536	50	0.7096591
1,1,2-Trichloroethane	0.5	0.4761628	1	0.471522	2	0.5447323	5	0.4107468	10	0.4735039	50	0.5381214
1,1,1-Trichloroethane	0.5	0.2858543	1	0.3240756	2	0.321772	5	0.2787577	10	0.2990007	50	0.3493643
Tetrahydrofuran	0.5		1	5.879651E-02	2	5.522091E-02	5	4.552784E-02	10	4.834803E-02	50	5.682407E-02
Trichloroethene	0.5	0.224664	1	0.2414734	2	0.2423306	5	0.2129307	10	0.2315309	50	0.261202
Trichlorofluoromethane	0.5	0.3692547	1	0.3774503	2	0.3847087	5	0.3440936	10	0.3631134	50	0.4023697
1,2,3-Trichloropropane	0.5	0.1998662	1	0.1966052	2	0.1920076	5	0.1511211	10	0.1825058	50	0.2201321
1,3,5-Trimethylbenzene	0.5	1.389643	1	1.480302	2	1.520051	5	1.347774	10	1.438658	50	1.704915
1,2,4-Trimethylbenzene	0.5	1.584893	1	1.574864	2	1.596096	5	1.382136	10	1.365803	50	1.588125
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.228081	1	0.2386259	2	0.2525347	5	0.2081145	10	0.2281382	50	0.2375149
Vinyl chloride	0.5	0.1742641	1	0.1810823	2	0.1774876	5	0.163649	10	0.1692312	50	0.1797419
m,p-Xylene	1	1.976032	2	1.958043	4	2.085612	10	1.713494	20	1.833643	100	1.959378
o-Xylene	0.5	1.941183	1	1.934651	2	2.127224	5	1.754075	10	1.863623	50	2.090857
Vinyl acetate	0.9995		1.999	0.190586	3.998	0.2213996	9.995	0.1911902	19.99	0.2160289	99.95	0.2773694
Xylenes (total)	1.5	1.964416	3	1.950246	6	2.099482	15	1.727021	30	1.843637	150	2.003204
Dibromofluoromethane	30	0.325012	30	0.3269315	30	0.3174149	30	0.3281362	30	0.3226715	30	0.3320444
1,2-Dichloroethane-d4	30	0.0643974	30	6.627307E-02	30	6.218726E-02	30	6.198734E-02	30	6.554103E-02	30	6.700661E-02
Toluene-d8	30	2.409996	30	2.444371	30	2.409777	30	2.372545	30	2.356909	30	2.53709
tert-Amyl alcohol	2.5		5	6.633686E-03	10	9.621999E-03	25	7.634247E-03	50	1.026869E-02	250	0.0122729
tert-Amyl ethyl ether	0.5	0.4568364	1	0.5088483	2	0.5250438	5	0.4487953	10	0.5018835	50	0.5481365

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1039001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 2/7/2011 7:30:41AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone							1		2	0.0658061	4	0.0728068
Acrolein	500.2	0.0413036	750.3	3.961258E-02	1000	3.876816E-02						
Acrylonitrile	499.8	7.750116E-02	749.7	7.882312E-02	999.6	7.652937E-02						
Benzene	100	0.8516983	150	0.8512852	200	0.7996691						
Bromobenzene	100	0.7068939	150	0.7216877	200	0.7061684						
Bromochloromethane	100	0.1629999	150	0.1618392	200	0.1534695						
Tert-Amyl Methyl Ether	100	0.6158965	150	0.6145088	200	0.6015948						
Bromodichloromethane	100	0.3247043	150	0.3235724	200	0.3025021						
Bromoform	100	0.6286419	150	0.6269501	200	0.603962						
Bromomethane	100	0.1459236	150	0.1601583	200	0.1586283						
Bromofluorobenzene	30	0.9423679	30	0.9528659	30	0.9414127						
n-Butylbenzene	100	1.243676	150	1.244428	200	1.186713						
2-Butanone							1		2	5.169885E-02	4	7.682525E-02
sec-Butylbenzene	100	1.656595	150	1.627556	200	1.578022						
tert-Butylbenzene	100	1.143838	150	1.184551	200	1.146998						
Carbon disulfide	100	0.7748302	150	0.780681	200	0.741686						
Carbon tetrachloride	100	0.3010489	150	0.2985462	200	0.2828049						
Chlorobenzene	100	1.495854	150	1.487447	200	1.376811						
Chloroethane	100	0.1513388	150	0.1503029	200	0.1623873						
Chloroform	100	0.4356729	150	0.431589	200	0.4190687						
2-Chloroethyl vinyl ether	199.5	0.1415964	299.2	0.1349193	399	0.1273779						
Chloromethane	100	0.1864843	150	0.1982091	200	0.1853412						
1-Chlorohexane	100.2	1.278179	150.3	1.182441	200.4	1.065207						
2-Chlorotoluene	100	1.370853	150	1.484266	200	1.327689						
4-Chlorotoluene	100	1.343808	150	1.450363	200	1.382832						
Cyclohexane	100	0.2787845	150	0.2720681	200	0.2544587						
Dibromochloromethane	100	0.771313	150	0.7654528	200	0.7293965						
1,2-Dibromo-3-chloropropane	100	0.1606349	150	0.1616619	200	0.1666479						
1,2-Dibromoethane (EDB)	100	0.6572733	150	0.6815473	200	0.6279306						
Dibromomethane	100	0.1798381	150	0.1701141	200	0.1696594						
1,2-Dichlorobenzene	100	1.077273	150	1.068258	200	1.028853						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1039001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 2/7/2011 7:30:41AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	100	1.184229	150	1.039947	200	1.036882						
1,4-Dichlorobenzene	100	1.153287	150	1.033937	200	1.021182						
Dichlorodifluoromethane	100	0.2359321	150	0.2327664	200	0.2273232						
1,1-Dichloroethane	100	0.419726	150	0.4316699	200	0.4057132						
1,2-Dichloroethane	100	0.2962461	150	0.3075407	200	0.2886516						
1,1-Dichloroethene	100	0.2176809	150	0.2253321	200	0.2161193						
cis-1,2-Dichloroethene	100	0.2802155	150	0.2774377	200	0.269272						
trans-1,2-Dichloroethene	100	0.2639769	150	0.2606461	200	0.2544276						
1,2-Dichloroethene (total)	200	0.2720962	300	0.2690419	400	0.2618498						
1,2-Dichloropropane	100	0.2263896	150	0.2179578	200	0.2102209						
1,3-Dichloropropane	100	0.8818327	150	0.8728979	200	0.8073187						
2,2-Dichloropropane	100	0.3206966	150	0.3143398	200	0.2999092						
1,1-Dichloropropene	100	0.3116172	150	0.3094276	200	0.2984444						
cis-1,3-Dichloropropene	100	0.36589	150	0.3629244	200	0.3410242						
trans-1,3-Dichloropropene	100	0.8515892	150	0.8560765	200	0.8046995						
Diisopropyl Ether	100	0.8141731	150	0.8245506	200	0.7742325						
Ethylbenzene	100	2.201212	150	2.334571	200	2.004726						
Ethyl tert-Butyl Ether	100	0.6717369	150	0.6827483	200	0.6637785						
Ethyl Methacrylate	100	0.7020391	150	0.6872813	200	0.6736913						
Hexachlorobutadiene	100	0.2874083	150	0.2865507	200	0.2812825						
2-Hexanone							1	0.2624953	2	0.2492618	4	0.3040456
Iodomethane	100	0.3835393	150	0.3965903	200	0.3693401						
Isopropylbenzene	100	1.845225	150	1.826654	200	1.600579						
p-Isopropyltoluene	100	1.304453	150	1.245342	200	1.127652						
Methylene chloride	100	0.272905	150	0.2745239	200	0.2606038						
Methyl Acetate	100	0.1730421	150	0.1722917	200	0.1679216						
Methylcyclohexane	100	0.2098838	150	0.207984	200	0.1877819						
Naphthalene	100	1.463803	150	1.449245	200	1.441422						
Methyl Methacrylate	100	0.1790377	150	0.184229	200	0.1721687						
4-Methyl-2-pentanone							1	0.1681225	2	0.1699763	4	0.1676157
Methyl t-Butyl Ether	100	0.5930313	150	0.6196673	200	0.6079042						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1039001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 2/7/2011 7:30:41AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	100	2.140836	150	2.056655	200	1.925151						
Styrene	100	1.639645	150	1.539873	200	1.373035						
1,1,2,2-Tetrachloroethane	100	0.56719	150	0.5444665	200	0.5409201						
1,1,1,2-Tetrachloroethane	100	0.6372228	150	0.6143552	200	0.5666373						
tert-Butyl alcohol	500	1.816844E-02	750	1.844337E-02	1000	1.867496E-02						
Tetrachloroethene	100	0.735467	150	0.749357	200	0.6611077						
Toluene	100	1.367465	150	1.297076	200	1.221637						
1,2,3-Trichlorobenzene	100	0.6568684	150	0.6397795	200	0.6121554						
1,2,4-Trichlorobenzene	100	0.6993379	150	0.7073377	200	0.6828811						
1,1,2-Trichloroethane	100	0.4817367	150	0.4829779	200	0.4580208						
1,1,1-Trichloroethane	100	0.341168	150	0.3395912	200	0.3251119						
Tetrahydrofuran	100	5.522674E-02	150	5.557544E-02	200	5.642194E-02						
Trichloroethene	100	0.2473377	150	0.2342488	200	0.233355						
Trichlorofluoromethane	100	0.384724	150	0.3750431	200	0.3535054						
1,2,3-Trichloropropane	100	0.1871261	150	0.1838681	200	0.1782138						
1,3,5-Trimethylbenzene	100	1.453817	150	1.448231	200	1.359315						
1,2,4-Trimethylbenzene	100	1.532752	150	1.470361	200	1.45087						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2412547	150	0.235551	200	0.2194815						
Vinyl chloride	100	0.1657433	150	0.1534188	200	0.135877						
m,p-Xylene	200	1.710295	300	1.580975	400	1.39134						
o-Xylene	100	1.847735	150	1.723513	200	1.530825						
Vinyl acetate	199.9	0.2604059	299.8	0.263417	399.8	0.2689706						
Xylenes (total)	300	1.756108	450	1.628487	600	1.437835						
Dibromofluoromethane	30	0.3219746	30	0.3238055	30	0.326197						
1,2-Dichloroethane-d4	30	6.806108E-02	30	0.0679893	30	6.799579E-02						
Toluene-d8	30	2.465892	30	2.525914	30	2.413122						
tert-Amyl alcohol	500	1.193594E-02	750	1.203575E-02	1000	1.286371E-02						
tert-Amyl ethyl ether	100	0.4984309	150	0.5103	200	0.4893273						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1039001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 2/7/2011 7:30:41AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	10	0.0577326	20	5.612703E-02	100	6.552179E-02	200	6.017055E-02	300	6.784844E-02	400	6.183006E-02
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone	10	0.0825538	20	7.702954E-02	100	9.930995E-02	200	9.491099E-02	300	0.1061759	400	9.941335E-02
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1039001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 2/7/2011 7:30:41AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone	10	0.3007911	20	0.2908796	100	0.3678375	200	0.3394667	300	0.3718027	400	0.3290677
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone	10	0.1666001	20	0.1590799	100	0.1881945	200	0.1826218	300	0.1883294	400	0.170369
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1039001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 2/7/2011 7:30:41AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1039001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	2/7/2011 7:30:41AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	6.348042E-02	8.759215	4.83825	0.6050106			15	
Acrolein	0.0399263	6.691411	4.695889	0.5531169			15	
Acrylonitrile	7.454851E-02	8.711723	5.439889	0.5153655			15	
Benzene	0.8183504	5.572691	11.37744	0.1289322			15	
Bromobenzene	0.7130765	5.196317	16.62456	1.955286E-02			15	
Bromochloromethane	0.1506323	10.27461	8.500111	0.2479724			15	
Tert-Amyl Methyl Ether	0.6603901	16.08493	11.77413	8.136586E-02	0.9997032		0.995	
Bromodichloromethane	0.3027916	7.799062	12.50144	7.484039E-02			15	
Bromoform	0.5699803	11.84824	15.93444	0.0262941			SPCC (0.1)	
Bromomethane	0.1299074	20.38406	3.964	0.7064521	0.9983959		0.995	
Bromofluorobenzene	0.957387	2.621998	16.47022	2.732607E-02			15	
n-Butylbenzene	1.217717	6.214575	17.71833	1.370785E-02			15	
2-Butanone	0.0859897	20.60077	7.865625	0.5470501	0.9974979		0.995	
sec-Butylbenzene	1.6733	6.555521	17.30422	5.481704E-03			15	
tert-Butylbenzene	1.187017	4.74989	17.15178	2.582753E-02			15	
Carbon disulfide	0.7469286	5.919231	5.862778	0.440633			15	
Carbon tetrachloride	0.2803579	8.360972	11.31178	0.1285976			15	
Chlorobenzene	1.569517	8.202246	15.53778	2.079923E-02			SPCC (0.3)	
Chloroethane	0.1568842	10.20786	4.106444	0.5837799			15	
Chloroform	0.4305875	6.299133	8.627111	0.3043567			CCC (20)	
2-Chloroethyl vinyl ether	0.1331637	8.077245	13.148	5.826453E-02			15	
Chloromethane	0.1946412	10.2938	3.400889	0.9415026			SPCC (0.1)	
1-Chlorohexane	1.35518	13.27346	15.50156	2.818818E-02			15	
2-Chlorotoluene	1.424715	7.937675	16.83056	1.239489E-02			15	
4-Chlorotoluene	1.457508	8.654439	16.88667	1.961681E-02			15	
Cyclohexane	0.2724139	6.070048	11.16256	9.157351E-02			15	
Dibromochloromethane	0.7402924	9.101033	14.52556	2.965746E-02			15	
1,2-Dibromo-3-chloropropane	0.1405829	15.73538	18.02822	2.127093E-02	0.9995964		0.995	
1,2-Dibromoethane (EDB)	0.6476013	7.740743	14.76	3.456003E-02			15	
Dibromomethane	0.1687338	6.803459	12.30767	7.306886E-02			15	
1,2-Dichlorobenzene	1.071477	4.931397	17.68856	5.171756E-03			15	
1,3-Dichlorobenzene	1.109664	7.765275	17.37756	2.411992E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1039001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	2/7/2011 7:30:41AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.185544	8.618759	17.42233	1.642186E-02			15	
Dichlorodifluoromethane	0.222674	6.545885	3.215556	0.8959896	0.9995739		0.995	
1,1-Dichloroethane	0.4081297	7.150762	7.000111	0.3331365			SPCC (0.1)	
1,2-Dichloroethane	0.2844065	7.905266	10.354	0.1944757			15	
1,1-Dichloroethene	0.2163828	6.456213	5.364222	0.4507894			CCC (20)	
cis-1,2-Dichloroethene	0.2711242	4.789396	8.171444	0.3160574			15	
trans-1,2-Dichloroethene	0.2561505	7.739406	6.552	0.4156797			15	
1,2-Dichloroethene (total)	0.2636373	5.754159	0	0			15	
1,2-Dichloropropane	0.2147841	6.014639	12.37556	6.213964E-02			CCC (20)	
1,3-Dichloropropane	0.8727974	6.276488	14.29856	3.394906E-02			15	
2,2-Dichloropropane	0.313679	7.502355	8.822333	0.2473015			15	
1,1-Dichloropropene	0.2975675	6.332644	11.03133	0.1343592			15	
cis-1,3-Dichloropropene	0.3476874	8.122396	13.38378	4.350229E-02			15	
trans-1,3-Dichloropropene	0.8140528	9.161065	13.89211	5.186918E-02			15	
Diisopropyl Ether	0.7940902	5.899205	7.926	0.2693061			15	
Ethylbenzene	2.362031	9.458271	15.69978	3.074885E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.6441145	7.522742	8.861667	0.2891787			15	
Ethyl Methacrylate	0.6516305	13.77595	14.37756	3.478868E-02			15	
Hexachlorobutadiene	0.2884888	12.88731	19.38244	1.708899E-02			15	
2-Hexanone	0.3128498	13.7275	14.48856	9.348562E-02			15	
Iodomethane	0.3031321	27.28541	5.409222	0.5303687	0.9980688		0.995	
Isopropylbenzene	1.87632	9.265289	16.43856	2.487316E-02			15	
p-Isopropyltoluene	1.319723	8.148758	17.42456	3.065426E-03			15	
Methylene chloride	0.3495467	33.6408	5.562556	0.4271772	0.9989096		0.995	
Methyl Acetate	0.175471	14.23463	5.605444	0.4972246			15	
Methylcyclohexane	0.2128165	6.316372	13.12722	3.972675E-02			15	
Naphthalene	1.354318	8.829272	19.35422	1.667645E-02			15	
Methyl Methacrylate	0.168473	9.252076	12.81587	4.721109E-02			15	
4-Methyl-2-pentanone	0.1734344	5.979284	13.54967	9.661555E-02			15	
Methyl t-Butyl Ether	0.5847072	6.482375	6.761333	0.4204904			15	
n-Propylbenzene	2.077827	6.638009	16.75511	2.126317E-02			15	
Styrene	1.58216	9.16915	16.11311	2.672767E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1039001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 2/7/2011 7:30:41AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.5617003	5.691063	16.17989	9.733366E-03			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.6203306	7.021629	15.47844	2.186932E-02			15	
tert-Butyl alcohol	1.732758E-02	10.08898	5.375222	0.4514074			15	
Tetrachloroethene	0.7377491	7.192229	14.94178	2.707858E-02			15	
Toluene	1.341681	6.690052	14.22067	4.147638E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.5885341	9.48889	19.56233	8.612995E-04			15	
1,2,4-Trichlorobenzene	0.6548499	8.023626	19.12722	1.896605E-02			15	
1,1,2-Trichloroethane	0.4819472	8.349452	14.03789	4.770722E-02			15	
1,1,1-Trichloroethane	0.3182995	7.871372	10.60056	0.193781			15	
Tetrahydrofuran	5.399268E-02	8.459851	9.46525	0.3380589			15	
Trichloroethene	0.2365637	5.829828	12.45456	8.455537E-02			15	
Trichlorofluoromethane	0.3726959	4.731481	4.709	0.5566022			15	
1,2,3-Trichloropropane	0.1879384	9.896004	16.285	1.047502E-02			15	
1,3,5-Trimethylbenzene	1.460301	7.356123	16.95344	0.0313921			15	
1,2,4-Trimethylbenzene	1.5051	6.027629	17.22744	0.0244513			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.232144	5.599071	5.630444	0.4391774			15	
Vinyl chloride	0.1667217	8.727087	3.568333	0.8590323			CCC (20)	
m,p-Xylene	1.800979	12.33127	15.85878	2.719885E-02			15	
o-Xylene	1.868187	9.917691	16.169	2.421734E-02			15	
Vinyl acetate	0.236171	15.03677	7.247875	0.2722697	0.9995625		0.995	
Xylenes (total)	1.823382	11.39571	0	0			15	
Dibromofluoromethane	0.3249097	1.278704	8.904444	0.2859415			15	
1,2-Dichloroethane-d4	6.571543E-02	3.64755	10.14467	0.2284643			15	
Toluene-d8	2.437291	2.571323	14.14733	0.023144			15	
tert-Amyl alcohol	1.040837E-02	22.10921	9.9325	0.3054316	0.9981958		0.995	
tert-Amyl ethyl ether	0.4986224	6.228662	13.043	0.0452972			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0207ICV1.D	Calibration Date:	02/07/11 07:30
Sequence:	1B03901	Injection Date:	02/07/11
Lab Sample ID:	1B03901-ICV1	Injection Time:	11:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzene	A	100.0	104.8	0.8183504	0.8575312		4.8	20
Bromobenzene	A	100.0	103.5	0.7130765	0.7382378		3.5	20
Bromochloromethane	A	100.0	105.8	0.1506323	0.1593131		5.8	20
Bromodichloromethane	A	100.0	108.0	0.3027916	0.3269522		8.0	20
Bromoform	A	100.0	105.9	0.5699803	0.6036491	0.1	5.9	20
Bromomethane	L	100.0	102.4	0.1299074	0.1595994		2.4	20
n-Butylbenzene	A	100.0	103.5	1.217717	1.259747		3.5	20
sec-Butylbenzene	A	100.0	97.49	1.6733	1.631307		-2.5	20
tert-Butylbenzene	A	100.0	104.5	1.187017	1.240223		4.5	20
Carbon disulfide	A	100.0	108.4	0.7469286	0.8094463		8.4	20
Carbon tetrachloride	A	100.0	103.0	0.2803579	0.2886493		3.0	20
Chlorobenzene	A	100.0	99.64	1.569517	1.563876	0.3	-0.4	20
Chloroethane	A	100.0	107.7	0.1568842	0.1689537		7.7	20
Chloroform	A	100.0	101.7	0.4305875	0.4378576		1.7	20
Chloromethane	A	100.0	111.5	0.1946412	0.2170477	0.1	11.5	20
2-Chlorotoluene	A	100.0	102.4	1.424715	1.458813		2.4	20
4-Chlorotoluene	A	100.0	108.5	1.457508	1.581263		8.5	20
Dibromochloromethane	A	100.0	101.6	0.7402924	0.7522972		1.6	20
1,2-Dibromo-3-chloropropane	L	100.0	94.73	0.1405829	0.1548509		-5.3	20
1,2-Dibromoethane (EDB)	A	100.0	100.7	0.6476013	0.6519374		0.7	20
Dibromomethane	A	100.0	106.4	0.1687338	0.1795799		6.4	20
1,2-Dichlorobenzene	A	100.0	105.9	1.071477	1.134417		5.9	20
1,3-Dichlorobenzene	A	100.0	106.1	1.109664	1.177845		6.1	20
1,4-Dichlorobenzene	A	100.0	97.22	1.185544	1.152535		-2.8	20
Dichlorodifluoromethane	L	100.0	118.4	0.222674	0.2729908		18.4	20
1,1-Dichloroethane	A	100.0	102.7	0.4081297	0.4192552	0.1	2.7	20
1,2-Dichloroethane	A	100.0	104.6	0.2844065	0.2975996		4.6	20
1,1-Dichloroethene	A	100.0	112.6	0.2163828	0.2437113		12.6	20
cis-1,2-Dichloroethene	A	100.0	105.4	0.2711242	0.2857824		5.4	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0207ICV1.D	Calibration Date:	02/07/11 07:30
Sequence:	1B03901	Injection Date:	02/07/11
Lab Sample ID:	1B03901-ICV1	Injection Time:	11:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
trans-1,2-Dichloroethene	A	100.0	106.7	0.2561505	0.273286		6.7	20
1,2-Dichloropropane	A	100.0	105.8	0.2147841	0.2272202		5.8	20
1,3-Dichloropropane	A	100.0	97.22	0.8727974	0.8485668		-2.8	20
2,2-Dichloropropane	A	100.0	97.09	0.313679	0.3045407		-2.9	20
1,1-Dichloropropene	A	100.0	104.4	0.2975675	0.3107613		4.4	20
cis-1,3-Dichloropropene	A	100.0	104.6	0.3476874	0.3636567		4.6	20
trans-1,3-Dichloropropene	A	100.0	112.9	0.8140528	0.9193387		12.9	20
Ethylbenzene	A	100.0	98.72	2.362031	2.33182		-1.3	20
Hexachlorobutadiene	A	100.0	100.7	0.2884888	0.2904635		0.7	20
Isopropylbenzene	A	100.0	100.9	1.87632	1.892421		0.9	20
p-Isopropyltoluene	A	100.0	100.8	1.319723	1.3304		0.8	20
Methylene chloride	L	100.0	106.9	0.3495467	0.2870065		6.9	20
Naphthalene	A	100.0	102.2	1.354318	1.383704		2.2	20
Methyl t-Butyl Ether	A	200.0	203.1	0.5847072	0.5937574		1.5	20
n-Propylbenzene	A	100.0	102.9	2.077827	2.138863		2.9	20
Styrene	A	100.0	97.73	1.58216	1.546204		-2.3	20
1,1,2,2-Tetrachloroethane	A	100.0	100.2	0.5617003	0.5630699	0.3	0.2	20
1,1,1,2-Tetrachloroethane	A	100.0	101.8	0.6203306	0.6312648		1.8	20
Tetrachloroethene	A	100.0	101.2	0.7377491	0.7469719		1.3	20
Toluene	A	100.0	97.48	1.341681	1.30786		-2.5	20
1,2,3-Trichlorobenzene	A	100.0	100.8	0.5885341	0.593447		0.8	20
1,2,4-Trichlorobenzene	A	100.0	98.62	0.6548499	0.6458299		-1.4	20
1,1,2-Trichloroethane	A	100.0	96.16	0.4819472	0.4634186		-3.8	20
1,1,1-Trichloroethane	A	100.0	103.0	0.3182995	0.3278918		3.0	20
Trichloroethene	A	100.0	105.1	0.2365637	0.2487209		5.1	20
Trichlorofluoromethane	A	100.0	101.9	0.3726959	0.3798505		1.9	20
1,2,3-Trichloropropane	A	100.0	97.95	0.1879384	0.1840816		-2.1	20
1,3,5-Trimethylbenzene	A	100.0	104.9	1.460301	1.532568		4.9	20
1,2,4-Trimethylbenzene	A	100.0	104.0	1.5051	1.565866		4.0	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0207ICV1.D	Calibration Date:	02/07/11 07:30
Sequence:	1B03901	Injection Date:	02/07/11
Lab Sample ID:	1B03901-ICV1	Injection Time:	11:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Vinyl chloride	A	100.0	101.8	0.1667217	0.1696555		1.8	20
m,p-Xylene	A	200.0	184.2	1.800979	1.65836		-7.9	20
o-Xylene	A	100.0	94.06	1.868187	1.757169		-5.9	20
Bromofluorobenzene	A	30.00	29.15	0.957387	0.9303721		-2.8	20
Dibromofluoromethane	A	30.00	29.73	0.3249097	0.3219898		-0.9	20
1,2-Dichloroethane-d4	A	30.00	31.33	6.571543E-02	6.863695E-02		4.4	20
Toluene-d8	A	30.00	28.56	2.437291	2.320547		-4.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0207ICV4.D	Calibration Date:	02/07/11 07:30
Sequence:	1B03901	Injection Date:	02/07/11
Lab Sample ID:	1B03901-ICV4	Injection Time:	17:53

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	100.0	107.3	6.348042E-02	6.809928E-02		7.3	20
2-Butanone	L	100.0	103.0	0.0859897	0.102141		3.0	20
2-Hexanone	A	100.0	119.4	0.3128498	0.3736664		19.4	20
4-Methyl-2-pentanone	A	100.0	116.0	0.1734344	0.2012692		16.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0208CC1.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04021	Injection Date:	02/08/11
Lab Sample ID:	1B04021-CCV1	Injection Time:	08:15

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	219.2	6.348042E-02	6.957751E-02		9.6	20
Benzene	A	100.0	107.9	0.8183504	0.8827233		7.9	20
Bromobenzene	A	100.0	104.7	0.7130765	0.7463645		4.7	20
Bromochloromethane	A	100.0	109.9	0.1506323	0.1656114		9.9	20
Bromodichloromethane	A	100.0	109.5	0.3027916	0.3316459		9.5	20
Bromoform	A	100.0	111.8	0.5699803	0.637218	0.1	11.8	20
Bromomethane	L	100.0	113.3	0.1299074	0.176967		13.3	20
n-Butylbenzene	A	100.0	101.5	1.217717	1.235825		1.5	20
2-Butanone	L	200.0	229.5	0.0859897	0.1155474		14.8	20
sec-Butylbenzene	A	100.0	93.31	1.6733	1.561431		-6.7	20
tert-Butylbenzene	A	100.0	100.5	1.187017	1.193456		0.5	20
Carbon disulfide	A	100.0	107.4	0.7469286	0.8024038		7.4	20
Carbon tetrachloride	A	100.0	115.6	0.2803579	0.3240422		15.6	20
Chlorobenzene	A	100.0	98.28	1.569517	1.542523	0.3	-1.7	20
Chloroethane	A	100.0	109.4	0.1568842	0.1716742		9.4	20
Chloroform	A	100.0	106.2	0.4305875	0.4570894		6.2	20
Chloromethane	A	100.0	101.4	0.1946412	0.197338	0.1	1.4	20
2-Chlorotoluene	A	100.0	98.89	1.424715	1.408879		-1.1	20
4-Chlorotoluene	A	100.0	100.1	1.457508	1.459352		0.1	20
Dibromochloromethane	A	100.0	100.7	0.7402924	0.7453603		0.7	20
1,2-Dibromo-3-chloropropane	L	100.0	97.36	0.1405829	0.1592016		-2.6	20
1,2-Dibromoethane (EDB)	A	100.0	99.47	0.6476013	0.644184		-0.5	20
Dibromomethane	A	100.0	106.5	0.1687338	0.1797853		6.5	20
1,2-Dichlorobenzene	A	100.0	99.46	1.071477	1.065729		-0.5	20
1,3-Dichlorobenzene	A	100.0	91.91	1.109664	1.019943		-8.1	20
1,4-Dichlorobenzene	A	100.0	104.7	1.185544	1.241185		4.7	20
Dichlorodifluoromethane	L	100.0	106.4	0.222674	0.245371		6.4	20
1,1-Dichloroethane	A	100.0	110.7	0.4081297	0.4517387	0.1	10.7	20
1,2-Dichloroethane	A	100.0	115.8	0.2844065	0.3295115		15.9	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0208CC1.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04021	Injection Date:	02/08/11
Lab Sample ID:	1B04021-CCV1	Injection Time:	08:15

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	107.3	0.2163828	0.2322268		7.3	20
cis-1,2-Dichloroethene	A	100.0	105.6	0.2711242	0.2863253		5.6	20
trans-1,2-Dichloroethene	A	100.0	101.5	0.2561505	0.259962		1.5	20
1,2-Dichloropropane	A	100.0	104.9	0.2147841	0.2253021		4.9	20
1,3-Dichloropropane	A	100.0	99.62	0.8727974	0.8694493		-0.4	20
2,2-Dichloropropane	A	100.0	111.6	0.313679	0.3501038		11.6	20
1,1-Dichloropropene	A	100.0	103.0	0.2975675	0.3064615		3.0	20
cis-1,3-Dichloropropene	A	100.0	111.7	0.3476874	0.3882512		11.7	20
trans-1,3-Dichloropropene	A	100.0	103.2	0.8140528	0.8401807		3.2	20
Ethylbenzene	A	100.0	99.76	2.362031	2.356382		-0.2	20
Hexachlorobutadiene	A	100.0	98.18	0.2884888	0.2832461		-1.8	20
2-Hexanone	A	200.0	221.1	0.3128498	0.3458876		10.6	20
Isopropylbenzene	A	100.0	102.8	1.87632	1.928524		2.8	20
p-Isopropyltoluene	A	100.0	96.63	1.319723	1.275238		-3.4	20
Methylene chloride	L	100.0	104.0	0.3495467	0.2793725		4.0	20
Naphthalene	A	100.0	107.0	1.354318	1.4485		7.0	20
4-Methyl-2-pentanone	A	200.0	219.8	0.1734344	0.1906252		9.9	20
Methyl t-Butyl Ether	A	100.0	104.8	0.5847072	0.6125417		4.8	20
n-Propylbenzene	A	100.0	102.5	2.077827	2.129759		2.5	20
Styrene	A	100.0	97.74	1.58216	1.546489		-2.3	20
1,1,2,2-Tetrachloroethane	A	100.0	100.3	0.5617003	0.5633817	0.3	0.3	20
1,1,1,2-Tetrachloroethane	A	100.0	100.7	0.6203306	0.6247324		0.7	20
Tetrachloroethene	A	100.0	100.2	0.7377491	0.7391514		0.2	20
Toluene	A	100.0	96.77	1.341681	1.298373		-3.2	20
1,2,3-Trichlorobenzene	A	100.0	110.6	0.5885341	0.6506623		10.6	20
1,2,4-Trichlorobenzene	A	100.0	105.7	0.6548499	0.6924355		5.7	20
1,1,2-Trichloroethane	A	100.0	95.32	0.4819472	0.4593689		-4.7	20
1,1,1-Trichloroethane	A	100.0	111.9	0.3182995	0.3562323		11.9	20
Trichloroethene	A	100.0	107.1	0.2365637	0.2534083		7.1	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0208CC1.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04021	Injection Date:	02/08/11
Lab Sample ID:	1B04021-CCV1	Injection Time:	08:15

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	109.4	0.3726959	0.4079461		9.5	20
1,2,3-Trichloropropane	A	100.0	100.8	0.1879384	0.1894532		0.8	20
1,3,5-Trimethylbenzene	A	100.0	101.5	1.460301	1.482676		1.5	20
1,2,4-Trimethylbenzene	A	100.0	98.30	1.5051	1.479457		-1.7	20
Vinyl chloride	A	100.0	88.68	0.1667217	0.1478431		-11.3	20
m,p-Xylene	A	200.0	190.9	1.800979	1.718852		-4.6	20
o-Xylene	A	100.0	99.37	1.868187	1.856451		-0.6	20
Bromofluorobenzene	A	30.00	30.99	0.957387	0.9890775		3.3	20
Dibromofluoromethane	A	30.00	31.04	0.3249097	0.3361707		3.5	20
1,2-Dichloroethane-d4	A	30.00	33.10	6.571543E-02	7.249827E-02		10.3	20
Toluene-d8	A	30.00	28.70	2.437291	2.33149		-4.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0208CC1E.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04022	Injection Date:	02/08/11
Lab Sample ID:	1B04022-CCV1	Injection Time:	20:05

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	232.2	6.348042E-02	7.370754E-02		16.1	20
Benzene	A	100.0	111.0	0.8183504	0.9081846		11.0	20
Bromobenzene	A	100.0	106.1	0.7130765	0.7568717		6.1	20
Bromochloromethane	A	100.0	115.1	0.1506323	0.173451		15.1	20
Bromodichloromethane	A	100.0	117.4	0.3027916	0.3555419		17.4	20
Bromoform	A	100.0	115.2	0.5699803	0.656342	0.1	15.2	20
Bromomethane	L	100.0	103.3	0.1299074	0.161023		3.3	20
n-Butylbenzene	A	100.0	103.6	1.217717	1.262179		3.7	20
2-Butanone	L	200.0	221.1	0.0859897	0.1112307		10.6	20
sec-Butylbenzene	A	100.0	107.4	1.6733	1.79713		7.4	20
tert-Butylbenzene	A	100.0	101.1	1.187017	1.199714		1.1	20
Carbon disulfide	A	100.0	113.7	0.7469286	0.849255		13.7	20
Carbon tetrachloride	A	100.0	114.8	0.2803579	0.3218969		14.8	20
Chlorobenzene	A	100.0	101.8	1.569517	1.598349	0.3	1.8	20
Chloroethane	A	100.0	119.4	0.1568842	0.1873745		19.4	20
Chloroform	A	100.0	109.4	0.4305875	0.4712117		9.4	20
Chloromethane	A	100.0	103.6	0.1946412	0.201652	0.1	3.6	20
2-Chlorotoluene	A	100.0	102.1	1.424715	1.455293		2.1	20
4-Chlorotoluene	A	100.0	108.6	1.457508	1.582686		8.6	20
Dibromochloromethane	A	100.0	106.6	0.7402924	0.7893062		6.6	20
1,2-Dibromo-3-chloropropane	L	100.0	104.4	0.1405829	0.1709105		4.4	20
1,2-Dibromoethane (EDB)	A	100.0	103.9	0.6476013	0.6731195		3.9	20
Dibromomethane	A	100.0	114.4	0.1687338	0.193113		14.4	20
1,2-Dichlorobenzene	A	100.0	104.6	1.071477	1.121141		4.6	20
1,3-Dichlorobenzene	A	100.0	117.3	1.109664	1.301233		17.3	20
1,4-Dichlorobenzene	A	100.0	89.77	1.185544	1.064259		-10.2	20
Dichlorodifluoromethane	L	100.0	110.2	0.222674	0.2541045		10.2	20
1,1-Dichloroethane	A	100.0	113.5	0.4081297	0.4632939	0.1	13.5	20
1,2-Dichloroethane	A	100.0	117.0	0.2844065	0.3329167		17.1	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0208CC1E.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04022	Injection Date:	02/08/11
Lab Sample ID:	1B04022-CCV1	Injection Time:	20:05

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	112.5	0.2163828	0.2434424		12.5	20
cis-1,2-Dichloroethene	A	100.0	109.6	0.2711242	0.2971648		9.6	20
trans-1,2-Dichloroethene	A	100.0	112.8	0.2561505	0.2890189		12.8	20
1,2-Dichloropropane	A	100.0	111.2	0.2147841	0.2389077		11.2	20
1,3-Dichloropropane	A	100.0	103.6	0.8727974	0.9043633		3.6	20
2,2-Dichloropropane	A	100.0	93.33	0.313679	0.2927457		-6.7	20
1,1-Dichloropropene	A	100.0	109.5	0.2975675	0.325817		9.5	20
cis-1,3-Dichloropropene	A	100.0	106.3	0.3476874	0.3694806		6.3	20
trans-1,3-Dichloropropene	A	100.0	103.1	0.8140528	0.8392681		3.1	20
Ethylbenzene	A	100.0	102.8	2.362031	2.427684		2.8	20
Hexachlorobutadiene	A	100.0	88.40	0.2884888	0.2550368		-11.6	20
2-Hexanone	A	200.0	235.9	0.3128498	0.36902		18.0	20
Isopropylbenzene	A	100.0	101.9	1.87632	1.912685		1.9	20
p-Isopropyltoluene	A	100.0	100.2	1.319723	1.322207		0.2	20
Methylene chloride	L	100.0	110.6	0.3495467	0.2966103		10.6	20
Naphthalene	A	100.0	103.9	1.354318	1.406775		3.9	20
4-Methyl-2-pentanone	A	200.0	239.4	0.1734344	0.207566		19.7	20
Methyl t-Butyl Ether	A	100.0	112.4	0.5847072	0.6571666		12.4	20
n-Propylbenzene	A	100.0	103.0	2.077827	2.140164		3.0	20
Styrene	A	100.0	106.8	1.58216	1.689645		6.8	20
1,1,2,2-Tetrachloroethane	A	100.0	108.0	0.5617003	0.6066253	0.3	8.0	20
1,1,1,2-Tetrachloroethane	A	100.0	105.1	0.6203306	0.6520115		5.1	20
Tetrachloroethene	A	100.0	100.9	0.7377491	0.7445853		0.9	20
Toluene	A	100.0	103.0	1.341681	1.38256		3.0	20
1,2,3-Trichlorobenzene	A	100.0	99.85	0.5885341	0.5876616		-0.1	20
1,2,4-Trichlorobenzene	A	100.0	105.1	0.6548499	0.6883274		5.1	20
1,1,2-Trichloroethane	A	100.0	105.9	0.4819472	0.5104627		5.9	20
1,1,1-Trichloroethane	A	100.0	116.8	0.3182995	0.371668		16.8	20
Trichloroethene	A	100.0	113.3	0.2365637	0.2680206		13.3	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0208CC1E.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04022	Injection Date:	02/08/11
Lab Sample ID:	1B04022-CCV1	Injection Time:	20:05

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	114.1	0.3726959	0.4251863		14.1	20
1,2,3-Trichloropropane	A	100.0	100.3	0.1879384	0.1884394		0.3	20
1,3,5-Trimethylbenzene	A	100.0	104.2	1.460301	1.521486		4.2	20
1,2,4-Trimethylbenzene	A	100.0	103.8	1.5051	1.563023		3.8	20
Vinyl chloride	A	100.0	96.05	0.1667217	0.1601426		-3.9	20
m,p-Xylene	A	200.0	193.7	1.800979	1.743916		-3.2	20
o-Xylene	A	100.0	102.4	1.868187	1.912222		2.4	20
Bromofluorobenzene	A	30.00	29.78	0.957387	0.9503723		-0.7	20
Dibromofluoromethane	A	30.00	31.96	0.3249097	0.346165		6.5	20
1,2-Dichloroethane-d4	A	30.00	31.49	6.571543E-02	6.897941E-02		5.0	20
Toluene-d8	A	30.00	30.19	2.437291	2.45248		0.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0209CC1.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04102	Injection Date:	02/09/11
Lab Sample ID:	1B04102-CCV1	Injection Time:	08:11

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	229.7	6.348042E-02	7.291315E-02		14.9	20
Benzene	A	100.0	112.0	0.8183504	0.9168728		12.0	20
Bromobenzene	A	100.0	112.9	0.7130765	0.8052208		12.9	20
Bromochloromethane	A	100.0	120.3	0.1506323	0.1812858		20.3	20 *
Bromodichloromethane	A	100.0	122.3	0.3027916	0.3702319		22.3	20 *
Bromoform	A	100.0	112.1	0.5699803	0.6388016	0.1	12.1	20
Bromomethane	L	100.0	108.0	0.1299074	0.1685791		8.0	20
n-Butylbenzene	A	100.0	115.6	1.217717	1.40711		15.6	20
2-Butanone	L	200.0	215.6	0.0859897	0.1084753		7.8	20
sec-Butylbenzene	A	100.0	112.4	1.6733	1.880548		12.4	20
tert-Butylbenzene	A	100.0	113.8	1.187017	1.351516		13.9	20
Carbon disulfide	A	100.0	117.0	0.7469286	0.8742841		17.1	20
Carbon tetrachloride	A	100.0	124.2	0.2803579	0.3481937		24.2	20 *
Chlorobenzene	A	100.0	106.2	1.569517	1.666489	0.3	6.2	20
Chloroethane	A	100.0	85.31	0.1568842	0.1338439		-14.7	20
Chloroform	A	100.0	115.7	0.4305875	0.4980864		15.7	20
Chloromethane	A	100.0	115.2	0.1946412	0.2241867	0.1	15.2	20
2-Chlorotoluene	A	100.0	105.2	1.424715	1.498255		5.2	20
4-Chlorotoluene	A	100.0	116.5	1.457508	1.698503		16.5	20
Dibromochloromethane	A	100.0	106.6	0.7402924	0.7889195		6.6	20
1,2-Dibromo-3-chloropropane	L	100.0	104.3	0.1405829	0.1707431		4.3	20
1,2-Dibromoethane (EDB)	A	100.0	105.3	0.6476013	0.6822347		5.3	20
Dibromomethane	A	100.0	116.6	0.1687338	0.1967277		16.6	20
1,2-Dichlorobenzene	A	100.0	110.7	1.071477	1.18615		10.7	20
1,3-Dichlorobenzene	A	100.0	125.8	1.109664	1.396454		25.8	20 *
1,4-Dichlorobenzene	A	100.0	92.86	1.185544	1.100917		-7.1	20
Dichlorodifluoromethane	L	100.0	123.2	0.222674	0.284039		23.2	20 *
1,1-Dichloroethane	A	100.0	116.9	0.4081297	0.4770931	0.1	16.9	20
1,2-Dichloroethane	A	100.0	121.2	0.2844065	0.3446004		21.2	20 *

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0209CC1.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04102	Injection Date:	02/09/11
Lab Sample ID:	1B04102-CCV1	Injection Time:	08:11

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	100.0	115.6	0.2163828	0.2501651		15.6	20	
cis-1,2-Dichloroethene	A	100.0	110.4	0.2711242	0.2994412		10.4	20	
trans-1,2-Dichloroethene	A	100.0	113.6	0.2561505	0.2911166		13.7	20	
1,2-Dichloropropane	A	100.0	112.4	0.2147841	0.2414894		12.4	20	
1,3-Dichloropropane	A	100.0	101.7	0.8727974	0.887658		1.7	20	
2,2-Dichloropropane	A	100.0	119.4	0.313679	0.374479		19.4	20	
1,1-Dichloropropene	A	100.0	116.2	0.2975675	0.3458769		16.2	20	
cis-1,3-Dichloropropene	A	100.0	120.0	0.3476874	0.4171914		20.0	20	
trans-1,3-Dichloropropene	A	100.0	105.1	0.8140528	0.8556888		5.1	20	
Ethylbenzene	A	100.0	103.4	2.362031	2.443336		3.4	20	
Hexachlorobutadiene	A	100.0	115.7	0.2884888	0.3336993		15.7	20	
2-Hexanone	A	200.0	219.5	0.3128498	0.3433998		9.8	20	
Isopropylbenzene	A	100.0	105.2	1.87632	1.973504		5.2	20	
p-Isopropyltoluene	A	100.0	107.2	1.319723	1.41496		7.2	20	
Methylene chloride	L	100.0	113.6	0.3495467	0.3046232		13.6	20	
Naphthalene	A	100.0	124.3	1.354318	1.683648		24.3	20	*
4-Methyl-2-pentanone	A	200.0	225.5	0.1734344	0.1955361		12.7	20	
Methyl t-Butyl Ether	A	100.0	114.2	0.5847072	0.6674501		14.2	20	
n-Propylbenzene	A	100.0	110.8	2.077827	2.302525		10.8	20	
Styrene	A	100.0	108.6	1.58216	1.718734		8.6	20	
1,1,2,2-Tetrachloroethane	A	100.0	109.9	0.5617003	0.6171558	0.3	9.9	20	
1,1,1,2-Tetrachloroethane	A	100.0	104.8	0.6203306	0.6503001		4.8	20	
Tetrachloroethene	A	100.0	99.38	0.7377491	0.733166		-0.6	20	
Toluene	A	100.0	98.63	1.341681	1.323303		-1.4	20	
1,2,3-Trichlorobenzene	A	100.0	128.9	0.5885341	0.758709		28.9	20	*
1,2,4-Trichlorobenzene	A	100.0	118.2	0.6548499	0.773834		18.2	20	
1,1,2-Trichloroethane	A	100.0	102.2	0.4819472	0.4927103		2.2	20	
1,1,1-Trichloroethane	A	100.0	121.6	0.3182995	0.3869772		21.6	20	*
Trichloroethene	A	100.0	116.3	0.2365637	0.2751014		16.3	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0209CC1.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04102	Injection Date:	02/09/11
Lab Sample ID:	1B04102-CCV1	Injection Time:	08:11

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	121.0	0.3726959	0.4508034		21.0	20 *
1,2,3-Trichloropropane	A	100.0	107.2	0.1879384	0.2015369		7.2	20
1,3,5-Trimethylbenzene	A	100.0	115.7	1.460301	1.690122		15.7	20
1,2,4-Trimethylbenzene	A	100.0	110.7	1.5051	1.665673		10.7	20
Vinyl chloride	A	100.0	107.7	0.1667217	0.1796052		7.7	20
m,p-Xylene	A	200.0	194.2	1.800979	1.74926		-2.9	20
o-Xylene	A	100.0	102.3	1.868187	1.91077		2.3	20
Bromofluorobenzene	A	30.00	29.63	0.957387	0.9454983		-1.2	20
Dibromofluoromethane	A	30.00	31.94	0.3249097	0.3459241		6.5	20
1,2-Dichloroethane-d4	A	30.00	32.94	6.571543E-02	7.214493E-02		9.8	20
Toluene-d8	A	30.00	28.25	2.437291	2.295399		-5.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B08003-BLK1 File ID: 0208BL1.D

Sampled: Prepared: Analyzed: 02/08/11 10:12

Solids: Preparation: 5030B Dilution:

Batch: 1B08003 Sequence: 1B04021 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.407	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B08003-BLK1 File ID: 0208BL1.D

Sampled: Prepared: Analyzed: 02/08/11 10:12

Solids: Preparation: 5030B Dilution:

Batch: 1B08003 Sequence: 1B04021 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.20	104	75 - 120	
Dibromofluoromethane	30.00	30.79	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.25	101	70 - 120	
Toluene-d8	30.00	29.49	98.3	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B08003-BS1 File ID: 0208LS1.D

Sampled: Prepared: Analyzed: 02/08/11 08:44

Solids: Preparation: 5030B Dilution:

Batch: 1B08003 Sequence: 1B04021 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	105	2.50	5.00	10.0	
71-43-2	Benzene	50.7	0.250	0.500	1.00	
108-86-1	Bromobenzene	53.6	0.250	0.500	1.00	
74-97-5	Bromochloromethane	53.1	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	55.5	0.250	0.500	1.00	
75-25-2	Bromoform	54.1	0.250	0.500	1.00	
74-83-9	Bromomethane	48.0	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	52.7	0.250	0.500	1.00	
78-93-3	2-Butanone	105	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	52.1	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	52.2	0.250	0.500	1.00	
75-15-0	Carbon disulfide	53.5	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	52.3	0.250	0.500	1.00	
108-90-7	Chlorobenzene	52.2	0.250	0.500	1.00	
75-00-3	Chloroethane	54.1	0.500	1.00	2.00	
67-66-3	Chloroform	49.3	0.250	0.500	1.00	
74-87-3	Chloromethane	54.1	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	52.2	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	51.1	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	52.0	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	46.4	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	50.7	0.250	0.500	1.00	
74-95-3	Dibromomethane	52.6	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	50.9	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	49.5	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	49.6	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	62.5	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	52.2	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	50.5	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	55.8	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	50.2	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	50.6	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.0	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	49.4	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	50.3	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	50.8	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	49.9	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	57.2	0.250	0.500	1.00	
100-41-4	Ethylbenzene	59.3	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	49.0	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B08003-BS1 File ID: 0208LS1.D

Sampled: Prepared: Analyzed: 02/08/11 08:44

Solids: Preparation: 5030B Dilution:

Batch: 1B08003 Sequence: 1B04021 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	119	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	54.7	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.7	0.250	0.500	1.00	
75-09-2	Methylene chloride	49.0	0.500	1.00	2.00	
91-20-3	Naphthalene	50.4	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	112	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	99.5	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	53.6	0.250	0.500	1.00	
100-42-5	Styrene	53.6	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	51.6	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	53.2	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	50.9	0.250	0.500	1.00	
108-88-3	Toluene	52.0	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	49.3	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	49.0	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.3	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	49.9	0.250	0.500	1.00	
79-01-6	Trichloroethene	52.7	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	50.9	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	51.2	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	50.7	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	52.7	0.250	0.500	1.00	
75-01-4	Vinyl chloride	47.6	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	105	0.500	1.00	2.00	
95-47-6	o-Xylene	52.9	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.91	99.7	75 - 120	
Dibromofluoromethane	30.00	29.45	98.2	85 - 115	
1,2-Dichloroethane-d4	30.00	28.15	93.8	70 - 120	
Toluene-d8	30.00	30.73	102	85 - 120	

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B08006-BLK1 File ID: 0208BL1E.D

Sampled: Prepared: Analyzed: 02/08/11 22:02

Solids: Preparation: 5030B Dilution:

Batch: 1B08006 Sequence: 1B04022 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.477	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B08006-BLK1 File ID: 0208BL1E.D

Sampled: Prepared: Analyzed: 02/08/11 22:02

Solids: Preparation: 5030B Dilution:

Batch: 1B08006 Sequence: 1B04022 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.97	110	75 - 120	
Dibromofluoromethane	30.00	30.77	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.68	102	70 - 120	
Toluene-d8	30.00	30.04	100	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B08006-BS1 File ID: 0208LS1E.D

Sampled: Prepared: Analyzed: 02/08/11 20:34

Solids: Preparation: 5030B Dilution:

Batch: 1B08006 Sequence: 1B04022 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	104	2.50	5.00	10.0	
71-43-2	Benzene	54.4	0.250	0.500	1.00	
108-86-1	Bromobenzene	53.7	0.250	0.500	1.00	
74-97-5	Bromochloromethane	56.2	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	58.1	0.250	0.500	1.00	
75-25-2	Bromoform	58.7	0.250	0.500	1.00	
74-83-9	Bromomethane	47.1	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	51.7	0.250	0.500	1.00	
78-93-3	2-Butanone	119	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	50.6	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	51.6	0.250	0.500	1.00	
75-15-0	Carbon disulfide	57.8	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	54.7	0.250	0.500	1.00	
108-90-7	Chlorobenzene	56.1	0.250	0.500	1.00	
75-00-3	Chloroethane	44.7	0.500	1.00	2.00	
67-66-3	Chloroform	52.5	0.250	0.500	1.00	
74-87-3	Chloromethane	55.9	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	51.2	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	53.7	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	56.0	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	45.8	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	54.3	0.250	0.500	1.00	
74-95-3	Dibromomethane	56.4	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.1	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	51.4	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	52.3	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	67.7	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	53.0	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	55.1	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	57.8	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	50.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	52.3	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	55.2	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	54.0	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	43.2	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	52.3	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	51.5	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	59.0	0.250	0.500	1.00	
100-41-4	Ethylbenzene	54.6	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	52.1	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B08006-BS1 File ID: 0208LS1E.D

Sampled: Prepared: Analyzed: 02/08/11 20:34

Solids: Preparation: 5030B Dilution:

Batch: 1B08006 Sequence: 1B04022 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	120	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	58.4	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	56.9	0.250	0.500	1.00	
75-09-2	Methylene chloride	52.7	0.500	1.00	2.00	
91-20-3	Naphthalene	55.7	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	110	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	106	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	54.4	0.250	0.500	1.00	
100-42-5	Styrene	56.2	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	51.5	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	56.7	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	55.3	0.250	0.500	1.00	
108-88-3	Toluene	54.5	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	52.7	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	52.7	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	52.4	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	55.0	0.250	0.500	1.00	
79-01-6	Trichloroethene	56.7	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	55.4	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	54.1	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.3	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	51.7	0.250	0.500	1.00	
75-01-4	Vinyl chloride	52.6	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	110	0.500	1.00	2.00	
95-47-6	o-Xylene	54.1	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.82	99.4	75 - 120	
Dibromofluoromethane	30.00	29.24	97.5	85 - 115	
1,2-Dichloroethane-d4	30.00	29.57	98.6	70 - 120	
Toluene-d8	30.00	29.16	97.2	85 - 120	

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B09001-BLK1 File ID: 0209BL1.D

Sampled: Prepared: Analyzed: 02/09/11 10:08

Solids: Preparation: 5030B Dilution:

Batch: 1B09001 Sequence: 1B04102 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	X, U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	X, U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	Q, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.471	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B09001-BLK1 File ID: 0209BL1.D

Sampled: Prepared: Analyzed: 02/09/11 10:08

Solids: Preparation: 5030B Dilution:

Batch: 1B09001 Sequence: 1B04102 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	X, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.99	96.6	75 - 120	
Dibromofluoromethane	30.00	30.03	100	85 - 115	
1,2-Dichloroethane-d4	30.00	28.39	94.6	70 - 120	
Toluene-d8	30.00	29.58	98.6	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B09001-BS1 File ID: 0209LS1.D

Sampled: Prepared: Analyzed: 02/09/11 08:41

Solids: Preparation: 5030B Dilution:

Batch: 1B09001 Sequence: 1B04102 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	107	2.50	5.00	10.0	
71-43-2	Benzene	56.5	0.250	0.500	1.00	
108-86-1	Bromobenzene	57.1	0.250	0.500	1.00	
74-97-5	Bromochloromethane	59.7	0.250	0.500	1.00	X
75-27-4	Bromodichloromethane	59.7	0.250	0.500	1.00	X
75-25-2	Bromoform	59.9	0.250	0.500	1.00	
74-83-9	Bromomethane	49.4	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	50.8	0.250	0.500	1.00	
78-93-3	2-Butanone	111	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	53.2	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	53.3	0.250	0.500	1.00	
75-15-0	Carbon disulfide	57.8	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	55.7	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	56.1	0.250	0.500	1.00	
75-00-3	Chloroethane	41.3	0.500	1.00	2.00	
67-66-3	Chloroform	54.3	0.250	0.500	1.00	
74-87-3	Chloromethane	59.3	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	52.2	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	58.7	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	58.8	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	48.9	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	57.7	0.250	0.500	1.00	
74-95-3	Dibromomethane	57.5	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.8	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	61.8	0.250	0.500	1.00	X
106-46-7	1,4-Dichlorobenzene	49.7	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	68.4	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	55.3	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	59.4	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	60.3	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	55.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	54.8	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	54.6	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	54.5	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	34.3	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	54.9	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	52.0	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	59.0	0.250	0.500	1.00	
100-41-4	Ethylbenzene	57.5	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	56.1	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B09001-BS1 File ID: 0209LS1.D

Sampled: Prepared: Analyzed: 02/09/11 08:41

Solids: Preparation: 5030B Dilution:

Batch: 1B09001 Sequence: 1B04102 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	113	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	58.7	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	57.8	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.7	0.500	1.00	2.00	
91-20-3	Naphthalene	61.7	0.250	0.500	1.00	X
108-10-1	4-Methyl-2-pentanone	108	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	106	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	56.7	0.250	0.500	1.00	
100-42-5	Styrene	57.9	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	53.6	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	57.7	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	56.6	0.250	0.500	1.00	
108-88-3	Toluene	56.5	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	59.4	0.250	0.500	1.00	X
120-82-1	1,2,4-Trichlorobenzene	57.8	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	55.3	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	55.8	0.250	0.500	1.00	X
79-01-6	Trichloroethene	54.4	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	57.1	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	57.2	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	55.2	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	55.0	0.250	0.500	1.00	
75-01-4	Vinyl chloride	53.2	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	111	0.500	1.00	2.00	
95-47-6	o-Xylene	54.8	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.46	98.2	75 - 120	
Dibromofluoromethane	30.00	30.00	100	85 - 115	
1,2-Dichloroethane-d4	30.00	29.75	99.2	70 - 120	
Toluene-d8	30.00	30.89	103	85 - 120	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_002

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0034	01/28/11 14:25	01/29/11 09:30	02/09/11 00:00	N/A	14.00	02/09/11 12:36	11.92	14.00	
GW8004-TB	01/28/11 08:00	01/29/11 09:30	02/09/11 00:00	N/A	14.00	02/09/11 10:38	12.11	14.00	
GW0012	01/31/11 11:52	02/01/11 08:45	02/08/11 00:00	N/A	14.00	02/08/11 14:10	8.10	14.00	
GW0013	01/31/11 14:40	02/01/11 08:45	02/08/11 00:00	N/A	14.00	02/08/11 14:39	8.00	14.00	
GW8005-TB	01/31/11 08:00	02/01/11 08:45	02/08/11 00:00	N/A	14.00	02/08/11 22:32	8.61	14.00	
GW0035	02/02/11 09:55	02/03/11 08:45	02/08/11 00:00	N/A	14.00	02/09/11 02:58	6.71	14.00	
GW0039	02/02/11 12:05	02/03/11 08:45	02/08/11 00:00	N/A	14.00	02/09/11 03:28	6.64	14.00	
GW8006-TB	02/02/11 08:00	02/03/11 08:45	02/08/11 00:00	N/A	14.00	02/08/11 23:31	6.65	14.00	
GW0008	02/03/11 12:42	02/04/11 08:45	02/08/11 00:00	N/A	14.00	02/09/11 03:58	5.64	14.00	
GW8007-TB	02/03/11 08:00	02/04/11 08:45	02/08/11 00:00	N/A	14.00	02/09/11 00:01	5.67	14.00	

Data for SW8270C Forms

ANALYSIS DATA SHEET

GW0034

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1101211-01 File ID: 0121101.D

Sampled: 01/28/11 14:25 Prepared: 02/11/11 13:15 Analyzed: 02/15/11 20:03

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	H2, U
83-32-9	Acenaphthene		1.20	2.40	4.81	H2, U
208-96-8	Acenaphthylene		1.20	2.40	4.81	H2, U
98-86-2	Acetophenone		1.20	2.40	4.81	H2, U
120-12-7	Anthracene		1.20	2.40	4.81	H2, U
1912-24-9	Atrazine		1.20	2.40	4.81	H2, U
100-52-7	Benzaldehyde		1.20	2.40	4.81	H2, Y, U
92-87-5	Benzidine		12.0	24.0	48.1	H2, Y, U
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	H2, U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	H2, U
205-99-2	Benzo(b)fluoranthene		1.20	2.40	4.81	H2, U
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	H2, U
65-85-0	Benzoic acid		12.0	24.0	48.1	H2, U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	H2, U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	H2, U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	H2, U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	H2, Q, U
105-60-2	Caprolactam		1.20	2.40	4.81	H2, Q, U
86-74-8	Carbazole		1.20	2.40	4.81	H2, U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	H2, U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	H2, U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	H2, U
111-44-4	Bis(2-chloroethyl)ether		1.20	2.40	4.81	H2, U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	U, H2
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	H2, U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	H2, U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	H2, U
218-01-9	Chrysene		1.20	2.40	4.81	H2, U
53-70-3	Dibenz(a,h)anthracene		1.20	2.40	4.81	H2, U
132-64-9	Dibenzofuran		1.20	2.40	4.81	H2, U
84-74-2	Di-n-butylphthalate		1.20	2.40	4.81	H2, U
120-83-2	2,4-Dichlorophenol		1.20	2.40	4.81	U, H2
84-66-2	Diethylphthalate		1.20	2.40	4.81	H2, U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	U, H2
131-11-3	Dimethyl phthalate		1.20	2.40	4.81	H2, U
534-52-1	4,6-Dinitro-2-methylphenol		4.81	9.62	19.2	H2, X, U
51-28-5	2,4-Dinitrophenol		12.0	24.0	48.1	H2, X, U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	H2, U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	H2, U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	H2, U

ANALYSIS DATA SHEET

GW0034

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1101211-01 File ID: 0121101.D

Sampled: 01/28/11 14:25 Prepared: 02/11/11 13:15 Analyzed: 02/15/11 20:03

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.20	2.40	4.81	U, H2
117-81-7	Bis(2-ethylhexyl)phthalate		1.20	2.40	4.81	H2, U
206-44-0	Fluoranthene		1.20	2.40	4.81	H2, U
86-73-7	Fluorene		1.20	2.40	4.81	H2, U
118-74-1	Hexachlorobenzene		1.20	2.40	4.81	H2, U
87-68-3	Hexachlorobutadiene		1.20	2.40	4.81	H2, Q, U
77-47-4	Hexachlorocyclopentadiene		1.20	2.40	4.81	H2, Q, U
67-72-1	Hexachloroethane		1.20	2.40	4.81	H2, Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.20	2.40	4.81	H2, U
78-59-1	Isophorone		1.20	2.40	4.81	H2, U
90-12-0	1-Methylnaphthalene		1.20	2.40	4.81	U, H2
91-57-6	2-Methylnaphthalene		1.20	2.40	4.81	H2, U
95-48-7	2-Methylphenol		1.20	2.40	4.81	H2, U
65794-96-9	3+4-Methylphenol		1.20	2.40	4.81	H2, U
100-01-6	4-Nitroaniline		4.81	9.62	19.2	H2, Q, X, U
99-09-2	3-Nitroaniline		4.81	9.62	19.2	H2, U
88-74-4	2-Nitroaniline		4.81	9.62	19.2	H2, U
98-95-3	Nitrobenzene		1.20	2.40	4.81	H2, U
100-02-7	4-Nitrophenol		4.81	9.62	19.2	H2, U
88-75-5	2-Nitrophenol		1.20	2.40	4.81	H2, U
86-30-6	N-Nitrosodiphenylamine		1.20	2.40	4.81	H2, U
621-64-7	N-Nitroso-di-n-propylamine		1.20	2.40	4.81	H2, U
87-86-5	Pentachlorophenol		4.81	9.62	19.2	H2, U
85-01-8	Phenanthrene		1.20	2.40	4.81	H2, U
108-95-2	Phenol		1.20	2.40	4.81	H2, U
129-00-0	Pyrene		1.20	2.40	4.81	H2, X, U
88-06-2	2,4,6-Trichlorophenol		1.20	2.40	4.81	U, H2
95-95-4	2,4,5-Trichlorophenol		1.20	2.40	4.81	U, H2

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	32.76	68.1	50 - 110	H2
2-Fluorophenol	96.15	20.04	20.8	20 - 110	H2
Nitrobenzene-d5	48.08	31.73	66.0	40 - 110	H2
Phenol-d6	96.15	13.35	13.9	10 - 110	H2
Terphenyl-d14	48.08	35.43	73.7	50 - 135	H2
2,4,6-Tribromophenol	96.15	70.76	73.6	40 - 125	H2

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04714
Instrument: MS-BNA1
Calibration: 1032006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04714-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 02/15/11 11:00		
2-Fluorobiphenyl	50.00	102	80 - 120	8.955	8.955	0.0000	+/-0.500	
2-Fluorophenol	100.0	99.8	80 - 120	4.696	4.696	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	96.4	80 - 120	6.797	6.797	0.0000	+/-0.500	
Phenol-d6	100.0	98.2	80 - 120	5.75	5.75	0.0000	+/-0.500	
Terphenyl-d14	50.00	109	80 - 120	13.534	13.534	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	102	80 - 120	10.738	10.738	0.0000	+/-0.500	
Blank (1B11003-BLK1) ug/L				Lab File ID: B11003B1.D		Analyzed: 02/15/11 18:37		
2-Fluorobiphenyl	50.00	56.7	50 - 110	8.952	8.955	-0.0030	+/-0.500	
2-Fluorophenol	100.0	21.0	20 - 110	4.7	4.696	0.0040	+/-0.500	
Nitrobenzene-d5	50.00	57.5	40 - 110	6.791	6.797	-0.0060	+/-0.500	
Phenol-d6	100.0	13.0	10 - 110	5.738	5.75	-0.0120	+/-0.500	
Terphenyl-d14	50.00	109	50 - 135	13.539	13.534	0.0050	+/-0.500	
2,4,6-Tribromophenol	100.0	77.3	40 - 125	10.727	10.738	-0.0110	+/-0.500	
LCS (1B11003-BS1) ug/L				Lab File ID: B11003L1.D		Analyzed: 02/15/11 19:06		
2-Fluorobiphenyl	50.00	81.2	50 - 110	8.958	8.955	0.0030	+/-0.500	
2-Fluorophenol	100.0	37.7	20 - 110	4.705	4.696	0.0090	+/-0.500	
Nitrobenzene-d5	50.00	81.8	40 - 110	6.8	6.797	0.0030	+/-0.500	
Phenol-d6	100.0	23.0	10 - 110	5.75	5.75	0.0000	+/-0.500	
Terphenyl-d14	50.00	105	50 - 135	13.541	13.534	0.0070	+/-0.500	
2,4,6-Tribromophenol	100.0	98.0	40 - 125	10.737	10.738	-0.0010	+/-0.500	
LCS Dup (1B11003-BSD1) ug/L				Lab File ID: B11003L2.D		Analyzed: 02/15/11 19:34		
2-Fluorobiphenyl	50.00	76.8	50 - 110	8.96	8.955	0.0050	+/-0.500	
2-Fluorophenol	100.0	28.5	20 - 110	4.706	4.696	0.0100	+/-0.500	
Nitrobenzene-d5	50.00	80.4	40 - 110	6.801	6.797	0.0040	+/-0.500	
Phenol-d6	100.0	19.9	10 - 110	5.746	5.75	-0.0040	+/-0.500	
Terphenyl-d14	50.00	110	50 - 135	13.536	13.534	0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	90.5	40 - 125	10.739	10.738	0.0010	+/-0.500	
GW0034 (1101211-01) ug/L				Lab File ID: 0121101.D		Analyzed: 02/15/11 20:03		
2-Fluorobiphenyl	48.08	68.1	50 - 110	8.955	8.955	0.0000	+/-0.500	
2-Fluorophenol	96.15	20.8	20 - 110	4.704	4.696	0.0080	+/-0.500	
Nitrobenzene-d5	48.08	66.0	40 - 110	6.792	6.797	-0.0050	+/-0.500	
Phenol-d6	96.15	13.9	10 - 110	5.737	5.75	-0.0130	+/-0.500	
Terphenyl-d14	48.08	73.7	50 - 135	13.54	13.534	0.0060	+/-0.500	
2,4,6-Tribromophenol	96.15	73.6	40 - 125	10.73	10.738	-0.0080	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B11003	Laboratory ID:	1B11003-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	50.00	49.89	99.8	20 - 110
Acenaphthene	50.00	41.86	83.7	45 - 110
Acenaphthylene	50.00	39.65	79.3	50 - 105
Acetophenone	50.00	41.94	83.9	50 - 110
Anthracene	50.00	46.11	92.2	55 - 110
Atrazine	50.00	53.65	107	70 - 115
Benzaldehyde	50.00	41.41	82.8	10 - 180
Benzidine	50.00	50.0 U	0	0 - 200
Benzo(a)anthracene	50.00	50.29	101	55 - 110
Benzo(a)pyrene	50.00	47.31	94.6	55 - 110
Benzo(b)fluoranthene	50.00	51.28	103	45 - 120
Benzo(g,h,i)perylene	50.00	56.86	114	40 - 125
Benzoic acid	50.00	12.78	25.6	0 - 125
Benzo(k)fluoranthene	50.00	52.28	105	45 - 125
1,1-Biphenyl	50.00	42.77	85.5	50 - 110
4-Bromophenyl-phenylether	50.00	49.48	99.0	50 - 115
Butylbenzylphthalate	**50.00**	**65.03**	**130**	**45 - 115**
Caprolactam	**50.00**	**9.009**	**18.0**	**20 - 110**
Carbazole	50.00	53.00	106	50 - 115
4-Chloro-3-methylphenol	50.00	46.61	93.2	45 - 110
4-Chloroaniline	50.00	36.01	72.0	15 - 110
Bis(2-chloroethoxy)methane	50.00	47.41	94.8	45 - 105
Bis(2-chloroethyl)ether	50.00	41.57	83.1	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	37.33	74.7	25 - 130
2-Chloronaphthalene	50.00	32.91	65.8	50 - 105
2-Chlorophenol	50.00	34.33	68.7	35 - 105
4-Chlorophenyl phenyl ether	50.00	44.64	89.3	50 - 110
Chrysene	50.00	51.71	103	55 - 110
Dibenz(a,h)anthracene	50.00	52.01	104	40 - 125
Dibenzofuran	50.00	41.56	83.1	55 - 105

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B11003
Laboratory ID: 1B11003-BS1
Preparation: EXT_3510
Initial/Final: 1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Di-n-butylphthalate	50.00	49.46	98.9	55 - 115
2,4-Dichlorophenol	50.00	44.09	88.2	40 - 110
Diethylphthalate	50.00	56.75	114	40 - 120
2,4-Dimethylphenol	50.00	38.59	77.2	30 - 110
Dimethyl phthalate	50.00	45.56	91.1	25 - 125
4,6-Dinitro-2-methylphenol	50.00	60.11	120	40 - 130
2,4-Dinitrophenol	50.00	58.51	117	15 - 140
2,4-Dinitrotoluene	50.00	53.64	107	50 - 120
2,6-Dinitrotoluene	50.00	50.43	101	50 - 115
Di-n-octylphthalate	50.00	60.91	122	35 - 135
1,2-Diphenylhydrazine	50.00	40.54	81.1	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	55.73	111	40 - 125
Fluoranthene	50.00	41.49	83.0	55 - 115
Fluorene	50.00	42.20	84.4	50 - 110
Hexachlorobenzene	50.00	50.62	101	50 - 110
Hexachlorobutadiene	**50.00**	**9.705**	**19.4**	**25 - 105**
Hexachlorocyclopentadiene	50.00	8.290	16.6	10 - 110
Hexachloroethane	**50.00**	**8.705**	**17.4**	**30 - 95**
Indeno(1,2,3-cd)pyrene	50.00	52.08	104	45 - 125
Isophorone	50.00	39.09	78.2	50 - 110
1-Methylnaphthalene	50.00	35.55	71.1	30 - 115
2-Methylnaphthalene	50.00	32.59	65.2	45 - 105
2-Methylphenol	50.00	30.21	60.4	40 - 110
3+4-Methylphenol	50.00	25.97	51.9	30 - 110
4-Nitroaniline	**50.00**	**67.28**	**135**	**35 - 120**
3-Nitroaniline	50.00	46.20	92.4	20 - 125
2-Nitroaniline	50.00	47.85	95.7	50 - 115
Nitrobenzene	50.00	38.57	77.1	30 - 110
4-Nitrophenol	50.00	14.74	29.5	0 - 125
2-Nitrophenol	50.00	45.96	91.9	40 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B11003
Laboratory ID: 1B11003-BS1
Preparation: EXT_3510
Initial/Final: 1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
N-Nitrosodiphenylamine	50.00	36.70	73.4	50 - 110
N-Nitroso-di-n-propylamine	50.00	41.98	84.0	35 - 130
Pentachlorophenol	50.00	51.80	104	40 - 115
Phenanthrene	50.00	48.00	96.0	50 - 115
Phenol	50.00	14.13	28.3	0 - 115
Pyrene	50.00	61.96	124	50 - 130
2,4,6-Trichlorophenol	50.00	47.36	94.7	50 - 115
2,4,5-Trichlorophenol	50.00	48.18	96.4	50 - 110

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
3,3'-Dichlorobenzidine	50.00	46.37	92.7		7.32	30	20 - 110
Acenaphthene	50.00	38.67	77.3		7.91	30	45 - 110
Acenaphthylene	50.00	39.83	79.7		0.463	30	50 - 105
Acetophenone	50.00	37.69	75.4		10.7	30	50 - 110
Anthracene	50.00	46.27	92.5		0.350	30	55 - 110
Atrazine	50.00	54.38	109		1.35	30	70 - 115
Benzaldehyde	50.00	37.64	75.3		9.55	30	10 - 180
Benzidine	50.00	50.0 U	0			30	0 - 200
Benzo(a)anthracene	50.00	47.25	94.5		6.24	30	55 - 110
Benzo(a)pyrene	50.00	43.11	86.2		9.28	30	55 - 110
Benzo(b)fluoranthene	50.00	50.87	102		0.808	30	45 - 120
Benzo(g,h,i)perylene	50.00	45.08	90.2		23.1	30	40 - 125
Benzoic acid	50.00	50.0 U	0			30	0 - 125
Benzo(k)fluoranthene	50.00	48.11	96.2		8.31	30	45 - 125
1,1-Biphenyl	50.00	40.48	81.0		5.50	30	50 - 110
4-Bromophenyl-phenylether	50.00	49.93	99.9		0.904	30	50 - 115
Butylbenzylphthalate	**50.00**	**59.44**	**119**	*	**8.98**	**30**	**45 - 115**
Caprolactam	**50.00**	**8.537**	**17.1**	*	**5.38**	**30**	**20 - 110**
Carbazole	50.00	54.15	108		2.14	30	50 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B11003	Laboratory ID:	1B11003-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4-Chloro-3-methylphenol	50.00	37.80	75.6	20.9	30	45 - 110
4-Chloroaniline	50.00	34.64	69.3	3.89	30	15 - 110
Bis(2-chloroethoxy)methane	50.00	44.25	88.5	6.90	30	45 - 105
Bis(2-chloroethyl)ether	50.00	35.97	71.9	14.4	30	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	37.72	75.4	1.05	30	25 - 130
2-Chloronaphthalene	50.00	34.55	69.1	4.85	30	50 - 105
2-Chlorophenol	50.00	29.04	58.1	16.7	30	35 - 105
4-Chlorophenyl phenyl ether	50.00	46.51	93.0	4.11	30	50 - 110
Chrysene	50.00	49.14	98.3	5.09	30	55 - 110
Dibenz(a,h)anthracene	50.00	49.60	99.2	4.76	30	40 - 125
Dibenzofuran	50.00	41.59	83.2	0.0876	30	55 - 105
Di-n-butylphthalate	50.00	48.65	97.3	1.65	30	55 - 115
2,4-Dichlorophenol	50.00	39.04	78.1	12.2	30	40 - 110
Diethylphthalate	50.00	52.06	104	8.63	30	40 - 120
2,4-Dimethylphenol	50.00	34.24	68.5	11.9	30	30 - 110
Dimethyl phthalate	50.00	46.39	92.8	1.82	30	25 - 125
4,6-Dinitro-2-methylphenol	50.00	58.52	117	2.69	30	40 - 130
2,4-Dinitrophenol	50.00	52.03	104	11.7	30	15 - 140
2,4-Dinitrotoluene	50.00	51.51	103	4.05	30	50 - 120
2,6-Dinitrotoluene	50.00	46.86	93.7	7.35	30	50 - 115
Di-n-octylphthalate	50.00	55.85	112	8.67	30	35 - 135
1,2-Diphenylhydrazine	50.00	44.48	89.0	9.28	30	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	56.51	113	1.40	30	40 - 125
Fluoranthene	50.00	44.27	88.5	6.50	30	55 - 115
Fluorene	50.00	44.76	89.5	5.90	30	50 - 110
Hexachlorobenzene	50.00	50.56	101	0.116	30	50 - 110
Hexachlorobutadiene	50.00	14.03	28.1	36.4 *	30	25 - 105
Hexachlorocyclopentadiene	50.00	13.73	27.5	49.4 *	30	10 - 110
Hexachloroethane	**50.00**	**10.35**	**20.7 ***	**17.3**	**30**	**30 - 95**
Indeno(1,2,3-cd)pyrene	50.00	49.99	100	4.10	30	45 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B11003
Laboratory ID: 1B11003-BSD1
Preparation: EXT_3510
Initial/Final: 1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Isophorone	50.00	38.12	76.2		2.51	30	50 - 110
1-Methylnaphthalene	50.00	37.20	74.4		4.54	30	30 - 115
2-Methylnaphthalene	50.00	38.15	76.3		15.7	30	45 - 105
2-Methylphenol	50.00	25.61	51.2		16.5	30	40 - 110
3+4-Methylphenol	50.00	20.42	40.8		23.9	30	30 - 110
4-Nitroaniline	**50.00**	**64.27**	**129**	*	**4.58**	**30**	**35 - 120**
3-Nitroaniline	50.00	41.21	82.4		11.4	30	20 - 125
2-Nitroaniline	50.00	40.18	80.4		17.4	30	50 - 115
Nitrobenzene	50.00	38.91	77.8		0.891	30	30 - 110
4-Nitrophenol	50.00	13.69	27.4		7.37	30	0 - 125
2-Nitrophenol	50.00	41.25	82.5		10.8	30	40 - 115
N-Nitrosodiphenylamine	50.00	37.19	74.4		1.31	30	50 - 110
N-Nitroso-di-n-propylamine	50.00	37.13	74.3		12.3	30	35 - 130
Pentachlorophenol	50.00	52.02	104		0.426	30	40 - 115
Phenanthrene	50.00	46.04	92.1		4.17	30	50 - 115
Phenol	50.00	12.49	25.0		12.3	30	0 - 115
Pyrene	50.00	60.93	122		1.68	30	50 - 130
2,4,6-Trichlorophenol	50.00	40.90	81.8		14.6	30	50 - 115
2,4,5-Trichlorophenol	50.00	41.12	82.2		15.8	30	50 - 110

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B11003 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0034	1101211-01	02/11/11 13:15	1,040.00	1.00
Blank	1B11003-BLK1	02/11/11 13:15	1,000.00	1.00
LCS	1B11003-BS1	02/11/11 13:15	1,000.00	1.00
LCS Dup	1B11003-BSD1	02/11/11 13:15	1,000.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	01/26/11
Instrument ID:	MS-BNA1	Injection Time:	15:13
Sequence:	1B03208	Lab Sample ID:	1B03208-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	41.9	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	62.8	PASS
70	Less than 2% of 69	0.345	PASS
127	40 - 60% of 198	44.3	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.89	PASS
275	10 - 30% of 198	16.8	PASS
365	1 - 200% of 198	1.47	PASS
441	0.001 - 100% of 443	70.3	PASS
442	40 - 200% of 198	40.3	PASS
443	17 - 23% of 442	21.7	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	01/28/11
Instrument ID:	MS-BNA1	Injection Time:	09:18
Sequence:	1B03208	Lab Sample ID:	1B03208-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	31.1	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	48.5	PASS
70	Less than 2% of 69	0.314	PASS
127	40 - 60% of 198	40.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.62	PASS
275	10 - 30% of 198	20	PASS
365	1 - 200% of 198	2.17	PASS
441	0.001 - 100% of 443	75.3	PASS
442	40 - 200% of 198	77.2	PASS
443	17 - 23% of 442	19.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	02/15/11
Instrument ID:	MS-BNA1	Injection Time:	10:34
Sequence:	1B04714	Lab Sample ID:	1B04714-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	30.8	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	47.4	PASS
70	Less than 2% of 69	0.242	PASS
127	40 - 60% of 198	40.7	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.71	PASS
275	10 - 30% of 198	19.7	PASS
365	1 - 200% of 198	2.14	PASS
441	0.001 - 100% of 443	72.4	PASS
442	40 - 200% of 198	70.3	PASS
443	17 - 23% of 442	20	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B03208
Instrument: MS-BNA1
Calibration: 1032006

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B03208-TUN1	SEQ-TUN1.D	01/26/11 15:13
Cal Standard	1B03208-CAL1	SEQ-CAL1.D	01/26/11 15:40
Cal Standard	1B03208-CAL2	SEQ-CAL2.D	01/26/11 16:08
Cal Standard	1B03208-CAL3	SEQ-CAL3.D	01/26/11 16:37
Cal Standard	1B03208-CAL4	SEQ-CAL4.D	01/26/11 17:05
Cal Standard	1B03208-CAL5	SEQ-CAL5.D	01/26/11 17:34
Cal Standard	1B03208-CAL6	SEQ-CAL6.D	01/26/11 18:03
Cal Standard	1B03208-CAL7	SEQ-CAL7.D	01/26/11 18:31
Cal Standard	1B03208-CAL8	SEQ-CAL8.D	01/26/11 19:00
Cal Standard	1B03208-CAL9	SEQ-CAL9.D	01/26/11 19:29
Cal Standard	1B03208-CALA	SEQ-CALA.D	01/26/11 19:57
Cal Standard	1B03208-CALB	SEQ-CALB.D	01/26/11 20:26
Cal Standard	1B03208-CALC	SEQ-CALC.D	01/26/11 20:54
Cal Standard	1B03208-CALD	SEQ-CALD.D	01/26/11 21:23
Cal Standard	1B03208-CALE	SEQ-CALE.D	01/26/11 21:52
Cal Standard	1B03208-CALF	SEQ-CALF.D	01/26/11 22:20
Cal Standard	1B03208-CALG	SEQ-CALG.D	01/26/11 22:49
Initial Cal Check	1B03208-ICV1	SEQ-ICV1.D	01/26/11 23:17
Initial Cal Check	1B03208-ICV2	SEQ-ICV2.D	01/26/11 23:45
Initial Cal Check	1B03208-ICV3	SEQ-ICV3.D	01/27/11 00:13
MS Tune	1B03208-TUN2	SEQ-TUN1.D	01/28/11 09:18
Initial Cal Check	1B03208-ICV4	SEQ-ICV4.D	01/28/11 10:25

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04714	Instrument:	MS-BNA1
Calibration:	1032006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04714-TUN1	SEQ-TUN1.D	02/15/11 10:34
Calibration Check	1B04714-CCV1	SEQ-CCV1.D	02/15/11 11:00
Blank	1B11003-BLK1	B11003B1.D	02/15/11 18:37
LCS	1B11003-BS1	B11003L1.D	02/15/11 19:06
LCS Dup	1B11003-BSD1	B11003L2.D	02/15/11 19:34
GW0034	1101211-01	0121101.D	02/15/11 20:03

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B03208
Instrument: MS-BNA1
Calibration: 1032006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (1B03208-ICV1)			Lab File ID: SEQ-ICV1.D			Analyzed: 01/26/11 23:17			
1,4-Dichlorobenzene-d4	511700	6.172				50 - 200	6.1720	+/-0.50	*
Naphthalene-d8	1720446	7.658				50 - 200	7.6580	+/-0.50	*
Acenaphthene-d10	772767	9.78				50 - 200	9.7800	+/-0.50	*
Phenanthrene-d10	1115940	11.596				50 - 200	11.5960	+/-0.50	*
Chrysene-d12	1052908	14.85				50 - 200	14.8500	+/-0.50	*
Perylene-d12	949694	16.603				50 - 200	16.6030	+/-0.50	*
Initial Cal Check (1B03208-ICV2)			Lab File ID: SEQ-ICV2.D			Analyzed: 01/26/11 23:45			
1,4-Dichlorobenzene-d4	446206	6.173				50 - 200	6.1730	+/-0.50	*
Naphthalene-d8	1366970	7.652				50 - 200	7.6520	+/-0.50	*
Acenaphthene-d10	674313	9.776				50 - 200	9.7760	+/-0.50	*
Phenanthrene-d10	1044240	11.59				50 - 200	11.5900	+/-0.50	*
Chrysene-d12	885065	14.84				50 - 200	14.8400	+/-0.50	*
Perylene-d12	834806	16.593				50 - 200	16.5930	+/-0.50	*

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04714
Instrument: MS-BNA1
Calibration: 1032006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B04714-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 02/15/11 11:00			
1,4-Dichlorobenzene-d4	642207	6.149	488941	6.173	131	50 - 200	-0.0240	+/-0.50	
Naphthalene-d8	2001562	7.64	1584368	7.661	126	50 - 200	-0.0210	+/-0.50	
Acenaphthene-d10	1071764	9.771	740127	9.783	145	50 - 200	-0.0120	+/-0.50	
Phenanthrene-d10	1596702	11.58	1111588	11.597	144	50 - 200	-0.0170	+/-0.50	
Chrysene-d12	1043998	14.819	979203	14.854	107	50 - 200	-0.0350	+/-0.50	
Perylene-d12	771827	16.557	820355	16.6	94	50 - 200	-0.0430	+/-0.50	
Blank (1B11003-BLK1)			Lab File ID: B11003B1.D			Analyzed: 02/15/11 18:37			
1,4-Dichlorobenzene-d4	612716	6.153	642207	6.149	95	50 - 200	0.0040	+/-0.50	
Naphthalene-d8	2020511	7.64	2001562	7.64	101	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1042777	9.768	1071764	9.771	97	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	1572146	11.578	1596702	11.58	98	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	922261	14.818	1043998	14.819	88	50 - 200	-0.0010	+/-0.50	
Perylene-d12	672287	16.565	771827	16.557	87	50 - 200	0.0080	+/-0.50	
LCS (1B11003-BS1)			Lab File ID: B11003L1.D			Analyzed: 02/15/11 19:06			
1,4-Dichlorobenzene-d4	623148	6.152	642207	6.149	97	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	1961600	7.646	2001562	7.64	98	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10	1072449	9.767	1071764	9.771	100	50 - 200	-0.0040	+/-0.50	
Phenanthrene-d10	1644338	11.582	1596702	11.58	103	50 - 200	0.0020	+/-0.50	
Chrysene-d12	971225	14.823	1043998	14.819	93	50 - 200	0.0040	+/-0.50	
Perylene-d12	754666	16.567	771827	16.557	98	50 - 200	0.0100	+/-0.50	
LCS Dup (1B11003-BSD1)			Lab File ID: B11003L2.D			Analyzed: 02/15/11 19:34			
1,4-Dichlorobenzene-d4	618016	6.155	642207	6.149	96	50 - 200	0.0060	+/-0.50	
Naphthalene-d8	1898451	7.641	2001562	7.64	95	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	1067609	9.766	1071764	9.771	100	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	1542593	11.581	1596702	11.58	97	50 - 200	0.0010	+/-0.50	
Chrysene-d12	928874	14.822	1043998	14.819	89	50 - 200	0.0030	+/-0.50	
Perylene-d12	732966	16.562	771827	16.557	95	50 - 200	0.0050	+/-0.50	
GW0034 (1101211-01)			Lab File ID: 0121101.D			Analyzed: 02/15/11 20:03			
1,4-Dichlorobenzene-d4	624805	6.152	642207	6.149	97	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	1972723	7.642	2001562	7.64	99	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	1057120	9.766	1071764	9.771	99	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	1510317	11.574	1596702	11.58	95	50 - 200	-0.0060	+/-0.50	
Chrysene-d12	1114207	14.819	1043998	14.819	107	50 - 200	0.0000	+/-0.50	
Perylene-d12	797799	16.567	771827	16.557	103	50 - 200	0.0100	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3,3'-Dichlorobenzidine												
Acenaphthene	5	1.220878	10	1.118627	20	1.212567	40	1.085046	50	1.043914	60	1.052242
Acenaphthylene	5	1.94982	10	2.146404	20	1.823227	40	1.68579	50	1.661411	60	1.69419
Acetophenone												
Aniline	5	2.02499	10	2.162058	20	1.966631	40	2.001997	50	1.898633	60	1.897488
Anthracene	5	1.184955	10	1.081563	20	1.164455	40	1.091871	50	1.040675	60	0.9601388
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	5	1.162396	10	1.11186	20	1.213411	40	1.172758	50	1.123439	60	1.17446
Benzo(a)pyrene	5	1.028759	10	0.9828043	20	1.100819	40	1.122026	50	1.01213	60	1.049306
Benzo(b)fluoranthene	5	1.077629	10	1.039558	20	1.096949	40	1.152977	50	1.139324	60	1.106174
Benzo(g,h,i)perylene	5	0.8224602	10	0.7987842	20	0.8059861	40	0.7816645	50	0.7444304	60	0.6702291
Benzoic acid	5	0.1331081	10	0.1669506	20	0.2293678	40	0.2308795	50	0.2778284	60	0.2809271
Benzo(k)fluoranthene	5	1.29056	10	1.251448	20	1.316401	40	1.277549	50	1.091518	60	1.245353
Benzyl alcohol	5	0.8918595	10	0.9057471	20	0.8810121	40	0.8683949	50	0.8673854	60	0.8174535
1,1-Biphenyl												
4-Bromophenyl-phenylether	5	0.231972	10	0.2409782	20	0.260483	40	0.2108992	50	0.239031	60	0.2319426
Butylbenzylphthalate	5	0.7540163	10	0.7862457	20	0.8246928	40	0.8176434	50	0.7199546	60	0.8287041
Caprolactam												
Carbazole	5	1.128219	10	1.02969	20	1.000536	40	0.8835432	50	0.8901069	60	0.8548234
4-Chloro-3-methylphenol	5	0.310694	10	0.2887984	20	0.2948105	40	0.2876101	50	0.2892545	60	0.2792311
4-Chloroaniline	5	0.4857113	10	0.4592316	20	0.4857785	40	0.4309516	50	0.4412442	60	0.4082374
Bis(2-chloroethoxy)methane	5	0.5100818	10	0.4912081	20	0.5153237	40	0.445233	50	0.4453259	60	0.4436365
Bis(2-chloroethyl)ether	5	1.442472	10	1.590034	20	1.374359	40	1.269574	50	1.300273	60	1.297892
2,2'-Oxybis-1-chloropropane	5	2.184818	10	2.306427	20	2.189966	40	2.011674	50	1.717134	60	1.712654
2-Chloronaphthalene	5	1.247416	10	1.208501	20	1.26931	40	1.16149	50	1.088393	60	1.064578
2-Chlorophenol	5	1.438581	10	1.288788	20	1.365938	40	1.295661	50	1.283665	60	1.204709
4-Chlorophenyl phenyl ether	5	0.5713084	10	0.574376	20	0.5688825	40	0.5386735	50	0.5253523	60	0.5281174
Chrysene	5	1.181379	10	1.170608	20	1.189425	40	1.176048	50	1.091368	60	1.142452
Dibenz(a,h)anthracene	5	0.7898291	10	0.7836814	20	0.7617359	40	0.8067768	50	0.7553903	60	0.6819198

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Dibenzofuran	5	1.576125	10	1.695587	20	1.726036	40	1.527336	50	1.475582	60	1.426709
Di-n-butylphthalate	5	1.469552	10	1.493537	20	1.485016	40	1.459402	50	1.385354	60	1.243875
1,4-Dichlorobenzene	5	1.565822	10	1.580467	20	1.482342	40	1.374248	50	1.327094	60	1.312307
1,3-Dichlorobenzene	5	1.564366	10	1.550635	20	1.466796	40	1.395741	50	1.410471	60	1.324776
1,2-Dichlorobenzene	5	1.485698	10	1.514043	20	1.430022	40	1.33701	50	1.283084	60	1.19311
2,6-Dichlorophenol												
2,4-Dichlorophenol	5	0.318596	10	0.3480627	20	0.326904	40	0.2954511	50	0.3200354	60	0.319605
Diethylphthalate	5	1.660709	10	1.577697	20	1.524236	40	1.261	50	1.233003	60	1.223311
2,4-Dimethylphenol	5	0.3868736	10	0.3553646	20	0.3612512	40	0.3462765	50	0.3329041	60	0.3471536
Dimethyl phthalate	5	1.371102	10	1.473182	20	1.50951	40	1.243328	50	1.313868	60	1.251818
4,6-Dinitro-2-methylphenol	5	5.478294E-02	10	6.840982E-02	20	0.1071133	40	0.1333907	50	0.1503998	60	0.1421705
2,4-Dinitrophenol	5	~~5.062163E-02~~	10	6.237037E-02	20	0.1011521	40	0.1317647	50	0.1515695	60	0.1605612
2,4-Dinitrotoluene	5	0.3090174	10	0.3793169	20	0.4185296	40	0.3974313	50	0.3875191	60	0.3787391
2,6-Dinitrotoluene	5	0.3183163	10	0.3493131	20	0.3754144	40	0.3444299	50	0.3554451	60	0.3624102
Di-n-octylphthalate	5	1.6316	10	1.635798	20	1.910787	40	1.92312	50	1.690144	60	1.92358
1,4-Dioxane												
1,2-Diphenylhydrazine	5	0.9580609	10	1.008812	20	0.8802152	40	0.8420501	50	0.8308116	60	0.7998217
Bis(2-ethylhexyl)phthalate	5	0.9781605	10	1.042781	20	1.141739	40	1.073501	50	1.024078	60	1.086512
Fluoranthene	5	1.174554	10	1.119604	20	1.158582	40	1.010021	50	1.108267	60	1.002067
Fluorene	5	1.293421	10	1.21811	20	1.266726	40	1.122978	50	1.117687	60	1.11628
2-Fluorobiphenyl	5	1.345385	10	1.322831	20	1.520308	40	1.324401	50	1.225178	60	1.232052
2-Fluorophenol	10	1.351626	20	1.413124	40	1.336365	80	1.187975	100	1.20463	120	1.147633
Hexachlorobenzene	5	0.2665323	10	0.2655703	20	0.2697611	40	0.2648784	50	0.2590678	60	0.2544472
Hexachlorobutadiene	5	0.2026878	10	0.1856802	20	0.1853857	40	0.1781549	50	0.170282	60	0.1647461
Hexachlorocyclopentadiene	5	0.2904279	10	0.3291612	20	0.3651913	40	0.3514916	50	0.367711	60	0.3489062
Hexachloroethane	5	0.6518942	10	0.6308284	20	0.5940863	40	0.5416978	50	0.5772956	60	0.5438372
Indeno(1,2,3-cd)pyrene	5	0.9892853	10	0.9494004	20	0.9327697	40	0.9464554	50	0.9040208	60	0.8189074
Isophorone	5	0.8217078	10	0.8399116	20	0.7783914	40	0.749957	50	0.7902478	60	0.746112
1-Methylnaphthalene	5	0.5974456	10	0.5823433	20	0.5405367	40	0.4803757	50	0.4934924	60	0.4820733
2-Methylnaphthalene	5	0.5430144	10	0.5513543	20	0.5312456	40	0.4988653	50	0.4906804	60	0.4548918
2-Methylphenol	5	1.286482	10	1.250346	20	1.247537	40	1.126521	50	1.096435	60	1.008644

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3+4-Methylphenol	5	1.253529	10	1.307357	20	1.301847	40	1.200152	50	1.183712	60	1.087107
Naphthalene	5	1.116486	10	1.119735	20	1.067584	40	0.9710557	50	0.9156539	60	0.8994825
4-Nitroaniline	5	0.2224683	10	0.2128799	20	0.1693595	40	0.2175572	50	0.2554806	60	0.2397759
3-Nitroaniline	5	0.3255846	10	0.3423936	20	0.370489	40	0.3366752	50	0.3401997	60	0.3519287
2-Nitroaniline	5	0.2654652	10	0.3352421	20	0.3339656	40	0.3505404	50	0.3128571	60	0.3442502
Nitrobenzene	5	0.3891568	10	0.4016634	20	0.3673868	40	0.3628202	50	0.3639734	60	0.3552985
Nitrobenzene-d5	5	0.3956987	10	0.3972185	20	0.3663041	40	0.3665365	50	0.3848744	60	0.3536817
4-Nitrophenol	5	0.1497267	10	0.1860405	20	0.2060501	40	0.1954678	50	0.2163265	60	0.210757
2-Nitrophenol	5	0.2103668	10	0.2175712	20	0.2231657	40	0.2457888	50	0.2287002	60	0.2342643
N-Nitrosodimethylamine	5	0.4875362	10	0.5489131	20	0.5766275	40	0.6186587	50	0.5975275	60	0.5849924
N-Nitrosodiphenylamine	5	0.692447	10	0.7515103	20	0.7118897	40	0.6351698	50	0.6608435	60	0.6252076
N-Nitroso-di-n-propylamine	5	0.9311666	10	0.9269374	20	0.9262252	40	0.819147	50	0.8173453	60	0.7504894
Pentachlorophenol	5	0.1241727	10	0.1201355	20	0.1663006	40	0.1612227	50	0.1801354	60	0.1769821
Phenanthrene	5	1.200445	10	1.166657	20	1.130055	40	1.056359	50	1.059757	60	0.986977
Phenol	5	1.751446	10	1.879768	20	1.637272	40	1.637659	50	1.575537	60	1.559301
Phenol-d6	10	1.647681	20	1.763422	40	1.626008	80	1.603414	100	1.524433	120	1.494738
Pyrene	5	1.419325	10	1.399579	20	1.383023	40	1.359213	50	1.24653	60	1.29918
Pyridine	5	1.537536	10	1.635782	20	1.541409	40	1.602552	50	1.575985	60	1.509723
Terphenyl-d14	5	0.7926602	10	0.8057548	20	0.8474803	40	0.8784666	50	0.8111087	60	0.848248
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	5	0.2994616	10	0.3272414	20	0.3682806	40	0.3554998	50	0.3512989	60	0.3437278
2,4,6-Tribromophenol	10	0.1431756	20	0.1442165	40	0.1561332	80	0.1413181	100	0.1487108	120	0.1437723
1,2,4-Trichlorobenzene	5	0.3682245	10	0.3577617	20	0.3747519	40	0.3449513	50	0.3420562	60	0.3493295
2,4,6-Trichlorophenol	5	0.3758167	10	0.3963889	20	0.4193174	40	0.4066011	50	0.3828678	60	0.38452
2,4,5-Trichlorophenol	5	0.4069373	10	0.4358068	20	0.4686353	40	0.4421245	50	0.4433099	60	0.420189

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3,3'-Dichlorobenzidine					5	0.345776	10	0.3735446	20	0.3383405	40	0.4092793
Acenaphthene	80	1.018418	100	0.9095531								
Acenaphthylene	80	1.475834	100	1.517921								
Acetophenone					5	1.718495	10	1.63753	20	1.524418	40	1.571136
Aniline	80	1.838443	100	1.811652								
Anthracene	80	0.986327	100	0.9420685								
Atrazine					5	0.1907566	10	0.1974337	20	0.2066576	40	0.208239
Benzaldehyde					5	1.141413	10	1.160982	20	1.025443	40	1.064124
Benzidine					5	0.4873597	10	0.5759976	20	0.629192	40	0.6726627
Benzo(a)anthracene	80	1.085961	100	1.065421								
Benzo(a)pyrene	80	1.049837	100	1.00649								
Benzo(b)fluoranthene	80	1.072877	100	1.114459								
Benzo(g,h,i)perylene	80	0.781589	100	0.6663042								
Benzoic acid	80	0.2779468	100	0.2820542								
Benzo(k)fluoranthene	80	1.178262	100	1.066763								
Benzyl alcohol	80	0.7987832	100	0.7636324								
1,1-Biphenyl					5	1.660318	10	1.616332	20	1.415179	40	1.433678
4-Bromophenyl-phenylether	80	0.2214796	100	0.2055715								
Butylbenzylphthalate	80	0.732991	100	0.6918112								
Caprolactam					5	0.119707	10	0.1253949	20	0.1145069	40	0.1360062
Carbazole	80	0.7878224	100	0.7760328								
4-Chloro-3-methylphenol	80	0.2602546	100	0.2512146								
4-Chloroaniline	80	0.4006734	100	0.4141308								
Bis(2-chloroethoxy)methane	80	0.4141729	100	0.4082329								
Bis(2-chloroethyl)ether	80	1.290856	100	1.209098								
2,2'-Oxybis-1-chloropropane	80	1.555193	100	1.808949								
2-Chloronaphthalene	80	1.019875	100	1.06234								
2-Chlorophenol	80	1.275381	100	1.260114								
4-Chlorophenyl phenyl ether	80	0.5055696	100	0.4550214								
Chrysene	80	1.03431	100	0.996392								
Dibenz(a,h)anthracene	80	0.8216482	100	0.7302443								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Dibenzofuran	80	1.272312	100	1.282609								
Di-n-butylphthalate	80	1.25377	100	1.212919								
1,4-Dichlorobenzene	80	1.202188	100	1.192058								
1,3-Dichlorobenzene	80	1.268259	100	1.304134								
1,2-Dichlorobenzene	80	1.152838	100	1.120647								
2,6-Dichlorophenol					5	0.3378312	10	0.327105	20	0.2967903	40	0.2951475
2,4-Dichlorophenol	80	0.3094633	100	0.3044136								
Diethylphthalate	80	1.164583	100	1.135723								
2,4-Dimethylphenol	80	0.310377	100	0.2939744								
Dimethyl phthalate	80	1.246383	100	1.163514								
4,6-Dinitro-2-methylphenol	80	0.141276	100	0.1458094								
2,4-Dinitrophenol	80	0.1730286	100	0.1784883								
2,4-Dinitrotoluene	80	0.3429866	100	0.3779481								
2,6-Dinitrotoluene	80	0.3355308	100	0.3457358								
Di-n-octylphthalate	80	1.727296	100	1.901108								
1,4-Dioxane					5	0.7076939	10	0.7115041	20	0.6327187	40	0.6201284
1,2-Diphenylhydrazine	80	0.7293861	100	0.6287272								
Bis(2-ethylhexyl)phthalate	80	0.9241547	100	0.9297745								
Fluoranthene	80	1.007233	100	1.002433								
Fluorene	80	1.079617	100	0.961522								
2-Fluorobiphenyl	80	1.237633	100	1.19141								
2-Fluorophenol	160	1.052205	200	1.104915								
Hexachlorobenzene	80	0.2593156	100	0.2389274								
Hexachlorobutadiene	80	0.1585373	100	0.1651874								
Hexachlorocyclopentadiene	80	0.3745824	100	0.3733203								
Hexachloroethane	80	0.5195182	100	0.5209373								
Indeno(1,2,3-cd)pyrene	80	0.9751703	100	0.8667418								
Isophorone	80	0.7366049	100	0.7091168								
1-Methylnaphthalene	80	0.4428706	100	0.4445212								
2-Methylnaphthalene	80	0.4483581	100	0.4288413								
2-Methylphenol	80	1.011912	100	1.054777								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3+4-Methylphenol	80	1.08938	100	1.065014								
Naphthalene	80	0.803674	100	0.8087121								
4-Nitroaniline	80	0.265351	100	0.2644746								
3-Nitroaniline	80	0.3683457	100	0.3506128								
2-Nitroaniline	80	0.3309131	100	0.3278767								
Nitrobenzene	80	0.316403	100	0.3115827								
Nitrobenzene-d5	80	0.3468868	100	0.3422753								
4-Nitrophenol	80	0.2207467	100	0.1969781								
2-Nitrophenol	80	0.2149201	100	0.2181142								
N-Nitrosodimethylamine	80	0.5484751	100	0.6183085								
N-Nitrosodiphenylamine	80	0.6238943	100	0.5782682								
N-Nitroso-di-n-propylamine	80	0.7585171	100	0.743702								
Pentachlorophenol	80	0.1807552	100	0.1820394								
Phenanthrene	80	0.9344506	100	0.9248322								
Phenol	80	1.423146	100	1.454171								
Phenol-d6	160	1.34971	200	1.445646								
Pyrene	80	1.21817	100	1.066224								
Pyridine	80	1.577055	100	1.61602								
Terphenyl-d14	80	0.7819749	100	0.7308348								
1,2,4,5-Tetrachlorobenzene					5	0.3041409	10	0.2738675	20	0.2545837	40	0.3138555
2,3,4,6-Tetrachlorophenol	80	0.317592	100	0.3289565								
2,4,6-Tribromophenol	160	0.1452231	200	0.1366756								
1,2,4-Trichlorobenzene	80	0.3106524	100	0.3076826								
2,4,6-Trichlorophenol	80	0.4245115	100	0.4173965								
2,4,5-Trichlorophenol	80	0.429527	100	0.4083834								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3,3'-Dichlorobenzidine	50	0.4022903	60	0.4065189	80	0.4043308	100	0.3922965				
Acenaphthene												
Acenaphthylene												
Acetophenone	50	1.546064	60	1.573002	80	1.455533	100	1.415772				
Aniline												
Anthracene												
Atrazine	50	0.2045953	60	0.2127531	80	0.205928	100	0.2134976				
Benzaldehyde	50	0.9565525	60	0.9552402	80	0.9441259	100	0.8525288				
Benzidine	50	0.6711953	60	0.6374861	80	0.6973172	100	0.6804112				
Benzo(a)anthracene												
Benzo(a)pyrene												
Benzo(b)fluoranthene												
Benzo(g,h,i)perylene												
Benzoic acid												
Benzo(k)fluoranthene												
Benzyl alcohol												
1,1-Biphenyl	50	1.271071	60	1.516557	80	1.359401	100	1.268587				
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50	0.1337222	60	0.1317621	80	0.1321053	100	0.1188764				
Carbazole												
4-Chloro-3-methylphenol												
4-Chloroaniline												
Bis(2-chloroethoxy)methane												
Bis(2-chloroethyl)ether												
2,2'-Oxybis-1-chloropropane												
2-Chloronaphthalene												
2-Chlorophenol												
4-Chlorophenyl phenyl ether												
Chrysene												
Dibenz(a,h)anthracene												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Dibenzofuran												
Di-n-butylphthalate												
1,4-Dichlorobenzene												
1,3-Dichlorobenzene												
1,2-Dichlorobenzene												
2,6-Dichlorophenol	50	0.3247614	60	0.3152692	80	0.3067876	100	0.3061151				
2,4-Dichlorophenol												
Diethylphthalate												
2,4-Dimethylphenol												
Dimethyl phthalate												
4,6-Dinitro-2-methylphenol												
2,4-Dinitrophenol												
2,4-Dinitrotoluene												
2,6-Dinitrotoluene												
Di-n-octylphthalate												
1,4-Dioxane	50	0.572512	60	0.6466837	80	0.6451679	100	0.6224177				
1,2-Diphenylhydrazine												
Bis(2-ethylhexyl)phthalate												
Fluoranthene												
Fluorene												
2-Fluorobiphenyl												
2-Fluorophenol												
Hexachlorobenzene												
Hexachlorobutadiene												
Hexachlorocyclopentadiene												
Hexachloroethane												
Indeno(1,2,3-cd)pyrene												
Isophorone												
1-Methylnaphthalene												
2-Methylnaphthalene												
2-Methylphenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3+4-Methylphenol												
Naphthalene												
4-Nitroaniline												
3-Nitroaniline												
2-Nitroaniline												
Nitrobenzene												
Nitrobenzene-d5												
4-Nitrophenol												
2-Nitrophenol												
N-Nitrosodimethylamine												
N-Nitrosodiphenylamine												
N-Nitroso-di-n-propylamine												
Pentachlorophenol												
Phenanthrene												
Phenol												
Phenol-d6												
Pyrene												
Pyridine												
Terphenyl-d14												
1,2,4,5-Tetrachlorobenzene	50	0.3096277	60	0.285836	80	0.2829317	100	0.2756055				
2,3,4,6-Tetrachlorophenol												
2,4,6-Tribromophenol												
1,2,4-Trichlorobenzene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3,3'-Dichlorobenzidine	0.3840471	7.376638	14.80975	2.744989E-02			15	
Acenaphthene	1.082656	9.483861	9.821625	5.657461E-02			CCC (30)	
Acenaphthylene	1.744325	12.75083	9.605125	6.858755E-02			15	
Acetophenone	1.555244	6.168212	6.634375	7.218448E-02			15	
Aniline	1.950237	5.831973	5.807375	0.1033171			15	
Anthracene	1.056507	8.585155	11.68625	5.730172E-02			15	
Atrazine	0.2049826	3.718523	11.27987	9.895935E-02			15	
Benzaldehyde	1.012551	10.43666	5.684375	9.183361E-02			15	
Benzidine	0.6314527	11.01948	13.25575	3.711405E-02			15	
Benzo(a)anthracene	1.138713	4.414255	14.83125	3.720446E-02			15	
Benzo(a)pyrene	1.044021	4.547513	16.52988	3.873379E-02			CCC (30)	
Benzo(b)fluoranthene	1.099993	3.348838	16.14687	3.650013E-02			15	
Benzo(g,h,i)perylene	0.758931	7.956935	18.3315	6.411751E-02			15	
Benzoic acid	0.2348828	24.43774	7.4215	0.7447993	0.9967614		0.995	
Benzo(k)fluoranthene	1.214732	7.667493	16.18175	5.256876E-02			15	
Benzyl alcohol	0.8492835	5.904117	6.339625	0.134646			15	
1,1-Biphenyl	1.44264	10.16426	9.0865	7.580724E-02			15	
4-Bromophenyl-phenylether	0.2302946	7.64967	11.058	3.698206E-02			15	
Butylbenzylphthalate	0.7695074	6.808174	14.17538	0.0181131			15	
Caprolactam	0.1265101	6.344437	8.16975	0.2428858			15	
Carbazole	0.9188467	13.42596	11.88687	4.735667E-02			15	
4-Chloro-3-methylphenol	0.2827335	6.739682	8.335875	5.589678E-02			CCC (30)	
4-Chloroaniline	0.4407449	7.602189	7.752375	5.839612E-02			15	
Bis(2-chloroethoxy)methane	0.4591519	9.024322	7.3845	9.015245E-02			15	
Bis(2-chloroethyl)ether	1.34682	8.949026	5.887375	0.1010167			15	
2,2'-Oxybis-1-chloropropane	1.935852	14.19111	6.495	7.787477E-02			15	
2-Chloronaphthalene	1.140238	8.268771	9.102	5.514584E-02			15	
2-Chlorophenol	1.301605	5.44966	5.93325	0.0640218			15	
4-Chlorophenyl phenyl ether	0.5334126	7.569953	10.46213	3.392237E-02			15	
Chrysene	1.122748	6.577449	14.87787	4.224206E-02			15	
Dibenz(a,h)anthracene	0.7664032	5.859635	17.97362	4.666747E-02			15	
Dibenzofuran	1.497787	11.31125	10.03125	6.286963E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Date:	1/26/2011 3:40:11PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Di-n-butylphthalate	1.375428	8.7109	12.34463	0.0340847			15	
1,4-Dichlorobenzene	1.379566	10.94327	6.191375	6.203767E-02			CCC (30)	
1,3-Dichlorobenzene	1.410647	7.838891	6.106	5.463781E-02			15	
1,2-Dichlorobenzene	1.314556	11.58735	6.360125	4.155267E-02			15	
2,6-Dichlorophenol	0.3137259	4.852462	7.75425	4.420223E-02			15	
2,4-Dichlorophenol	0.3178164	4.983195	7.490125	8.883757E-02			CCC (30)	
Diethylphthalate	1.347533	15.27682	10.34412	9.254366E-02	0.9972915		0.995	
2,4-Dimethylphenol	0.3417719	8.563737	7.26575	0.1065429			15	
Dimethyl phthalate	1.321588	9.153659	9.484625	0.1434108			15	
4,6-Dinitro-2-methylphenol	0.1179191	31.66593	10.527	0.1204279	0.9973104		0.995	
2,4-Dinitrophenol	0.1369907	30.78159	9.873571	9.653076E-02	0.9960785		SPCC (0.05)	
2,4-Dinitrotoluene	0.373936	9.021128	10.03375	9.903814E-02			15	
2,6-Dinitrotoluene	0.3483244	4.936864	9.545375	0.1119241			15	
Di-n-octylphthalate	1.792929	7.459237	15.71263	0.024866			CCC (30)	
1,4-Dioxane	0.6448533	7.152144	3.019375	0.1113753			15	
1,2-Diphenylhydrazine	0.8347356	14.48987	10.65375	4.850528E-02			15	
Bis(2-ethylhexyl)phthalate	1.025088	7.512426	14.90587	0.0193314			15	
Fluoranthene	1.072845	6.98906	13.07425	4.253064E-02			CCC (30)	
Fluorene	1.147043	9.444569	10.45175	5.284617E-02			15	
2-Fluorobiphenyl	1.2999	8.100212	8.967125	3.987571E-02			15	
2-Fluorophenol	1.224809	10.50463	4.742625	0.1316694			15	
Hexachlorobenzene	0.2598125	3.761925	11.1185	4.707497E-02			15	
Hexachlorobutadiene	0.1763327	8.243307	7.8355	4.165048E-02			CCC (30)	
Hexachlorocyclopentadiene	0.350099	8.135736	8.706625	3.605388E-02			SPCC (0.05)	
Hexachloroethane	0.5725119	8.716146	6.7485	3.321397E-02			15	
Indeno(1,2,3-cd)pyrene	0.9228439	6.186788	17.94762	5.505283E-02			15	
Isophorone	0.7715062	5.758819	7.1245	0.1880514			15	
1-Methylnaphthalene	0.5079573	11.64757	8.633	4.208229E-02			15	
2-Methylnaphthalene	0.4934064	9.372333	8.513125	5.344917E-02			15	
2-Methylphenol	1.135332	9.877222	6.461875	0.1007337			15	
3+4-Methylphenol	1.186012	8.228414	6.647625	0.1700502			15	
Naphthalene	0.9627979	13.28902	7.679625	6.733623E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4-Nitroaniline	0.2309184	14.04035	10.48912	0.1289535			15	
3-Nitroaniline	0.3482787	4.427347	9.746125	0.1226337			15	
2-Nitroaniline	0.3251388	8.173008	9.237625	6.849578E-02			15	
Nitrobenzene	0.3585356	8.765722	6.833875	0.1095103			15	
Nitrobenzene-d5	0.3691845	5.802246	6.809875	9.945623E-02			15	
4-Nitrophenol	0.1977617	11.40524	9.955125	0.1174457			SPCC (0.05)	
2-Nitrophenol	0.2241114	5.190145	7.205375	6.189121E-02			CCC (30)	
N-Nitrosodimethylamine	0.5726299	7.635147	3.346125	0.1829083			15	
N-Nitrosodiphenylamine	0.6599038	8.482011	10.61075	6.517892E-02			CCC (30)	
N-Nitroso-di-n-propylamine	0.8341912	9.917143	6.653625	0.1894353			SPCC (0.05)	
Pentachlorophenol	0.1614679	15.71491	11.36463	3.521819E-02	0.9986717		CCC (30)	
Phenanthrene	1.057442	9.810503	11.62413	4.673016E-02			15	
Phenol	1.614787	9.276235	5.7815	0.2208323			CCC (30)	
Phenol-d6	1.556882	8.341379	5.768125	0.2252886			15	
Pyrene	1.298906	9.144153	13.35137	4.721813E-02			15	
Pyridine	1.574508	2.729928	3.381875	0.3664935			15	
Terphenyl-d14	0.812066	5.680172	13.56038	3.188842E-02			15	
1,2,4,5-Tetrachlorobenzene	0.2875561	7.072892	8.715	4.094783E-02			15	
2,3,4,6-Tetrachlorophenol	0.3365073	6.658431	10.18512	5.841319E-02			15	
2,4,6-Tribromophenol	0.1449031	3.921225	10.74725	8.448053E-02			15	
1,2,4-Trichlorobenzene	0.3444263	7.098695	7.588375	0.0361532			15	
2,4,6-Trichlorophenol	0.4009275	4.66083	8.857625	4.361742E-02			CCC (30)	
2,4,5-Trichlorophenol	0.4318641	4.727981	8.89625	5.449523E-02			15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/26/11
Lab Sample ID:	1B03208-ICV1	Injection Time:	23:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	48.86	1.082656	1.057895		-2.3	20
Acenaphthylene	A	50.00	53.91	1.744325	1.88061		7.8	20
Anthracene	A	50.00	54.49	1.056507	1.151439		9.0	20
Benzo(a)anthracene	A	50.00	48.79	1.138713	1.111173		-2.4	20
Benzo(a)pyrene	A	50.00	51.01	1.044021	1.065141		2.0	20
Benzo(b)fluoranthene	A	50.00	53.46	1.099993	1.176117		6.9	20
Benzo(g,h,i)perylene	A	50.00	48.22	0.758931	0.7319486		-3.6	20
Benzoic acid	L	50.00	49.49	0.2348828	0.2661538		-1.0	20
Benzo(k)fluoranthene	A	50.00	51.57	1.214732	1.252919		3.1	20
4-Bromophenyl-phenylether	A	50.00	50.34	0.2302946	0.2318677		0.7	20
Butylbenzylphthalate	A	50.00	48.50	0.7695074	0.7463976		-3.0	20
Carbazole	A	50.00	49.83	0.9188467	0.9156435		-0.3	20
4-Chloro-3-methylphenol	A	50.00	48.88	0.2827335	0.2763814		-2.2	20
4-Chloroaniline	A	50.00	48.88	0.4407449	0.4308957		-2.2	20
Bis(2-chloroethoxy)methane	A	50.00	48.87	0.4591519	0.4488008		-2.3	20
Bis(2-chloroethyl)ether	A	50.00	51.95	1.34682	1.39927		3.9	20
2,2'-Oxybis-1-chloropropane	A	50.00	52.78	1.935852	2.04349		5.6	20
2-Chloronaphthalene	A	50.00	54.43	1.140238	1.241253		8.9	20
2-Chlorophenol	A	50.00	55.87	1.301605	1.45441		11.7	20
4-Chlorophenyl phenyl ether	A	50.00	53.91	0.5334126	0.5751643		7.8	20
Chrysene	A	50.00	49.81	1.122748	1.118473		-0.4	20
Dibenz(a,h)anthracene	A	50.00	51.54	0.7664032	0.7899782		3.1	20
Dibenzofuran	A	50.00	53.13	1.497787	1.591559		6.3	20
Di-n-butylphthalate	A	50.00	53.06	1.375428	1.459543		6.1	20
2,4-Dichlorophenol	A	50.00	50.78	0.3178164	0.3228019		1.6	20
2,4-Dimethylphenol	A	50.00	53.12	0.3417719	0.363117		6.2	20
Dimethyl phthalate	A	50.00	46.62	1.321588	1.232204		-6.8	20
4,6-Dinitro-2-methylphenol	L	50.00	57.23	0.1179191	0.1614366		14.5	20
2,4-Dinitrotoluene	A	50.00	56.52	0.373936	0.4227034		13.0	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/26/11
Lab Sample ID:	1B03208-ICV1	Injection Time:	23:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,6-Dinitrotoluene	A	50.00	56.02	0.3483244	0.3902734		12.0	20
Di-n-octylphthalate	A	50.00	54.25	1.792929	1.945241		8.5	20
1,2-Diphenylhydrazine	A	50.00	55.94	0.8347356	0.9339785		11.9	20
Bis(2-ethylhexyl)phthalate	A	50.00	48.68	1.025088	0.9980238		-2.6	20
Fluoranthene	A	50.00	53.77	1.072845	1.153832		7.5	20
Fluorene	A	50.00	54.89	1.147043	1.25925		9.8	20
Hexachlorobenzene	A	50.00	52.99	0.2598125	0.2753324		6.0	20
Hexachlorobutadiene	A	50.00	50.82	0.1763327	0.1792089		1.6	20
Hexachlorocyclopentadiene	A	50.00	53.52	0.350099	0.3747613	0.05	7.0	20
Hexachloroethane	A	50.00	51.75	0.5725119	0.5925988		3.5	20
Indeno(1,2,3-cd)pyrene	A	50.00	50.45	0.9228439	0.9311681		0.9	20
Isophorone	A	50.00	44.69	0.7715062	0.6895249		-10.6	20
1-Methylnaphthalene	A	50.00	47.14	0.5079573	0.4789479		-5.7	20
2-Methylnaphthalene	A	50.00	47.28	0.4934064	0.4665976		-5.4	20
2-Methylphenol	A	50.00	55.42	1.135332	1.258309		10.8	20
3+4-Methylphenol	A	50.00	48.86	1.186012	1.158893		-2.3	20
3-Nitroaniline	A	50.00	56.90	0.3482787	0.3963161		13.8	20
2-Nitroaniline	A	50.00	53.24	0.3251388	0.3462363		6.5	20
Nitrobenzene	A	50.00	45.58	0.3585356	0.3268608		-8.8	20
4-Nitrophenol	A	50.00	55.39	0.1977617	0.2190963	0.05	10.8	20
2-Nitrophenol	A	50.00	54.79	0.2241114	0.2455745		9.6	20
N-Nitrosodiphenylamine	A	50.00	56.39	0.6599038	0.7442938		12.8	20
N-Nitroso-di-n-propylamine	A	50.00	49.68	0.8341912	0.8288013	0.05	-0.6	20
Phenanthrene	A	50.00	56.16	1.057442	1.187789		12.3	20
Phenol	A	50.00	56.47	1.614787	1.823722		12.9	20
Pyrene	A	50.00	48.44	1.298906	1.258473		-3.1	20
2,4,6-Trichlorophenol	A	50.00	54.97	0.4009275	0.440817		9.9	20
2,4,5-Trichlorophenol	A	50.00	53.87	0.4318641	0.4652694		7.7	20
2-Fluorobiphenyl	A	50.00	56.18	1.2999	1.460568		12.4	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/26/11
Lab Sample ID:	1B03208-ICV1	Injection Time:	23:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2-Fluorophenol	A	100.0	113.8	1.224809	1.394017		13.8	20
Nitrobenzene-d5	A	50.00	51.69	0.3691845	0.3816462		3.4	20
Terphenyl-d14	A	50.00	45.39	0.812066	0.7371136		-9.2	20
2,4,6-Tribromophenol	A	100.0	118.8	0.1449031	0.1721949		18.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV2.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/26/11
Lab Sample ID:	1B03208-ICV2	Injection Time:	23:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
3,3'-Dichlorobenzidine	A	50.00	51.60	0.3840471	0.3963298		3.2	20
Acetophenone	A	50.00	51.76	1.555244	1.609954		3.5	20
Atrazine	A	50.00	52.28	0.2049826	0.214327		4.6	20
Benzaldehyde	A	50.00	43.46	1.012551	0.8801513		-13.1	20
Benzidine	A	50.00	50.30	0.6314527	0.6352446		0.6	20
1,1-Biphenyl	A	50.00	55.15	1.44264	1.591358		10.3	20
Caprolactam	A	50.00	55.66	0.1265101	0.1408405		11.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV3.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/27/11
Lab Sample ID:	1B03208-ICV3	Injection Time:	00:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diethylphthalate	L	50.00	48.25	1.347533	1.174754		-3.5	20
2,4-Dinitrophenol	L	50.00	57.52	0.1369907	0.1861539	0.05	15.0	20
Pentachlorophenol	L	50.00	58.37	0.1614679	0.2074009		16.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV4.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/28/11
Lab Sample ID:	1B03208-ICV4	Injection Time:	10:25

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
4-Nitroaniline	A	50.00	42.68	0.2309184	0.1971107		-14.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B04714	Injection Date:	02/15/11
Lab Sample ID:	1B04714-CCV1	Injection Time:	11:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
3,3'-Dichlorobenzidine	A	50.00	49.24	0.3840471	0.3782314		-1.5	20	
Acenaphthene	A	50.00	49.72	1.082656	1.076589		-0.6	20	
Acenaphthylene	A	50.00	53.02	1.744325	1.849695		6.0	20	
Acetophenone	A	50.00	47.68	1.555244	1.48298		-4.6	20	
Anthracene	A	50.00	50.01	1.056507	1.056783		0.03	20	
Atrazine	A	50.00	40.89	0.2049826	0.16762		-18.2	20	
Benzaldehyde	A	50.00	29.60	1.012551	0.5995251		-40.8	20	*
Benzidine	A	50.00	22.77	0.6314527	0.2875714		-54.5	20	*
Benzo(a)anthracene	A	50.00	49.46	1.138713	1.126403		-1.1	20	
Benzo(a)pyrene	A	50.00	50.08	1.044021	1.045722		0.2	20	
Benzo(b)fluoranthene	A	50.00	54.13	1.099993	1.190954		8.3	20	
Benzo(g,h,i)perylene	A	50.00	52.04	0.758931	0.7898879		4.1	20	
Benzoic acid	L	50.00	56.40	0.2348828	0.3069759		12.8	20	
Benzo(k)fluoranthene	A	50.00	51.61	1.214732	1.253844		3.2	20	
1,1-Biphenyl	A	50.00	47.70	1.44264	1.37617		-4.6	20	
4-Bromophenyl-phenylether	A	50.00	48.50	0.2302946	0.2233699		-3.0	20	
Butylbenzylphthalate	A	50.00	50.06	0.7695074	0.7704444		0.1	20	
Caprolactam	A	50.00	50.88	0.1265101	0.1287439		1.8	20	
Carbazole	A	50.00	52.81	0.9188467	0.9704088		5.6	20	
4-Chloro-3-methylphenol	A	50.00	55.13	0.2827335	0.3117197		10.3	20	
4-Chloroaniline	A	50.00	46.95	0.4407449	0.4138776		-6.1	20	
Bis(2-chloroethoxy)methane	A	50.00	51.48	0.4591519	0.472702		3.0	20	
Bis(2-chloroethyl)ether	A	50.00	51.74	1.34682	1.393695		3.5	20	
2,2'-Oxybis-1-chloropropane	A	50.00	42.46	1.935852	1.644027		-15.1	20	
2-Chloronaphthalene	A	50.00	58.84	1.140238	1.341774		17.7	20	
2-Chlorophenol	A	50.00	54.96	1.301605	1.430684		9.9	20	
4-Chlorophenyl phenyl ether	A	50.00	45.13	0.5334126	0.4814075		-9.7	20	
Chrysene	A	50.00	42.69	1.122748	0.9585834		-14.6	20	
Dibenz(a,h)anthracene	A	50.00	55.13	0.7664032	0.8449842		10.3	20	

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B04714	Injection Date:	02/15/11
Lab Sample ID:	1B04714-CCV1	Injection Time:	11:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Dibenzofuran	A	50.00	44.65	1.497787	1.337464		-10.7	20	
Di-n-butylphthalate	A	50.00	53.32	1.375428	1.466819		6.6	20	
2,4-Dichlorophenol	A	50.00	56.36	0.3178164	0.3582686		12.7	20	
Diethylphthalate	L	50.00	57.74	1.347533	1.383416		15.5	20	
2,4-Dimethylphenol	A	50.00	52.96	0.3417719	0.3620293		5.9	20	
Dimethyl phthalate	A	50.00	52.08	1.321588	1.376648		4.2	20	
4,6-Dinitro-2-methylphenol	L	50.00	60.18	0.1179191	0.1704704		20.4	20	*
2,4-Dinitrophenol	L	50.00	62.72	0.1369907	0.2064835	0.05	25.4	20	*
2,4-Dinitrotoluene	A	50.00	51.25	0.373936	0.3832829		2.5	20	
2,6-Dinitrotoluene	A	50.00	52.83	0.3483244	0.3680139		5.7	20	
Di-n-octylphthalate	A	50.00	59.45	1.792929	2.131891		18.9	20	
1,2-Diphenylhydrazine	A	50.00	47.21	0.8347356	0.7882167		-5.6	20	
Bis(2-ethylhexyl)phthalate	A	50.00	40.95	1.025088	0.8396445		-18.1	20	
Fluoranthene	A	50.00	46.63	1.072845	1.000497		-6.7	20	
Fluorene	A	50.00	46.22	1.147043	1.06031		-7.6	20	
Hexachlorobenzene	A	50.00	46.74	0.2598125	0.2428556		-6.5	20	
Hexachlorobutadiene	A	50.00	48.97	0.1763327	0.1727059		-2.1	20	
Hexachlorocyclopentadiene	A	50.00	42.46	0.350099	0.2972804	0.05	-15.1	20	
Hexachloroethane	A	50.00	48.71	0.5725119	0.5577143		-2.6	20	
Indeno(1,2,3-cd)pyrene	A	50.00	55.01	0.9228439	1.015268		10.0	20	
Isophorone	A	50.00	49.27	0.7715062	0.7602834		-1.5	20	
1-Methylnaphthalene	A	50.00	53.46	0.5079573	0.543117		6.9	20	
2-Methylnaphthalene	A	50.00	51.77	0.4934064	0.5108882		3.5	20	
2-Methylphenol	A	50.00	50.54	1.135332	1.14749		1.1	20	
3+4-Methylphenol	A	50.00	44.36	1.186012	1.052297		-11.3	20	
4-Nitroaniline	A	50.00	68.02	0.2309184	0.3141572		36.0	20	*
3-Nitroaniline	A	50.00	53.15	0.3482787	0.3702158		6.3	20	
2-Nitroaniline	A	50.00	59.45	0.3251388	0.3865918		18.9	20	
Nitrobenzene	A	50.00	49.08	0.3585356	0.3519036		-1.8	20	

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B04714	Injection Date:	02/15/11
Lab Sample ID:	1B04714-CCV1	Injection Time:	11:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4-Nitrophenol	A	50.00	46.80	0.1977617	0.1851206	0.05	-6.4	20	
2-Nitrophenol	A	50.00	55.22	0.2241114	0.2475087		10.4	20	
N-Nitrosodiphenylamine	A	50.00	45.60	0.6599038	0.6017739		-8.8	20	
N-Nitroso-di-n-propylamine	A	50.00	41.59	0.8341912	0.6938074	0.05	-16.8	20	
Pentachlorophenol	L	50.00	52.96	0.1614679	0.1871803		5.9	20	
Phenanthrene	A	50.00	51.00	1.057442	1.078628		2.0	20	
Phenol	A	50.00	50.46	1.614787	1.629765		0.9	20	
Pyrene	A	50.00	60.18	1.298906	1.563362		20.4	20	*
2,4,6-Trichlorophenol	A	50.00	53.81	0.4009275	0.4315002		7.6	20	
2,4,5-Trichlorophenol	A	50.00	53.46	0.4318641	0.4617106		6.9	20	
2-Fluorobiphenyl	A	50.00	51.24	1.2999	1.332196		2.5	20	
2-Fluorophenol	A	100.0	99.79	1.224809	1.222194		-0.2	20	
Nitrobenzene-d5	A	50.00	48.22	0.3691845	0.3560615		-3.6	20	
Phenol-d6	A	100.0	98.21	1.556882	1.529062		-1.8	20	
Terphenyl-d14	A	50.00	54.66	0.812066	0.8877527		9.3	20	
2,4,6-Tribromophenol	A	100.0	101.5	0.1449031	0.147113		1.5	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B11003-BLK1 File ID: B11003B1.D

Sampled: Prepared: Analyzed: 02/15/11 18:37

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	Y, U
92-87-5	Benzidine		12.5	25.0	50.0	Y, U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	Q, U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	X, U
51-28-5	2,4-Dinitrophenol		12.5	25.0	50.0	X, U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B11003-BLK1 File ID: B11003B1.D

Sampled: Prepared: Analyzed: 02/15/11 18:37

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	Q, U
77-47-4	Hexachlorocyclopentadiene		1.25	2.50	5.00	Q, U
67-72-1	Hexachloroethane		1.25	2.50	5.00	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
65794-96-9	3+4-Methylphenol		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	Q, X, U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	X, U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	28.37	56.7	50 - 110	
2-Fluorophenol	100.0	21.03	21.0	20 - 110	
Nitrobenzene-d5	50.00	28.73	57.5	40 - 110	
Phenol-d6	100.0	13.02	13.0	10 - 110	
Terphenyl-d14	50.00	54.42	109	50 - 135	
2,4,6-Tribromophenol	100.0	77.27	77.3	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B11003-BS1 File ID: B11003L1.D

Sampled: Prepared: Analyzed: 02/15/11 19:06

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine	49.89	1.25	2.50	5.00	
83-32-9	Acenaphthene	41.86	1.25	2.50	5.00	
208-96-8	Acenaphthylene	39.65	1.25	2.50	5.00	
98-86-2	Acetophenone	41.94	1.25	2.50	5.00	
120-12-7	Anthracene	46.11	1.25	2.50	5.00	
1912-24-9	Atrazine	53.65	1.25	2.50	5.00	
100-52-7	Benzaldehyde	41.41	1.25	2.50	5.00	Y
92-87-5	Benzidine		12.5	25.0	50.0	Y, U
56-55-3	Benzo(a)anthracene	50.29	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	47.31	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	51.28	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	56.86	1.25	2.50	5.00	
65-85-0	Benzoic acid	12.78	12.5	25.0	50.0	J
207-08-9	Benzo(k)fluoranthene	52.28	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	42.77	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	49.48	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	65.03	1.25	2.50	5.00	
105-60-2	Caprolactam	9.009	1.25	2.50	5.00	
86-74-8	Carbazole	53.00	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	46.61	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	36.01	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	47.41	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	41.57	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	37.33	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	32.91	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	34.33	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	44.64	1.25	2.50	5.00	
218-01-9	Chrysene	51.71	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	52.01	1.25	2.50	5.00	
132-64-9	Dibenzofuran	41.56	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	49.46	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	44.09	1.25	2.50	5.00	
84-66-2	Diethylphthalate	56.75	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	38.59	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	45.56	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	60.11	5.00	10.0	20.0	X
51-28-5	2,4-Dinitrophenol	58.51	12.5	25.0	50.0	X
121-14-2	2,4-Dinitrotoluene	53.64	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	50.43	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	60.91	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B11003-BS1 File ID: B11003L1.D

Sampled: Prepared: Analyzed: 02/15/11 19:06

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	40.54	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	55.73	1.25	2.50	5.00	
206-44-0	Fluoranthene	41.49	1.25	2.50	5.00	
86-73-7	Fluorene	42.20	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	50.62	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	9.705	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	8.290	1.25	2.50	5.00	
67-72-1	Hexachloroethane	8.705	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	52.08	1.25	2.50	5.00	
78-59-1	Isophorone	39.09	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	35.55	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	32.59	1.25	2.50	5.00	
95-48-7	2-Methylphenol	30.21	1.25	2.50	5.00	
65794-96-9	3+4-Methylphenol	25.97	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	67.28	5.00	10.0	20.0	X
99-09-2	3-Nitroaniline	46.20	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	47.85	5.00	10.0	20.0	
98-95-3	Nitrobenzene	38.57	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	14.74	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	45.96	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	36.70	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	41.98	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	51.80	5.00	10.0	20.0	
85-01-8	Phenanthrene	48.00	1.25	2.50	5.00	
108-95-2	Phenol	14.13	1.25	2.50	5.00	
129-00-0	Pyrene	61.96	1.25	2.50	5.00	X
88-06-2	2,4,6-Trichlorophenol	47.36	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	48.18	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	40.62	81.2	50 - 110	
2-Fluorophenol	100.0	37.69	37.7	20 - 110	
Nitrobenzene-d5	50.00	40.90	81.8	40 - 110	
Phenol-d6	100.0	23.04	23.0	10 - 110	
Terphenyl-d14	50.00	52.43	105	50 - 135	
2,4,6-Tribromophenol	100.0	98.01	98.0	40 - 125	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B11003-BSD1 File ID: B11003L2.D

Sampled: Prepared: Analyzed: 02/15/11 19:34

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine	46.37	1.25	2.50	5.00	
83-32-9	Acenaphthene	38.67	1.25	2.50	5.00	
208-96-8	Acenaphthylene	39.83	1.25	2.50	5.00	
98-86-2	Acetophenone	37.69	1.25	2.50	5.00	
120-12-7	Anthracene	46.27	1.25	2.50	5.00	
1912-24-9	Atrazine	54.38	1.25	2.50	5.00	
100-52-7	Benzaldehyde	37.64	1.25	2.50	5.00	Y
92-87-5	Benzidine		12.5	25.0	50.0	Y, U
56-55-3	Benzo(a)anthracene	47.25	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	43.11	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	50.87	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	45.08	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	48.11	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	40.48	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	49.93	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	59.44	1.25	2.50	5.00	
105-60-2	Caprolactam	8.537	1.25	2.50	5.00	
86-74-8	Carbazole	54.15	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	37.80	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	34.64	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	44.25	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	35.97	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	37.72	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	34.55	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	29.04	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	46.51	1.25	2.50	5.00	
218-01-9	Chrysene	49.14	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	49.60	1.25	2.50	5.00	
132-64-9	Dibenzofuran	41.59	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	48.65	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	39.04	1.25	2.50	5.00	
84-66-2	Diethylphthalate	52.06	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	34.24	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	46.39	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	58.52	5.00	10.0	20.0	X
51-28-5	2,4-Dinitrophenol	52.03	12.5	25.0	50.0	X
121-14-2	2,4-Dinitrotoluene	51.51	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	46.86	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	55.85	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B11003-BSD1 File ID: B11003L2.D

Sampled: Prepared: Analyzed: 02/15/11 19:34

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	44.48	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	56.51	1.25	2.50	5.00	
206-44-0	Fluoranthene	44.27	1.25	2.50	5.00	
86-73-7	Fluorene	44.76	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	50.56	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	14.03	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	13.73	1.25	2.50	5.00	
67-72-1	Hexachloroethane	10.35	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	49.99	1.25	2.50	5.00	
78-59-1	Isophorone	38.12	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	37.20	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	38.15	1.25	2.50	5.00	
95-48-7	2-Methylphenol	25.61	1.25	2.50	5.00	
65794-96-9	3+4-Methylphenol	20.42	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	64.27	5.00	10.0	20.0	X
99-09-2	3-Nitroaniline	41.21	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	40.18	5.00	10.0	20.0	
98-95-3	Nitrobenzene	38.91	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	13.69	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	41.25	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	37.19	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	37.13	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	52.02	5.00	10.0	20.0	
85-01-8	Phenanthrene	46.04	1.25	2.50	5.00	
108-95-2	Phenol	12.49	1.25	2.50	5.00	
129-00-0	Pyrene	60.93	1.25	2.50	5.00	X
88-06-2	2,4,6-Trichlorophenol	40.90	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	41.12	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	38.39	76.8	50 - 110	
2-Fluorophenol	100.0	28.45	28.5	20 - 110	
Nitrobenzene-d5	50.00	40.22	80.4	40 - 110	
Phenol-d6	100.0	19.87	19.9	10 - 110	
Terphenyl-d14	50.00	54.96	110	50 - 135	
2,4,6-Tribromophenol	100.0	90.45	90.5	40 - 125	

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_002

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0034	01/28/11 14:25	01/29/11 09:30	02/11/11 13:15	13.95	7.00	02/15/11 20:03	4.28	40.00	*

Data for MODSW8015B (GRO) Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1A02805	Instrument:	GL-GCVOA2
Calibration:	1028002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1A02805-CAL1	003F0301.D	01/27/11 18:33
Cal Standard	1A02805-CAL2	004F0401.D	01/27/11 19:08
Cal Standard	1A02805-CAL3	005F0501.D	01/27/11 19:44
Cal Standard	1A02805-CAL4	006F0601.D	01/27/11 20:20
Cal Standard	1A02805-CAL5	007F0701.D	01/27/11 20:55
Cal Standard	1A02805-CAL6	008F0801.D	01/27/11 21:31
Initial Cal Check	1A02805-ICV1	009F0901.D	01/27/11 22:07

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04103	Instrument:	GL-GCVOA2
Calibration:	1028002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04103-CCV1	011F1101.D	02/02/11 15:28
Blank	1B02003-BLK1	012F1201.D	02/02/11 16:04
LCS	1B02003-BS1	013F1301.D	02/02/11 16:39
LCS Dup	1B02003-BSD1	014F1401.D	02/02/11 17:14
GW0034	1101211-01	015F1501.D	02/02/11 17:49
GW0034	1B02003-MS1	016F1601.D	02/02/11 18:24
GW0034	1B02003-MSD1	017F1701.D	02/02/11 18:59
GW0012	1102004-01	018F1801.D	02/02/11 19:34
GW0013	1102004-03	019F1901.D	02/02/11 20:09
Calibration Check	1B04103-CCV2	020F2001.D	02/02/11 20:44

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04210	Instrument:	GL-GCVOA2
Calibration:	1028002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04210-CCV1	003F0301.D	02/07/11 11:02
Calibration Check	1B04210-CCV3	026F2601.D	02/08/11 00:28
Blank	1B07004-BLK1	027F2701.D	02/08/11 01:03
LCS	1B07004-BS1	028F2801.D	02/08/11 01:39
LCS Dup	1B07004-BSD1	029F2901.D	02/08/11 02:14
GW0035	1102024-01	030F3001.D	02/08/11 02:50
GW0039	1102024-03	031F3101.D	02/08/11 03:25
GW0008	1102028-01	032F3201.D	02/08/11 04:00
Calibration Check	1B04210-CCV4	033F3301.D	02/08/11 04:36

ANALYSIS DATA SHEET

GW0034

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_002
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101211-01	File ID:	015F1501.D
Sampled:	01/28/11 14:25	Prepared:	02/02/11 08:12	Analyzed:	02/02/11 17:49
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B02003	Sequence:	1B04103	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.0899	0.0500		0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05249	105	50 - 150	

ANALYSIS DATA SHEET

GW0012

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_002
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102004-01	File ID:	018F1801.D
Sampled:	01/31/11 11:52	Prepared:	02/02/11 08:12	Analyzed:	02/02/11 19:34
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B02003	Sequence:	1B04103	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)		0.0500		0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05277	106	50 - 150	

ANALYSIS DATA SHEET

GW0013

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_002
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102004-03	File ID:	019F1901.D
Sampled:	01/31/11 14:40	Prepared:	02/02/11 08:12	Analyzed:	02/02/11 20:09
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B02003	Sequence:	1B04103	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)		0.0500		0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05224	104	50 - 150	

ANALYSIS DATA SHEET

GW0035

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_002
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102024-01	File ID:	030F3001.D
Sampled:	02/02/11 09:55	Prepared:	02/07/11 09:09	Analyzed:	02/08/11 02:50
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B07004	Sequence:	1B04210	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)		0.0500		0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05441	109	50 - 150	

ANALYSIS DATA SHEET

GW0039

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_002
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102024-03	File ID:	031F3101.D
Sampled:	02/02/11 12:05	Prepared:	02/07/11 09:09	Analyzed:	02/08/11 03:25
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B07004	Sequence:	1B04210	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)		0.0500		0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05453	109	50 - 150	

ANALYSIS DATA SHEET

GW0008

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_002
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102028-01	File ID:	032F3201.D
Sampled:	02/03/11 12:42	Prepared:	02/07/11 09:09	Analyzed:	02/08/11 04:00
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B07004	Sequence:	1B04210	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)		0.0500		0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05560	111	50 - 150	

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B02003	Laboratory ID:	1B02003-BS1
Preparation:	8015GRO	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.4838	96.8	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.4654	93.1	3.87	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B07004	Laboratory ID:	1B07004-BS1
Preparation:	8015GRO	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5683	114	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5766	115	1.44	50	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B

GW0034

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_002

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B02003

% Solids:

Source Sample Name: **1101211-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.08994	0.6165	105		50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5734	96.7	7.25		50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B02003 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0034	1101211-01	02/02/11 08:12	5.00	5.00
GW0012	1102004-01	02/02/11 08:12	5.00	5.00
GW0013	1102004-03	02/02/11 08:12	5.00	5.00
Blank	1B02003-BLK1	02/02/11 08:12	5.00	5.00
LCS	1B02003-BS1	02/02/11 08:12	5.00	5.00
LCS Dup	1B02003-BSD1	02/02/11 08:12	5.00	5.00
GW0034	1B02003-MS1	02/02/11 08:12	5.00	5.00
GW0034	1B02003-MSD1	02/02/11 08:12	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B07004 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0035	1102024-01	02/07/11 09:09	5.00	5.00
GW0039	1102024-03	02/07/11 09:09	5.00	5.00
GW0008	1102028-01	02/07/11 09:09	5.00	5.00
Blank	1B07004-BLK1	02/07/11 09:09	5.00	5.00
LCS	1B07004-BS1	02/07/11 09:09	5.00	5.00
LCS Dup	1B07004-BSD1	02/07/11 09:09	5.00	5.00

INITIAL CALIBRATION STANDARDS

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1A02805	Instrument:	GL-GCVOA2
Calibration:	1028002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11A0780	GRO Cal 0.1ppm	1A02805-CAL1	003F0301.D	01/27/11 18:33
11A0781	GRO Cal 0.2ppm	1A02805-CAL2	004F0401.D	01/27/11 19:08
11A0783	GRO Cal 0.5ppm	1A02805-CAL3	005F0501.D	01/27/11 19:44
11A0789	GRO Cal 1.0ppm	1A02805-CAL4	006F0601.D	01/27/11 20:20
11A0790	GRO Cal 2.0ppm	1A02805-CAL5	007F0701.D	01/27/11 20:55
11A0791	GRO Cal 5.0ppm	1A02805-CAL6	008F0801.D	01/27/11 21:31

INITIAL CALIBRATION DATA

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1028002	Instrument:	GL-GCVOA2
Matrix:	Water	Calibration Date:	1/27/2011 6:33:04PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Gasoline Range Organics (C6-C10	5	2516042	2	2730054	1	2493619	0.5	2526354	0.2	3408960	0.1	3753180
Bromofluorobenzene	0.5	1483418	0.2	1700855	0.1	1733590	0.05	1558880	0.02	1723950	0.01	1745400

INITIAL CALIBRATION DATA (Continued)

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1028002	Instrument:	GL-GCVOA2
Matrix:	Water	Calibration Date:	1/27/2011 6:33:04PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Gasoline Range Organics (C6-C10)	2904701	18.65348	7.287	1.259059E-02			20	
Bromofluorobenzene	1657682	6.599566	19.57967	2.614775E-02			20	

INITIAL CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	009F0901.D	Calibration Date:	01/27/11 18:33
Sequence:	1A02805	Injection Date:	01/27/11
Lab Sample ID:	1A02805-ICV1	Injection Time:	22:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5128	2904701	2979066		2.6	20
Bromofluorobenzene	A	0.05000	0.05836	1657682	1934860		16.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	011F1101.D	Calibration Date:	01/27/11 18:33
Sequence:	1B04103	Injection Date:	02/02/11
Lab Sample ID:	1B04103-CCV1	Injection Time:	15:28

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.4076	2904701	2367796		-18.5	20
Bromofluorobenzene	A	0.05000	0.05433	1657682	1801160		8.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	020F2001.D	Calibration Date:	01/27/11 18:33
Sequence:	1B04103	Injection Date:	02/02/11
Lab Sample ID:	1B04103-CCV2	Injection Time:	20:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.4000	2904701	2324006		-20.0	20
Bromofluorobenzene	A	0.05000	0.05578	1657682	1849480		11.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	003F0301.D	Calibration Date:	01/27/11 18:33
Sequence:	1B04210	Injection Date:	02/07/11
Lab Sample ID:	1B04210-CCV1	Injection Time:	11:02

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5385	2904701	3128440		7.7	20
Bromofluorobenzene	A	0.05000	0.05736	1657682	1901780		14.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	026F2601.D	Calibration Date:	01/27/11 18:33
Sequence:	1B04210	Injection Date:	02/08/11
Lab Sample ID:	1B04210-CCV3	Injection Time:	00:28

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5416	2904701	3146506		8.3	20
Bromofluorobenzene	A	0.05000	0.05690	1657682	1886480		13.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	033F3301.D	Calibration Date:	01/27/11 18:33
Sequence:	1B04210	Injection Date:	02/08/11
Lab Sample ID:	1B04210-CCV4	Injection Time:	04:36

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5422	2904701	3149904		8.4	20
Bromofluorobenzene	A	0.05000	0.05500	1657682	1823300		10.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04103
Instrument: GL-GCVOA2
Calibration: 1028002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04103-CCV1) ug/mL				Lab File ID: 011F1101.D		Analyzed: 02/02/11 15:28		
Bromofluorobenzene	0.05000	109	80 - 120	19.553	19.553	0.0000	+/-0.210	
Blank (1B02003-BLK1) mg/L				Lab File ID: 012F1201.D		Analyzed: 02/02/11 16:04		
Bromofluorobenzene	0.05000	105	50 - 150	19.553	19.553	0.0000	+/-0.210	
LCS (1B02003-BS1) mg/L				Lab File ID: 013F1301.D		Analyzed: 02/02/11 16:39		
Bromofluorobenzene	0.05000	110	50 - 150	19.553	19.553	0.0000	+/-0.210	
LCS Dup (1B02003-BSD1) mg/L				Lab File ID: 014F1401.D		Analyzed: 02/02/11 17:14		
Bromofluorobenzene	0.05000	110	50 - 150	19.56	19.553	0.0070	+/-0.210	
GW0034 (1101211-01) mg/L				Lab File ID: 015F1501.D		Analyzed: 02/02/11 17:49		
Bromofluorobenzene	0.05000	105	50 - 150	19.56	19.553	0.0070	+/-0.210	
Matrix Spike (1B02003-MS1) mg/L				Lab File ID: 016F1601.D		Analyzed: 02/02/11 18:24		
Bromofluorobenzene	0.05000	111	50 - 150	19.563	19.553	0.0100	+/-0.210	
Matrix Spike Dup (1B02003-MSD1) mg/L				Lab File ID: 017F1701.D		Analyzed: 02/02/11 18:59		
Bromofluorobenzene	0.05000	109	50 - 150	19.563	19.553	0.0100	+/-0.210	
GW0012 (1102004-01) mg/L				Lab File ID: 018F1801.D		Analyzed: 02/02/11 19:34		
Bromofluorobenzene	0.05000	106	50 - 150	19.566	19.553	0.0130	+/-0.210	
GW0013 (1102004-03) mg/L				Lab File ID: 019F1901.D		Analyzed: 02/02/11 20:09		
Bromofluorobenzene	0.05000	104	50 - 150	19.566	19.553	0.0130	+/-0.210	
Calibration Check (1B04103-CCV2) ug/mL				Lab File ID: 020F2001.D		Analyzed: 02/02/11 20:44		
Bromofluorobenzene	0.05000	112	80 - 120	19.566	19.553	0.0130	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04210
Instrument: GL-GCVOA2
Calibration: 1028002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04210-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 02/07/11 11:02		
Bromofluorobenzene	0.05000	115	80 - 120	19.58	19.58	0.0000	+/-0.210	
Calibration Check (1B04210-CCV3) ug/mL				Lab File ID: 026F2601.D		Analyzed: 02/08/11 00:28		
Bromofluorobenzene	0.05000	114	80 - 120	19.56	19.58	-0.0200	+/-0.210	
Blank (1B07004-BLK1) mg/L				Lab File ID: 027F2701.D		Analyzed: 02/08/11 01:03		
Bromofluorobenzene	0.05000	111	50 - 150	19.56	19.58	-0.0200	+/-0.210	
LCS (1B07004-BS1) mg/L				Lab File ID: 028F2801.D		Analyzed: 02/08/11 01:39		
Bromofluorobenzene	0.05000	113	50 - 150	19.56	19.58	-0.0200	+/-0.210	
LCS Dup (1B07004-BSD1) mg/L				Lab File ID: 029F2901.D		Analyzed: 02/08/11 02:14		
Bromofluorobenzene	0.05000	113	50 - 150	19.56	19.58	-0.0200	+/-0.210	
GW0035 (1102024-01) mg/L				Lab File ID: 030F3001.D		Analyzed: 02/08/11 02:50		
Bromofluorobenzene	0.05000	109	50 - 150	19.56	19.58	-0.0200	+/-0.210	
GW0039 (1102024-03) mg/L				Lab File ID: 031F3101.D		Analyzed: 02/08/11 03:25		
Bromofluorobenzene	0.05000	109	50 - 150	19.556	19.58	-0.0240	+/-0.210	
GW0008 (1102028-01) mg/L				Lab File ID: 032F3201.D		Analyzed: 02/08/11 04:00		
Bromofluorobenzene	0.05000	111	50 - 150	19.56	19.58	-0.0200	+/-0.210	
Calibration Check (1B04210-CCV4) ug/mL				Lab File ID: 033F3301.D		Analyzed: 02/08/11 04:36		
Bromofluorobenzene	0.05000	110	80 - 120	19.556	19.58	-0.0240	+/-0.210	

HOLDING TIME SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_002

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0034	01/28/11 14:25	01/29/11 09:30	02/02/11 08:12	N/A	14.00	02/02/11 17:49	5.14	14.00	
GW0012	01/31/11 11:52	02/01/11 08:45	02/02/11 08:12	N/A	14.00	02/02/11 19:34	2.32	14.00	
GW0013	01/31/11 14:40	02/01/11 08:45	02/02/11 08:12	N/A	14.00	02/02/11 20:09	2.23	14.00	
GW0035	02/02/11 09:55	02/03/11 08:45	02/07/11 09:09	N/A	14.00	02/08/11 02:50	5.70	14.00	
GW0039	02/02/11 12:05	02/03/11 08:45	02/07/11 09:09	N/A	14.00	02/08/11 03:25	5.64	14.00	
GW0008	02/03/11 12:42	02/04/11 08:45	02/07/11 09:09	N/A	14.00	02/08/11 04:00	4.64	14.00	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B02003-BLK1 File ID: 012F1201.D

Sampled: Prepared: Analyzed: 02/02/11 16:04

Solids: Preparation: 8015GRO Dilution:

Batch: 1B02003 Sequence: 1B04103 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05245	105	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B02003-BS1 File ID: 013F1301.D

Sampled: Prepared: Analyzed: 02/02/11 16:39

Solids: Preparation: 8015GRO Dilution:

Batch: 1B02003 Sequence: 1B04103 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.4838	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05503	110	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B02003-BSD1
File ID: 014F1401.D
Sampled:
Prepared:
Analyzed: 02/02/11 17:14
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1B02003
Sequence: 1B04103
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.4654	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05510	110	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B02003-MS1 File ID: 016F1601.D

Sampled: Prepared: Analyzed: 02/02/11 18:24

Solids: Preparation: 8015GRO Dilution:

Batch: 1B02003 Sequence: 1B04103 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.6165	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05537	111	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B02003-MSD1 File ID: 017F1701.D

Sampled: Prepared: Analyzed: 02/02/11 18:59

Solids: Preparation: 8015GRO Dilution:

Batch: 1B02003 Sequence: 1B04103 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.5734	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05467	109	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B07004-BLK1 File ID: 027F2701.D

Sampled: Prepared: Analyzed: 02/08/11 01:03

Solids: Preparation: 8015GRO Dilution:

Batch: 1B07004 Sequence: 1B04210 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05528	111	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B07004-BS1
File ID: 028F2801.D
Sampled:
Prepared:
Analyzed: 02/08/11 01:39
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1B07004
Sequence: 1B04210
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.5683	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05649	113	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B07004-BSD1
File ID: 029F2901.D
Sampled:
Prepared:
Analyzed: 02/08/11 02:14
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1B07004
Sequence: 1B04210
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Gasoline Range Organics (C6-C10)	0.5766	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05659	113	50 - 150	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_002

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** GL-GCVOA2

Analyte	MDL	MRL	Units	Method
Gasoline Range Organics (C6-C10)	0.0500	0.150	mg/L	SW8015B

Data for MODSW8015B (DRO) Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0L35504	Instrument:	GL-GCFID2
Calibration:	0355001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0L35504-CAL6	004F0401.D	12/18/10 17:50
Cal Standard	0L35504-CAL5	005F0501.D	12/18/10 18:39
Cal Standard	0L35504-CAL4	006F0601.D	12/18/10 19:12
Cal Standard	0L35504-CAL3	007F0701.D	12/18/10 19:46
Cal Standard	0L35504-CAL2	008F0801.D	12/18/10 20:19
Cal Standard	0L35504-CAL1	009F0901.D	12/18/10 20:53
Initial Cal Check	0L35504-ICV1	010F1001.D	12/18/10 21:26

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03804	Instrument:	GL-GCFID
Calibration:	1038002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B03804-CAL6	003B0301.D	02/04/11 11:28
Cal Standard	1B03804-CAL5	004B0401.D	02/04/11 12:02
Cal Standard	1B03804-CAL4	005B0501.D	02/04/11 12:35
Cal Standard	1B03804-CAL3	006B0601.D	02/04/11 13:09
Cal Standard	1B03804-CAL2	007B0701.D	02/04/11 13:42
Cal Standard	1B03804-CAL1	008B0801.D	02/04/11 14:16
Initial Cal Check	1B03804-ICV1	009B0901.D	02/04/11 14:50

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03812	Instrument:	GL-GCFID
Calibration:	1038002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B03812-CCV1	010B1001.D	02/04/11 15:23
Blank	1A31025-BLK1	011B1101.D	02/04/11 16:11
LCS	1A31025-BS1	012B1201.D	02/04/11 16:44
LCS Dup	1A31025-BSD1	013B1301.D	02/04/11 17:18
GW0034	1101211-01	014B1401.D	02/04/11 17:52
Calibration Check	1B03812-CCV2	022B2201.D	02/04/11 22:19

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04023	Instrument:	GL-GCFID2
Calibration:	0355001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04023-CCV1	010F1001.D	02/07/11 20:37
Blank	1B04017-BLK1	011F1101.D	02/07/11 21:10
LCS	1B04017-BS1	012F1201.D	02/07/11 21:43
LCS Dup	1B04017-BSD1	013F1301.D	02/07/11 22:17
GW0012	1102004-01RE1	014F1401.D	02/07/11 22:50
GW0013	1102004-03RE1	015F1501.D	02/07/11 23:23
GW0035	1102024-01	016F1601.D	02/07/11 23:57
GW0039	1102024-03	017F1701.D	02/08/11 00:30
GW0008	1102028-01	018F1801.D	02/08/11 01:04
Calibration Check	1B04023-CCV2	028F2801.D	02/08/11 06:39

ANALYSIS DATA SHEET

GW0034

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_002
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101211-01	File ID:	014B1401.D
Sampled:	01/28/11 14:25	Prepared:	02/01/11 12:30	Analyzed:	02/04/11 17:52
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1A31025	Sequence:	1B03812	Calibration:	1038002
Instrument:	GL-GCFID				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.0980	0.0980	0.0980	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01375	70.1	30 - 140	

ANALYSIS DATA SHEET

GW0012

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_002
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102004-01RE1	File ID:	014F1401.D
Sampled:	01/31/11 11:52	Prepared:	02/07/11 11:32	Analyzed:	02/07/11 22:50
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B04017	Sequence:	1B04023	Calibration:	0355001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.0980	0.0980	0.0980	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01782	90.9	30 - 140	

ANALYSIS DATA SHEET

GW0013

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_002
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102004-03RE1	File ID:	015F1501.D
Sampled:	01/31/11 14:40	Prepared:	02/07/11 11:32	Analyzed:	02/07/11 23:23
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B04017	Sequence:	1B04023	Calibration:	0355001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.0980	0.0980	0.0980	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01719	87.7	30 - 140	

ANALYSIS DATA SHEET

GW0035

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_002
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102024-01	File ID:	016F1601.D
Sampled:	02/02/11 09:55	Prepared:	02/07/11 11:32	Analyzed:	02/07/11 23:57
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B04017	Sequence:	1B04023	Calibration:	0355001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.111	0.111	0.111	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02222	0.01964	88.4	30 - 140	

ANALYSIS DATA SHEET

GW0039

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_002
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102024-03	File ID:	017F1701.D
Sampled:	02/02/11 12:05	Prepared:	02/07/11 11:32	Analyzed:	02/08/11 00:30
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B04017	Sequence:	1B04023	Calibration:	0355001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.0962	0.0962	0.0962	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01725	89.7	30 - 140	

ANALYSIS DATA SHEET

GW0008

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_002
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102028-01	File ID:	018F1801.D
Sampled:	02/03/11 12:42	Prepared:	02/07/11 11:32	Analyzed:	02/08/11 01:04
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B04017	Sequence:	1B04023	Calibration:	0355001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.0980	0.0980	0.0980	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01961	0.01849	94.3	30 - 140	

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A31025	Laboratory ID:	1A31025-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.6551	65.5	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.5698	57.0	13.9	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B04017	Laboratory ID:	1B04017-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.6724	67.2	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.7209	72.1	6.96	50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1A31025 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0034	1101211-01	02/01/11 12:30	1,020.00	1.00
Blank	1A31025-BLK1	02/01/11 12:30	1,000.00	1.00
LCS	1A31025-BS1	02/01/11 12:30	1,000.00	1.00
LCS Dup	1A31025-BSD1	02/01/11 12:30	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B04017 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0012	1102004-01RE1	02/07/11 11:32	1,020.00	1.00
GW0013	1102004-03RE1	02/07/11 11:32	1,020.00	1.00
GW0035	1102024-01	02/07/11 11:32	900.00	1.00
GW0039	1102024-03	02/07/11 11:32	1,040.00	1.00
GW0008	1102028-01	02/07/11 11:32	1,020.00	1.00
Blank	1B04017-BLK1	02/07/11 11:32	1,000.00	1.00
LCS	1B04017-BS1	02/07/11 11:32	1,000.00	1.00
LCS Dup	1B04017-BSD1	02/07/11 11:32	1,000.00	1.00

INITIAL CALIBRATION STANDARDS

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0L35504	Instrument:	GL-GCFID2
Calibration:	0355001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10K0188	DRO ICAL6@100ppm	0L35504-CAL6	004F0401.D	12/18/10 17:50
10K0189	DRO ICAL5@250ppm	0L35504-CAL5	005F0501.D	12/18/10 18:39
10K0190	DRO ICAL4@500ppm	0L35504-CAL4	006F0601.D	12/18/10 19:12
10K0192	DRO ICAL3@1000ppm	0L35504-CAL3	007F0701.D	12/18/10 19:46
10K0193	DRO ICAL2@2500ppm	0L35504-CAL2	008F0801.D	12/18/10 20:19
10K0194	DRO ICAL1@5000ppm	0L35504-CAL1	009F0901.D	12/18/10 20:53

INITIAL CALIBRATION STANDARDS

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03804	Instrument:	GL-GCFID
Calibration:	1038002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10K0188	DRO ICAL6@100ppm	1B03804-CAL6	003B0301.D	02/04/11 11:28
10K0189	DRO ICAL5@250ppm	1B03804-CAL5	004B0401.D	02/04/11 12:02
10K0190	DRO ICAL4@500ppm	1B03804-CAL4	005B0501.D	02/04/11 12:35
10K0192	DRO ICAL3@1000ppm	1B03804-CAL3	006B0601.D	02/04/11 13:09
10K0193	DRO ICAL2@2500ppm	1B03804-CAL2	007B0701.D	02/04/11 13:42
10K0194	DRO ICAL1@5000ppm	1B03804-CAL1	008B0801.D	02/04/11 14:16

INITIAL CALIBRATION DATA

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0355001	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Date:	12/18/2010 5:50:23PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Diesel Range Organics (C10-C28)	100	2002.42	250	2054.808	500	2018.564	1000	2618.724	2500	2162.952	5000	1783.595
o-Terphenyl	5	2224.2	12.5	2325.28	25	2325.08	50	2438.14	125	2234.048	250	2209.376

INITIAL CALIBRATION DATA (Continued)

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0355001	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Date:	12/18/2010 5:50:23PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	2106.844	13.27416	4.747	2.033446E-02			20	
o-Terphenyl	2292.687	3.819306	8.5235	0.1052077			20	

INITIAL CALIBRATION DATA

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038002	Instrument:	GL-GCFID
Matrix:	Water	Calibration Date:	2/4/2011 11:28:54AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Diesel Range Organics (C10-C28)	100	1351.87	250	1499.38	500	1574.304	1000	1676.537	2500	1883.202	5000	1703.416
o-Terphenyl	5	1984.4	12.5	1928.48	25	1883.4	50	1943.72	125	1932.104	250	1921.648

INITIAL CALIBRATION DATA (Continued)

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038002	Instrument:	GL-GCFID
Matrix:	Water	Calibration Date:	2/4/2011 11:28:54AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	1614.785	11.34472	6.25	0			20	
o-Terphenyl	1932.292	1.695087	11.31367	0.0744468			20	

INITIAL CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	0355001
Lab File ID:	010F1001.D	Calibration Date:	12/18/10 17:50
Sequence:	0L35504	Injection Date:	12/18/10
Lab Sample ID:	0L35504-ICV1	Injection Time:	21:26

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	984.4	2106.844	2074.064		-1.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	009B0901.D	Calibration Date:	02/04/11 11:28
Sequence:	1B03804	Injection Date:	02/04/11
Lab Sample ID:	1B03804-ICV1	Injection Time:	14:50

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1178	1614.785	1901.657		17.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	010B1001.D	Calibration Date:	02/04/11 11:28
Sequence:	1B03812	Injection Date:	02/04/11
Lab Sample ID:	1B03812-CCV1	Injection Time:	15:23

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	980.8	1614.785	1583.714		-1.9	20
o-Terphenyl	A	50.00	48.59	1932.292	1877.68		-2.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	022B2201.D	Calibration Date:	02/04/11 11:28
Sequence:	1B03812	Injection Date:	02/04/11
Lab Sample ID:	1B03812-CCV2	Injection Time:	22:19

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1094	1614.785	1767.113		9.4	20
o-Terphenyl	A	50.00	55.80	1932.292	2156.38		11.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	0355001
Lab File ID:	010F1001.D	Calibration Date:	12/18/10 17:50
Sequence:	1B04023	Injection Date:	02/07/11
Lab Sample ID:	1B04023-CCV1	Injection Time:	20:37

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	896.6	2106.844	1888.899		-10.3	20
o-Terphenyl	A	50.00	51.09	2292.687	2342.56		2.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	0355001
Lab File ID:	028F2801.D	Calibration Date:	12/18/10 17:50
Sequence:	1B04023	Injection Date:	02/08/11
Lab Sample ID:	1B04023-CCV2	Injection Time:	06:39

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1192	2106.844	2511.18		19.2	20
o-Terphenyl	A	50.00	54.58	2292.687	2502.5		9.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B03812
Instrument: GL-GCFID
Calibration: 1038002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B03812-CCV1) mg/L				Lab File ID: 010B1001.D		Analyzed: 02/04/11 15:23		
o-Terphenyl	50.00	97.2	80 - 120	11.313	11.313	0.0000	+/-0.050	
Blank (1A31025-BLK1) mg/L				Lab File ID: 011B1101.D		Analyzed: 02/04/11 16:11		
o-Terphenyl	0.02000	85.1	30 - 140	11.336	11.313	0.0230	+/-0.050	
LCS (1A31025-BS1) mg/L				Lab File ID: 012B1201.D		Analyzed: 02/04/11 16:44		
o-Terphenyl	0.02000	78.4	30 - 140	11.313	11.313	0.0000	+/-0.050	
LCS Dup (1A31025-BSD1) mg/L				Lab File ID: 013B1301.D		Analyzed: 02/04/11 17:18		
o-Terphenyl	0.02000	73.0	30 - 140	11.306	11.313	-0.0070	+/-0.050	
GW0034 (1101211-01) mg/L				Lab File ID: 014B1401.D		Analyzed: 02/04/11 17:52		
o-Terphenyl	0.01961	70.1	30 - 140	11.296	11.313	-0.0170	+/-0.050	
Calibration Check (1B03812-CCV2) mg/L				Lab File ID: 022B2201.D		Analyzed: 02/04/11 22:19		
o-Terphenyl	50.00	112	80 - 120	11.283	11.313	-0.0300	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04023
Instrument: GL-GCFID2
Calibration: 0355001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04023-CCV1) mg/L				Lab File ID: 010F1001.D		Analyzed: 02/07/11 20:37		
o-Terphenyl	50.00	102	80 - 120	8.33	8.33	0.0000	+/-0.050	
Blank (1B04017-BLK1) mg/L				Lab File ID: 011F1101.D		Analyzed: 02/07/11 21:10		
o-Terphenyl	0.02000	83.8	30 - 140	8.343	8.33	0.0130	+/-0.050	
LCS (1B04017-BS1) mg/L				Lab File ID: 012F1201.D		Analyzed: 02/07/11 21:43		
o-Terphenyl	0.02000	95.6	30 - 140	8.326	8.33	-0.0040	+/-0.050	
LCS Dup (1B04017-BSD1) mg/L				Lab File ID: 013F1301.D		Analyzed: 02/07/11 22:17		
o-Terphenyl	0.02000	104	30 - 140	8.326	8.33	-0.0040	+/-0.050	
GW0012 (1102004-01RE1) mg/L				Lab File ID: 014F1401.D		Analyzed: 02/07/11 22:50		
o-Terphenyl	0.01961	90.9	30 - 140	8.333	8.33	0.0030	+/-0.050	
GW0013 (1102004-03RE1) mg/L				Lab File ID: 015F1501.D		Analyzed: 02/07/11 23:23		
o-Terphenyl	0.01961	87.7	30 - 140	8.333	8.33	0.0030	+/-0.050	
GW0035 (1102024-01) mg/L				Lab File ID: 016F1601.D		Analyzed: 02/07/11 23:57		
o-Terphenyl	0.02222	88.4	30 - 140	8.333	8.33	0.0030	+/-0.050	
GW0039 (1102024-03) mg/L				Lab File ID: 017F1701.D		Analyzed: 02/08/11 00:30		
o-Terphenyl	0.01923	89.7	30 - 140	8.333	8.33	0.0030	+/-0.050	
GW0008 (1102028-01) mg/L				Lab File ID: 018F1801.D		Analyzed: 02/08/11 01:04		
o-Terphenyl	0.01961	94.3	30 - 140	8.33	8.33	0.0000	+/-0.050	
Calibration Check (1B04023-CCV2) mg/L				Lab File ID: 028F2801.D		Analyzed: 02/08/11 06:39		
o-Terphenyl	50.00	109	80 - 120	8.33	8.33	0.0000	+/-0.050	

HOLDING TIME SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_002

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0034	01/28/11 14:25	01/29/11 09:30	02/01/11 12:30	3.92	7.00	02/04/11 17:52	3.22	40.00	
GW0012	01/31/11 11:52	02/01/11 08:45	02/07/11 11:32	6.99	7.00	02/07/11 22:50	0.47	40.00	
GW0013	01/31/11 14:40	02/01/11 08:45	02/07/11 11:32	6.87	7.00	02/07/11 23:23	0.49	40.00	
GW0035	02/02/11 09:55	02/03/11 08:45	02/07/11 11:32	5.07	7.00	02/07/11 23:57	0.52	40.00	
GW0039	02/02/11 12:05	02/03/11 08:45	02/07/11 11:32	4.98	7.00	02/08/11 00:30	0.54	40.00	
GW0008	02/03/11 12:42	02/04/11 08:45	02/07/11 11:32	3.95	7.00	02/08/11 01:04	0.56	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1A31025-BLK1 File ID: 011B1101.D

Sampled: Prepared: Analyzed: 02/04/11 16:11

Solids: Preparation: EXT_3510 Dilution:

Batch: 1A31025 Sequence: 1B03812 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.100	0.100	0.100	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01702	85.1	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1A31025-BS1
File ID: 012B1201.D
Sampled:
Prepared:
Analyzed: 02/04/11 16:44
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1A31025
Sequence: 1B03812
Calibration: 1038002
Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)	0.6551	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01568	78.4	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1A31025-BSD1
File ID: 013B1301.D
Sampled:
Prepared:
Analyzed: 02/04/11 17:18
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1A31025
Sequence: 1B03812
Calibration: 1038002
Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)	0.5698	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01461	73.0	30 - 140	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B04017-BLK1 File ID: 011F1101.D

Sampled: Prepared: Analyzed: 02/07/11 21:10

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B04017 Sequence: 1B04023 Calibration: 0355001 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)		0.100	0.100	0.100	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01677	83.8	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B04017-BS1
File ID: 012F1201.D
Sampled:
Prepared:
Analyzed: 02/07/11 21:43
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1B04017
Sequence: 1B04023
Calibration: 0355001
Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)	0.6724	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01912	95.6	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B04017-BSD1
File ID: 013F1301.D
Sampled:
Prepared:
Analyzed: 02/07/11 22:17
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1B04017
Sequence: 1B04023
Calibration: 0355001
Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
	Diesel Range Organics (C10-C28)	0.7209	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.02070	104	30 - 140	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_002

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** GL-GCFID

Analyte	MDL	MRL	Units	Method
Diesel Range Organics (C10-C28)	0.100	0.100	mg/L	SW8015B

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_002

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** GL-GCFID2

Analyte	MDL	MRL	Units	Method
Diesel Range Organics (C10-C28)	0.100	0.100	mg/L	SW8015B

Data for SW8011 Forms

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 0L34409
Instrument: GL-ECD2
Calibration: 0344003

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0L34409-CAL1	002R0101.D	12/09/10 14:14
Cal Standard	0L34409-CAL1	002F0101.D	12/09/10 14:14
Cal Standard	0L34409-CAL2	003F0101.D	12/09/10 14:35
Cal Standard	0L34409-CAL2	003R0101.D	12/09/10 14:35
Cal Standard	0L34409-CAL3	004F0101.D	12/09/10 14:56
Cal Standard	0L34409-CAL3	004R0101.D	12/09/10 14:56
Cal Standard	0L34409-CAL4	005R0101.D	12/09/10 15:17
Cal Standard	0L34409-CAL4	005F0101.D	12/09/10 15:17
Cal Standard	0L34409-CAL5	006R0101.D	12/09/10 15:38
Cal Standard	0L34409-CAL5	006F0101.D	12/09/10 15:38
Cal Standard	0L34409-CAL6	007F0101.D	12/09/10 16:00
Cal Standard	0L34409-CAL6	007R0101.D	12/09/10 16:00
Cal Standard	0L34409-CAL7	008F0101.D	12/09/10 16:21
Cal Standard	0L34409-CAL7	008R0101.D	12/09/10 16:21
Cal Standard	0L34409-CAL8	009F0101.D	12/09/10 16:42
Cal Standard	0L34409-CAL8	009R0101.D	12/09/10 16:42
Initial Cal Check	0L34409-ICV1	010R0101.D	12/09/10 17:04
Initial Cal Check	0L34409-ICV1	010F0101.D	12/09/10 17:04

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04113	Instrument:	GL-ECD2
Calibration:	0344003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04113-CCV1	002R0101.D	02/07/11 14:16
Calibration Check	1B04113-CCV1	002F0101.D	02/07/11 14:16
LCS	1B07020-BS1	004R0101.D	02/07/11 15:08
LCS	1B07020-BS1	004F0101.D	02/07/11 15:08
LCS Dup	1B07020-BSD1	005F0101.D	02/07/11 15:24
LCS Dup	1B07020-BSD1	005R0101.D	02/07/11 15:24
Blank	1B07020-BLK1	006R0101.D	02/07/11 15:46
GW0034	1101211-01	013R0101.D	02/07/11 18:14
GW0012	1102004-01	014R0101.D	02/07/11 18:35
GW0013	1102004-03	015R0101.D	02/07/11 18:57
GW0035	1102024-01	016F0101.D	02/07/11 19:18
Calibration Check	1B04113-CCV2	017R0101.D	02/07/11 19:39
Calibration Check	1B04113-CCV2	017F0101.D	02/07/11 19:39
GW0039	1102024-03	018R0101.D	02/07/11 20:00
GW0008	1102028-01	019R0101.D	02/07/11 20:21
Calibration Check	1B04113-CCV3	020R0101.D	02/07/11 20:42
Calibration Check	1B04113-CCV3	020F0101.D	02/07/11 20:42

ANALYSIS DATA SHEET

GW0034

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_002
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1101211-01	File ID:	013R0101.D
Sampled:	01/28/11 14:25	Prepared:	02/07/11 14:59	Analyzed:	02/07/11 18:14
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B07020	Sequence:	1B04113	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00972	0.0194	0.0292	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0012

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_002
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102004-01	File ID:	014R0101.D
Sampled:	01/31/11 11:52	Prepared:	02/07/11 14:59	Analyzed:	02/07/11 18:35
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B07020	Sequence:	1B04113	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00988	0.0198	0.0296	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0013

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_002
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102004-03	File ID:	015R0101.D
Sampled:	01/31/11 14:40	Prepared:	02/07/11 14:59	Analyzed:	02/07/11 18:57
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B07020	Sequence:	1B04113	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00970	0.0194	0.0291	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0035

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_002
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102024-01	File ID:	016F0101.D
Sampled:	02/02/11 09:55	Prepared:	02/07/11 14:59	Analyzed:	02/07/11 19:18
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B07020	Sequence:	1B04113	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00965	0.0193	0.0289	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0039

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_002
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102024-03	File ID:	018R0101.D
Sampled:	02/02/11 12:05	Prepared:	02/07/11 14:59	Analyzed:	02/07/11 20:00
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B07020	Sequence:	1B04113	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00991	0.0198	0.0297	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0008

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_002
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102028-01	File ID:	019R0101.D
Sampled:	02/03/11 12:42	Prepared:	02/07/11 14:59	Analyzed:	02/07/11 20:21
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B07020	Sequence:	1B04113	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00970	0.0194	0.0291	U

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B07020	Laboratory ID:	1B07020-BS1
Preparation:	EDB	Initial/Final:	35 mL / 35 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.5440	109	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5412	108	70 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.5078	102	6.88	20	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5629	113	3.93	20	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B07020 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0034	1101211-01	02/07/11 14:59	36.02	35.00
GW0012	1102004-01	02/07/11 14:59	35.43	35.00
GW0013	1102004-03	02/07/11 14:59	36.09	35.00
GW0035	1102024-01	02/07/11 14:59	36.27	35.00
GW0039	1102024-03	02/07/11 14:59	35.32	35.00
GW0008	1102028-01	02/07/11 14:59	36.08	35.00
Blank	1B07020-BLK1	02/07/11 14:59	35.00	35.00
LCS	1B07020-BS1	02/07/11 14:59	35.00	35.00
LCS Dup	1B07020-BSD1	02/07/11 14:59	35.00	35.00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B07020-BLK1 File ID: 006R0101.D

Sampled: Prepared: 02/07/11 14:59 Analyzed: 02/07/11 15:46

Solids: Preparation: EDB Dilution:

Batch: 1B07020 Sequence: 1B04113 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.0100	0.0200	0.0300	U

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0L34409	Instrument:	GL-ECD2
Calibration:	0344003		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10L0344	EDB ICAL 1 (0.03ppb)	0L34409-CAL1	002R0101.D	12/09/10 14:14
10L0344	EDB ICAL 1 (0.03ppb)	0L34409-CAL1	002F0101.D	12/09/10 14:14
10L0345	EDB ICAL 2 (0.05ppb)	0L34409-CAL2	003F0101.D	12/09/10 14:35
10L0345	EDB ICAL 2 (0.05ppb)	0L34409-CAL2	003R0101.D	12/09/10 14:35
10L0346	EDB ICAL 3 (0.10ppb)	0L34409-CAL3	004F0101.D	12/09/10 14:56
10L0346	EDB ICAL 3 (0.10ppb)	0L34409-CAL3	004R0101.D	12/09/10 14:56
10L0347	EDB ICAL 4 (0.15ppb)	0L34409-CAL4	005R0101.D	12/09/10 15:17
10L0347	EDB ICAL 4 (0.15ppb)	0L34409-CAL4	005F0101.D	12/09/10 15:17
10L0348	EDB ICAL 5 (0.20ppb)	0L34409-CAL5	006R0101.D	12/09/10 15:38
10L0348	EDB ICAL 5 (0.20ppb)	0L34409-CAL5	006F0101.D	12/09/10 15:38
10L0349	EDB ICAL 6 (0.40ppb)	0L34409-CAL6	007F0101.D	12/09/10 16:00
10L0349	EDB ICAL 6 (0.40ppb)	0L34409-CAL6	007R0101.D	12/09/10 16:00
10L0350	EDB ICAL 7 (0.50ppb)	0L34409-CAL7	008F0101.D	12/09/10 16:21
10L0350	EDB ICAL 7 (0.50ppb)	0L34409-CAL7	008R0101.D	12/09/10 16:21
10L0351	EDB ICAL 8 (1.00ppb)	0L34409-CAL8	009R0101.D	12/09/10 16:42
10L0351	EDB ICAL 8 (1.00ppb)	0L34409-CAL8	009F0101.D	12/09/10 16:42

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 2:14:04PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	1	14540	0.5	15516	0.4	15402.5	0.2	16590	0.15	15980	0.1	~~17600~~
1,2-Dibromoethane [2C]	1	29076	0.5	33560	0.4	33402.5	0.2	38785	0.15	37866.67	0.1	~~42050~~
1,2-Dibromo-3-chloropropane	1	24442	0.5	28986	0.4	28852.5	0.2	31650	0.15	31693.33	0.1	~~45080~~
1,2-Dibromo-3-chloropropane [2C]	1	69695	0.5	78930	0.4	76647.5	0.2	85730	0.15	88033.34	0.1	~~105450~~

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 2:14:04PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	0.05	23100	0.03	21300								
1,2-Dibromoethane [2C]	0.05	45260	0.03	42333.33								
1,2-Dibromo-3-chloropropane	0.05	52760	0.03	51166.67								
1,2-Dibromo-3-chloropropane [2C]	0.05	155180	0.03	148933.3								

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 2:14:04PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	17489.79	18.96825	1.543	1.749237E-02		0.9996372	CCC ()	*
1,2-Dibromoethane [2C]	37183.36	15.05167	0.583	2.248094E-02		0.9995717	CCC ()	*
1,2-Dibromo-3-chloropropane	35650.07	32.01128	6.973	2.748517E-02		0.9987968	CCC ()	*
1,2-Dibromo-3-chloropropane [2C]	100449.9	35.64558	4.139286	5.910871E-02		0.9986728	CCC ()	*

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	010F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	0L34409	Injection Date:	12/09/10
Lab Sample ID:	0L34409-ICV1	Injection Time:	17:04

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4746	17489.79	14620		-5.1	20
1,2-Dibromoethane [2C]	Q	0.5000	0.4584	37183.36	30824		-8.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	002F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B04113	Injection Date:	02/07/11
Lab Sample ID:	1B04113-CCV1	Injection Time:	14:16

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5145	17489.79	15762		2.9	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5592	37183.36	36414		11.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	017F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B04113	Injection Date:	02/07/11
Lab Sample ID:	1B04113-CCV2	Injection Time:	19:39

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5048	17489.79	15486		1.0	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5417	37183.36	35464		8.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	020F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B04113	Injection Date:	02/07/11
Lab Sample ID:	1B04113-CCV3	Injection Time:	20:42

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5102	17489.79	15640		2.0	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5447	37183.36	35626		8.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

HOLDING TIME SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_002

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0034	01/28/11 14:25	01/29/11 09:30	02/07/11 14:59	10.02	14.00	02/07/11 18:14	0.14	14.00	
GW0012	01/31/11 11:52	02/01/11 08:45	02/07/11 14:59	7.13	14.00	02/07/11 18:35	0.15	14.00	
GW0013	01/31/11 14:40	02/01/11 08:45	02/07/11 14:59	7.01	14.00	02/07/11 18:57	0.17	14.00	
GW0035	02/02/11 09:55	02/03/11 08:45	02/07/11 14:59	5.21	14.00	02/07/11 19:18	0.18	14.00	
GW0039	02/02/11 12:05	02/03/11 08:45	02/07/11 14:59	5.12	14.00	02/07/11 20:00	0.21	14.00	
GW0008	02/03/11 12:42	02/04/11 08:45	02/07/11 14:59	4.10	14.00	02/07/11 20:21	0.22	14.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B07020-BS1
File ID: 004F0101.D
Sampled:
Prepared:
Analyzed: 02/07/11 15:08
Solids:
Preparation: EDB
Dilution:
Batch: 1B07020
Sequence: 1B04113
Calibration: 0344003
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5440	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B07020-BS1
File ID: 004R0101.D
Sampled:
Prepared:
Analyzed: 02/07/11 15:08
Solids:
Preparation: EDB
Dilution:
Batch: 1B07020
Sequence: 1B04113
Calibration: 0344003
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5412	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B07020-BSD1
File ID: 005F0101.D
Sampled:
Prepared:
Analyzed: 02/07/11 15:24
Solids:
Preparation: EDB
Dilution:
Batch: 1B07020
Sequence: 1B04113
Calibration: 0344003
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5078	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B07020-BSD1
File ID: 005R0101.D
Sampled:
Prepared:
Analyzed: 02/07/11 15:24
Solids:
Preparation: EDB
Dilution:
Batch: 1B07020
Sequence: 1B04113
Calibration: 0344003
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5629	0.0100	0.0200	0.0300	

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1B07020-BS1 Date(s) Analyzed: 02/07/2011 02/07/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.5440	
	2	0.58	0.55	0.61	0.5412	1

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1B07020-BSD1 Date(s) Analyzed: 02/07/2011 02/07/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.5078	
	2	0.58	0.55	0.61	0.5629	10

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_002

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** GL-ECD2

Analyte	MDL	MRL	Units	Method
1,2-Dibromoethane	0.0100	0.0300	ug/L	SW8011

Data for SW6010B Forms

ANALYSIS DATA SHEET

GW0034

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/28/11 14:25
% Solids: 0.00

SDG: kirtland_002
Project: Kirtland AFB 2011
Laboratory ID: 1101211-01
Received: 01/29/11 09:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	32300	1000	2000	5000	1		SW6010B	1B02005	02/03/11 13:01
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B02005	02/03/11 13:01
7439-95-4	Magnesium	4540	1000	3000	5000	1	J	SW6010B	1B02005	02/03/11 13:01
7440-09-7	Potassium	2070	1000	3000	5000	1	J	SW6010B	1B02005	02/03/11 13:01
7440-23-5	Sodium	21800	1000	3000	5000	1		SW6010B	1B02005	02/03/11 13:01

ANALYSIS DATA SHEET

GW0034

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/28/11 14:25
% Solids: 0.00

SDG: kirtland_002
Project: Kirtland AFB 2011
Laboratory ID: 1101211-02
Received: 01/29/11 09:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1B02005	02/03/11 13:06
7439-96-5	Manganese (dissolved)	10.9	3.00	6.00	15.0	1	J	SW6010B	1B02005	02/03/11 13:06

ANALYSIS DATA SHEET

GW0012

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/31/11 11:52
% Solids: 0.00

SDG: kirtland_002
Project: Kirtland AFB 2011
Laboratory ID: 1102004-01
Received: 02/01/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	33700	1000	2000	5000	1		SW6010B	1B02005	02/03/11 13:38
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B02005	02/03/11 13:38
7439-95-4	Magnesium	4660	1000	3000	5000	1	J	SW6010B	1B02005	02/03/11 13:38
7440-09-7	Potassium	2230	1000	3000	5000	1	J	SW6010B	1B02005	02/03/11 13:38
7440-23-5	Sodium	25100	1000	3000	5000	1		SW6010B	1B02005	02/03/11 13:38

ANALYSIS DATA SHEET

GW0012

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/31/11 11:52
% Solids: 0.00

SDG: kirtland_002
Project: Kirtland AFB 2011
Laboratory ID: 1102004-02
Received: 02/01/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1B02005	02/03/11 13:43
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1B02005	02/03/11 13:43

ANALYSIS DATA SHEET

GW0013

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/31/11 14:40
% Solids: 0.00

SDG: kirtland_002
Project: Kirtland AFB 2011
Laboratory ID: 1102004-03
Received: 02/01/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	101000	1000	2000	5000	1		SW6010B	1B02005	02/03/11 13:47
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B02005	02/03/11 13:47
7439-95-4	Magnesium	15200	1000	3000	5000	1		SW6010B	1B02005	02/03/11 13:47
7440-09-7	Potassium	3830	1000	3000	5000	1	J	SW6010B	1B02005	02/03/11 13:47
7440-23-5	Sodium	44900	1000	3000	5000	1		SW6010B	1B02005	02/03/11 13:47

ANALYSIS DATA SHEET

GW0013

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/31/11 14:40
% Solids: 0.00

SDG: kirtland_002
Project: Kirtland AFB 2011
Laboratory ID: 1102004-04
Received: 02/01/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1B02005	02/03/11 13:52
7439-96-5	Manganese (dissolved)	122	3.00	6.00	15.0	1		SW6010B	1B02005	02/03/11 13:52

ANALYSIS DATA SHEET

GW0035

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/02/11 09:55
% Solids: 0.00

SDG: kirtland_002
Project: Kirtland AFB 2011
Laboratory ID: 1102024-01
Received: 02/03/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	35800	1000	2000	5000	1		SW6010B	1B07002	02/09/11 11:35
7439-92-1	Lead	4.36	1.50	3.00	3.00	1		SW6010B	1B07002	02/09/11 11:35
7439-95-4	Magnesium	5000	1000	3000	5000	1		SW6010B	1B07002	02/09/11 11:35
7440-09-7	Potassium	2630	1000	3000	5000	1	J	SW6010B	1B07002	02/09/11 11:35
7440-23-5	Sodium	26900	1000	3000	5000	1		SW6010B	1B07002	02/09/11 11:35

ANALYSIS DATA SHEET

GW0035

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/02/11 09:55
% Solids: 0.00

SDG: kirtland_002
Project: Kirtland AFB 2011
Laboratory ID: 1102024-02
Received: 02/03/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	67.1	30.0	60.0	100	1	J	SW6010B	1B07002	02/09/11 11:39
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1B07002	02/09/11 11:39

ANALYSIS DATA SHEET

GW0039

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/02/11 12:05
% Solids: 0.00

SDG: kirtland_002
Project: Kirtland AFB 2011
Laboratory ID: 1102024-03
Received: 02/03/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	34300	1000	2000	5000	1		SW6010B	1B07002	02/09/11 11:44
7439-92-1	Lead		2.00	3.00	3.00	1	M U	SW6010B	1B07002	02/09/11 11:44
7439-95-4	Magnesium	7090	1000	3000	5000	1		SW6010B	1B07002	02/09/11 11:44
7440-09-7	Potassium	4340	1000	3000	5000	1	J	SW6010B	1B07002	02/09/11 11:44
7440-23-5	Sodium	25100	1000	3000	5000	1		SW6010B	1B07002	02/09/11 11:44

ANALYSIS DATA SHEET

GW0039

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/02/11 12:05
% Solids: 0.00

SDG: kirtland_002
Project: Kirtland AFB 2011
Laboratory ID: 1102024-04
Received: 02/03/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	66.8	30.0	60.0	100	1	J	SW6010B	1B07002	02/09/11 11:49
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1B07002	02/09/11 11:49

ANALYSIS DATA SHEET

GW0008

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/03/11 12:42
% Solids: 0.00

SDG: kirtland_002
Project: Kirtland AFB 2011
Laboratory ID: 1102028-01
Received: 02/04/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	38600	1000	2000	5000	1		SW6010B	1B07002	02/09/11 11:53
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B07002	02/09/11 11:53
7439-95-4	Magnesium	5770	1000	3000	5000	1		SW6010B	1B07002	02/09/11 11:53
7440-09-7	Potassium	2600	1000	3000	5000	1	J	SW6010B	1B07002	02/09/11 11:53
7440-23-5	Sodium	28700	1000	3000	5000	1		SW6010B	1B07002	02/09/11 11:53

ANALYSIS DATA SHEET

GW0008

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/03/11 12:42
% Solids: 0.00

SDG: kirtland_002
Project: Kirtland AFB 2011
Laboratory ID: 1102028-02
Received: 02/04/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1B07002	02/09/11 11:58
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1B07002	02/09/11 11:58

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
SDG: kirtland_002
Project: Kirtland AFB 2011
Calibration: 1038004
Sequence: 1B03704

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B03704-ICV1	Calcium	50000	50260	101	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10100	101	ug/L	+/- 10.00%
	Lead	1000	1013	101	ug/L	+/- 10.00%
	Magnesium	50000	50220	100	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1036	104	ug/L	+/- 10.00%
	Potassium	10000	9299	93.0	ug/L	+/- 10.00%
	Sodium	50000	51200	102	ug/L	+/- 10.00%
1B03704-CCV1	Calcium	50000	50770	102	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10200	102	ug/L	+/- 10.00%
	Lead	1000	994.7	99.5	ug/L	+/- 10.00%
	Magnesium	50000	50070	100	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1023	102	ug/L	+/- 10.00%
	Potassium	10000	9631	96.3	ug/L	+/- 10.00%
	Sodium	50000	50440	101	ug/L	+/- 10.00%
1B03704-CCV2	Calcium	50000	48350	96.7	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9493	94.9	ug/L	+/- 10.00%
	Lead	1000	981.1	98.1	ug/L	+/- 10.00%
	Magnesium	50000	48700	97.4	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	998.1	99.8	ug/L	+/- 10.00%
	Potassium	10000	10250	102	ug/L	+/- 10.00%
	Sodium	50000	53550	107	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: kirtland_002
Project: Kirtland AFB 2011
Calibration: 1045001
Sequence: 1B04406

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04406-ICV1	Calcium	50000	48130	96.3	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9910	99.1	ug/L	+/- 10.00%
	Lead	1000	1005	101	ug/L	+/- 10.00%
	Magnesium	50000	48450	96.9	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1020	102	ug/L	+/- 10.00%
	Potassium	10000	9928	99.3	ug/L	+/- 10.00%
	Sodium	50000	52290	105	ug/L	+/- 10.00%
1B04406-CCV1	Calcium	50000	48200	96.4	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9813	98.1	ug/L	+/- 10.00%
	Lead	1000	1016	102	ug/L	+/- 10.00%
	Magnesium	50000	48470	96.9	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1036	104	ug/L	+/- 10.00%
	Potassium	10000	10220	102	ug/L	+/- 10.00%
	Sodium	50000	51260	103	ug/L	+/- 10.00%
1B04406-CCV2	Calcium	50000	46260	92.5	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9839	98.4	ug/L	+/- 10.00%
	Lead	1000	1029	103	ug/L	+/- 10.00%
	Magnesium	50000	49300	98.6	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1030	103	ug/L	+/- 10.00%
	Potassium	10000	11010	110	ug/L	+/- 10.00%
	Sodium	50000	54330	109	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1038004
Sequence: 1B03704

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B03704-CRL1	Calcium	2000	1986	99.3	ug/L	80 - 120
	Iron (dissolved)	60.00	62.03	103	ug/L	80 - 120
	Magnesium	3000	2882	96.1	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.259	104	ug/L	80 - 120
	Potassium	3000	2868	95.6	ug/L	80 - 120
	Sodium	3000	2988	99.6	ug/L	80 - 120
1B03704-CRL2	Lead	3.000	2.980	99.3	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1045001
Sequence: 1B04406

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B04406-CRL1	Calcium	2000	1984	99.2	ug/L	80 - 120
	Iron (dissolved)	60.00	61.50	102	ug/L	80 - 120
	Lead	3.000	2.520	84.0	ug/L	80 - 120
	Magnesium	3000	2911	97.0	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.572	110	ug/L	80 - 120
	Potassium	3000	3116	104	ug/L	80 - 120
	Sodium	3000	3281	109	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1B03704
Calibration: 1038004

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B03704-ICB1	Calcium	2.920	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	1.777	30.0	100	ug/L	U	SW6010B
	Lead	-0.9809	1.50	3.00	ug/L	U	SW6010B
	Magnesium	6.890	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.04843	3.00	15.0	ug/L	U	SW6010B
	Potassium	2.110	1000	5000	ug/L	U	SW6010B
	Sodium	-16.31	1000	5000	ug/L	U	SW6010B
1B03704-CCB1	Calcium	103	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	39.8	30.0	100	ug/L	J	SW6010B
	Lead	0.277	1.50	3.00	ug/L	U	SW6010B
	Magnesium	95.9	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.145	3.00	15.0	ug/L	U	SW6010B
	Potassium	5.48	1000	5000	ug/L	U	SW6010B
	Sodium	0.920	1000	5000	ug/L	U	SW6010B
1B02005-BLK1	Calcium	31.5	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	9.62	30.0	100	ug/L	U	SW6010B
	Lead	-0.0525	1.50	3.00	ug/L	U	SW6010B
	Magnesium	23.0	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0736	3.00	15.0	ug/L	U	SW6010B
	Potassium	-0.470	1000	5000	ug/L	U	SW6010B
	Sodium	-11.6	1000	5000	ug/L	U	SW6010B
1B03704-CCB2	Calcium	7.48	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	1.13	30.0	100	ug/L	U	SW6010B
	Lead	-0.683	1.50	3.00	ug/L	U	SW6010B
	Magnesium	9.09	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.119	3.00	15.0	ug/L	U	SW6010B
	Potassium	8.66	1000	5000	ug/L	U	SW6010B
	Sodium	-18.0	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1B04406
Calibration: 1045001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04406-ICB1	Calcium	6.020	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	1.457	30.0	100	ug/L	U	SW6010B
	Lead	-0.9219	1.50	3.00	ug/L	U	SW6010B
	Magnesium	1.920	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.09803	3.00	15.0	ug/L	U	SW6010B
	Potassium	-3.240	1000	5000	ug/L	U	SW6010B
	Sodium	7.160	1000	5000	ug/L	U	SW6010B
1B04406-CCB1	Calcium	20.0	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	7.60	30.0	100	ug/L	U	SW6010B
	Lead	0.0760	1.50	3.00	ug/L	U	SW6010B
	Magnesium	22.1	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0964	3.00	15.0	ug/L	U	SW6010B
	Potassium	12.0	1000	5000	ug/L	U	SW6010B
	Sodium	8.10	1000	5000	ug/L	U	SW6010B
1B07002-BLK1	Calcium	15.9	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	3.28	30.0	100	ug/L	U	SW6010B
	Lead	-0.670	1.50	3.00	ug/L	U	SW6010B
	Magnesium	13.7	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0838	3.00	15.0	ug/L	U	SW6010B
	Potassium	14.5	1000	5000	ug/L	U	SW6010B
	Sodium	6.98	1000	5000	ug/L	U	SW6010B
1B04406-CCB2	Calcium	42.9	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-0.888	30.0	100	ug/L	U	SW6010B
	Lead	-0.462	1.50	3.00	ug/L	U	SW6010B
	Magnesium	11.2	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.235	3.00	15.0	ug/L	U	SW6010B
	Potassium	32.2	1000	5000	ug/L	U	SW6010B
	Sodium	44.5	1000	5000	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1038004
Sequence: 1B03704

Lab Sample ID	Analyte	True	Found	%R	Units
1B03704-IFA1	Calcium	500000	480,330.00	96.1	ug/L
	Iron (dissolved)	200000	195,590.00	97.8	ug/L
	Lead		8.83		ug/L
	Magnesium	500000	495,130.00	99.0	ug/L
	Manganese (dissolved)		3.51		ug/L
	Potassium		-33.64		ug/L
	Sodium		33.76		ug/L
1B03704-IFB1	Calcium	500000	466,880.00	93.4	ug/L
	Iron (dissolved)	200000	187,220.00	93.6	ug/L
	Lead	50.00	54.88	110	ug/L
	Magnesium	500000	472,610.00	94.5	ug/L
	Manganese (dissolved)	500.0	446.24	89.2	ug/L
	Potassium		-15.32		ug/L
	Sodium		52.85		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1045001
Sequence: 1B04406

Lab Sample ID	Analyte	True	Found	%R	Units
1B04406-IFA1	Calcium	500000	475,210.00	95.0	ug/L
	Iron (dissolved)	200000	195,590.00	97.8	ug/L
	Lead		6.98		ug/L
	Magnesium	500000	497,930.00	99.6	ug/L
	Manganese (dissolved)		4.73		ug/L
	Potassium		-53.21		ug/L
	Sodium		16.70		ug/L
1B04406-IFB1	Calcium	500000	445,740.00	89.1	ug/L
	Iron (dissolved)	200000	180,710.00	90.4	ug/L
	Lead	50.00	55.97	112	ug/L
	Magnesium	500000	461,960.00	92.4	ug/L
	Manganese (dissolved)	500.0	449.77	90.0	ug/L
	Potassium		-51.26		ug/L
	Sodium		56.54		ug/L

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B02005	Laboratory ID:	1B02005-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Calcium	5000	4972	99.4	80 - 120
Iron (dissolved)	1000	1039	104	80 - 120
Lead	250.0	258.9	104	80 - 120
Magnesium	5000	4830	96.6	80 - 120
Manganese (dissolved)	500.0	520.7	104	80 - 120
Potassium	5000	4844	96.9	80 - 120
Sodium	5000	5139	103	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B07002	Laboratory ID:	1B07002-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Calcium	5000	4615	92.3	80 - 120
Iron (dissolved)	1000	1002	100	80 - 120
Lead	250.0	261.6	105	80 - 120
Magnesium	5000	4615	92.3	80 - 120
Manganese (dissolved)	500.0	520.6	104	80 - 120
Potassium	5000	4939	98.8	80 - 120
Sodium	5000	5036	101	80 - 120

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_002

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** ME-ICP

Analyte	MDL	MRL	Units	Method
Calcium	1000	5000	ug/L	SW6010B
Iron (dissolved)	30.0	100	ug/L	SW6010B
Lead	1.50	3.00	ug/L	SW6010B
Magnesium	1000	5000	ug/L	SW6010B
Manganese (dissolved)	3.00	15.0	ug/L	SW6010B
Potassium	1000	5000	ug/L	SW6010B
Sodium	1000	5000	ug/L	SW6010B

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_002

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Ag
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_002

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		As	B	Ba	Be	Cd
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_002

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	K	Mn
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_002

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Mo	Na	Ni	Pb	Sb
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_002

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Se	Sn	Ti	Tl	V
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_002

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				

Comments:

FORM XA-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories, LLC

Client: Shaw E & I (I700) SDG: kirtland_002

Project: Kirtland AFB 2011

ICP Instrument ID: ME-ICP Date: 09/11/2009

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Calcium	15	500000	P
Calcium	15	500000	P
Calcium	15	500000	P
Calcium	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Lead	15	10000	P
Lead	15	10000	P
Lead	15	10000	P
Lead	15	10000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Manganese	15	10000	P
Manganese	15	10000	P
Manganese	15	10000	P
Manganese	15	10000	P
Potassium	15	100000	P
Potassium	15	100000	P
Potassium	15	100000	P
Potassium	15	100000	P
Sodium	15	500000	P
Sodium	15	500000	P
Sodium	15	500000	P
Sodium	15	500000	P

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B02005 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0034	1101211-01	02/02/11 09:01	50.00	50.00
GW0034	1101211-02	02/02/11 09:01	50.00	50.00
GW0012	1102004-01	02/02/11 09:01	50.00	50.00
GW0012	1102004-02	02/02/11 09:01	50.00	50.00
GW0013	1102004-03	02/02/11 09:01	50.00	50.00
GW0013	1102004-04	02/02/11 09:01	50.00	50.00
Blank	1B02005-BLK1	02/02/11 09:01	50.00	50.00
Blank	1B02005-BLK1	02/02/11 09:01	50.00	50.00
LCS	1B02005-BS1	02/02/11 09:01	50.00	50.00
LCS	1B02005-BS1	02/02/11 09:01	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B07002 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0035	1102024-01	02/07/11 07:44	50.00	50.00
GW0035	1102024-02	02/07/11 07:44	50.00	50.00
GW0039	1102024-03	02/07/11 07:44	50.00	50.00
GW0039	1102024-04	02/07/11 07:44	50.00	50.00
GW0008	1102028-01	02/07/11 07:44	50.00	50.00
GW0008	1102028-02	02/07/11 07:44	50.00	50.00
Blank	1B07002-BLK1	02/07/11 07:44	50.00	50.00
Blank	1B07002-BLK1	02/07/11 07:44	50.00	50.00
LCS	1B07002-BS1	02/07/11 07:44	50.00	50.00
LCS	1B07002-BS1	02/07/11 07:44	50.00	50.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B03704
Instrument: ME-ICP
Calibration: 1038004

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B03704-CAL1	020311A-001	02/03/11 10:54
Cal Standard	1B03704-CAL1	020311A-001	02/03/11 10:54
Cal Standard	1B03704-CAL2	020311A-002	02/03/11 10:59
Cal Standard	1B03704-CAL2	020311A-002	02/03/11 10:59
Cal Standard	1B03704-CAL3	020311A-003	02/03/11 11:03
Cal Standard	1B03704-CAL3	020311A-003	02/03/11 11:03
Cal Standard	1B03704-CAL4	020311A-004	02/03/11 11:08
Cal Standard	1B03704-CAL5	020311A-005	02/03/11 11:13
Cal Standard	1B03704-CAL5	020311A-005	02/03/11 11:13
Cal Standard	1B03704-CAL6	020311A-006	02/03/11 11:18
Cal Standard	1B03704-CAL6	020311A-006	02/03/11 11:18
Cal Standard	1B03704-CAL7	020311A-007	02/03/11 11:24
Cal Standard	1B03704-CAL8	020311A-008	02/03/11 11:29
Initial Cal Check	1B03704-ICV1	020311B-001	02/03/11 11:59
Initial Cal Check	1B03704-ICV1	020311B-001	02/03/11 11:59
Initial Cal Blank	1B03704-ICB1	020311B-002	02/03/11 12:06
Initial Cal Blank	1B03704-ICB1	020311B-002	02/03/11 12:06
Instrument RL Check	1B03704-CRL1	020311B-003	02/03/11 12:11
Instrument RL Check	1B03704-CRL1	020311B-003	02/03/11 12:11
Instrument RL Check	1B03704-CRL2	020311B-004	02/03/11 12:15
Interference Check A	1B03704-IFA1	020311B-005	02/03/11 12:20
Interference Check A	1B03704-IFA1	020311B-005	02/03/11 12:20
Interference Check B	1B03704-IFB1	020311B-006	02/03/11 12:26
Interference Check B	1B03704-IFB1	020311B-006	02/03/11 12:26
Calibration Check	1B03704-CCV1	020311B-008	02/03/11 12:36
Calibration Check	1B03704-CCV1	020311B-008	02/03/11 12:36
Calibration Blank	1B03704-CCB1	020311B-009	02/03/11 12:44
Calibration Blank	1B03704-CCB1	020311B-009	02/03/11 12:44
Blank	1B02005-BLK1	020311B-010	02/03/11 12:48
Blank	1B02005-BLK1	020311B-010	02/03/11 12:48
LCS	1B02005-BS1	020311B-011	02/03/11 12:55
LCS	1B02005-BS1	020311B-011	02/03/11 12:55

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03704	Instrument:	ME-ICP
Calibration:	1038004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0034	1101211-01	020311B-012	02/03/11 13:01
GW0034	1101211-02	020311B-013	02/03/11 13:06
GW0012	1102004-01	020311B-020	02/03/11 13:38
GW0012	1102004-02	020311B-021	02/03/11 13:43
GW0013	1102004-03	020311B-022	02/03/11 13:47
GW0013	1102004-04	020311B-023	02/03/11 13:52
Calibration Check	1B03704-CCV2	020311B-026	02/03/11 14:07
Calibration Check	1B03704-CCV2	020311B-026	02/03/11 14:07
Calibration Blank	1B03704-CCB2	020311B-027	02/03/11 14:14
Calibration Blank	1B03704-CCB2	020311B-027	02/03/11 14:14

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04406	Instrument:	ME-ICP
Calibration:	1045001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B04406-CAL1	020911A-001	02/09/11 09:03
Cal Standard	1B04406-CAL1	020911A-001	02/09/11 09:03
Cal Standard	1B04406-CAL2	020911A-002	02/09/11 09:07
Cal Standard	1B04406-CAL2	020911A-002	02/09/11 09:07
Cal Standard	1B04406-CAL3	020911A-003	02/09/11 09:12
Cal Standard	1B04406-CAL3	020911A-003	02/09/11 09:12
Cal Standard	1B04406-CAL4	020911A-004	02/09/11 09:16
Cal Standard	1B04406-CAL5	020911A-005	02/09/11 09:21
Cal Standard	1B04406-CAL5	020911A-005	02/09/11 09:21
Cal Standard	1B04406-CAL6	020911A-006	02/09/11 09:26
Cal Standard	1B04406-CAL6	020911A-006	02/09/11 09:26
Cal Standard	1B04406-CAL7	020911A-007	02/09/11 09:32
Cal Standard	1B04406-CAL8	020911A-009	02/09/11 09:42
Initial Cal Check	1B04406-ICV1	020911B-001	02/09/11 10:16
Initial Cal Check	1B04406-ICV1	020911B-001	02/09/11 10:16
Initial Cal Blank	1B04406-ICB1	020911B-002	02/09/11 10:23
Initial Cal Blank	1B04406-ICB1	020911B-002	02/09/11 10:23
Instrument RL Check	1B04406-CRL1	020911B-003	02/09/11 10:28
Instrument RL Check	1B04406-CRL1	020911B-003	02/09/11 10:28
Interference Check A	1B04406-IFA1	020911B-005	02/09/11 10:37
Interference Check A	1B04406-IFA1	020911B-005	02/09/11 10:37
Interference Check B	1B04406-IFB1	020911B-006	02/09/11 10:43
Interference Check B	1B04406-IFB1	020911B-006	02/09/11 10:43
Calibration Check	1B04406-CCV1	020911B-008	02/09/11 10:58
Calibration Check	1B04406-CCV1	020911B-008	02/09/11 10:58
Calibration Blank	1B04406-CCB1	020911B-009	02/09/11 11:05
Calibration Blank	1B04406-CCB1	020911B-009	02/09/11 11:05
Blank	1B07002-BLK1	020911B-010	02/09/11 11:10
Blank	1B07002-BLK1	020911B-010	02/09/11 11:10
LCS	1B07002-BS1	020911B-011	02/09/11 11:14
LCS	1B07002-BS1	020911B-011	02/09/11 11:14
GW0035	1102024-01	020911B-015	02/09/11 11:35

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04406	Instrument:	ME-ICP
Calibration:	1045001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0035	1102024-02	020911B-016	02/09/11 11:39
GW0039	1102024-03	020911B-017	02/09/11 11:44
GW0039	1102024-04	020911B-018	02/09/11 11:49
GW0008	1102028-01	020911B-019	02/09/11 11:53
GW0008	1102028-02	020911B-020	02/09/11 11:58
Calibration Check	1B04406-CCV2	020911B-022	02/09/11 12:08
Calibration Check	1B04406-CCV2	020911B-022	02/09/11 12:08
Calibration Blank	1B04406-CCB2	020911B-023	02/09/11 12:16
Calibration Blank	1B04406-CCB2	020911B-023	02/09/11 12:16

INITIAL CALIBRATION DATA

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1038004
Instrument: ME-ICP
Matrix: Water
Calibration Date: 2/3/2011 11:55:33AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	1.7072E-05	10000	1.7787E-05			500000	1.75088E-05		
Antimony	0	0	100	0.0006837	1000	7.3632E-04					10000	0.0007299
Arsenic	0	0	100	0.0003394	1000	3.7101E-04					10000	3.6574E-04
Barium	0	0	50	0.0109944	1000	0.010637	5000	0.010876				
Beryllium	0	0	100	0.0016182	1000	0.0016834					10000	0.0015973
Boron	0	0	50	0.0000104	1000	1.123E-05					5000	1.1056E-05
Cadmium	0	0	100	0.0091309	1000	0.0091196					10000	0.0085343
Calcium	0	0	1100	0.0000257	50000	2.6192E-05					10000	
Chromium	0	0	100	0.0000219	1000	2.132E-05					10000	2.1652E-05
Cobalt	0	0	100	0.0047924	1000	0.0048577					10000	0.0048647
Copper	0	0	100	0.0000748	1000	7.021E-05					10000	6.964E-05
Iron	0	0	5100	9.82353E-06	10000	0.0000097			500000	9.430199E-06	10000	
Lead	0	0	100	0.001103	1000	0.0011223					10000	0.0011145
Magnesium	0	0	5100		50000	1.1454E-06			500000	1.15252E-06	10000	
Manganese	0	0	100	0.0001654	1000	1.6097E-04	10000	0.0001565			10000	
Molybdenum	0	0	100	0.0039991	1000	0.004155					10000	0.0041067
Nickel	0	0	100	0.00308	1000	0.003082					10000	0.0030836
Potassium	0	0	1000	9.73E-06	10000	1.0732E-05						
Selenium	0	0	100	0.0004294	1000	4.3442E-04					10000	4.2308E-04
Silver	0	0	20	0.0000435	500	4.326E-05	2000	4.408E-05				
Sodium	0	0	1000		50000	4.1766E-05						
Strontium	0	0	100	0.001375	1000	0.00141					10000	0.001351
Thallium	0	0	100	0.0007348	1000	7.7658E-04					10000	0.0007729
Tin	0	0	50	0.0010126	1000	0.0010852					5000	1.08898E-03
Titanium	0	0	100	0.0001595	1000	1.6349E-04					10000	1.6076E-04
Vanadium	0	0	100	0.000032	1000	3.144E-05					10000	3.1788E-05
Zinc	0	0	100	0.0035987	1000	0.0036912					10000	0.0036023
Aluminum	0	0	5000	1.7072E-05	10000	1.7787E-05			500000	1.75088E-05		
Antimony	0	0	100	0.0006837	1000	7.3632E-04					10000	0.0007299
Arsenic	0	0	100	0.0003394	1000	3.7101E-04					10000	3.6574E-04
Barium	0	0	50	0.0109944	1000	0.010637	5000	0.010876				

INITIAL CALIBRATION DATA

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1038004
Instrument: ME-ICP
Matrix: Water
Calibration Date: 2/3/2011 11:55:33AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium	0	0	100	0.0016182	1000	0.0016834					10000	0.0015973
Boron	0	0	50	0.0000104	1000	1.123E-05					5000	1.1056E-05
Cadmium	0	0	100	0.0091309	1000	0.0091196					10000	0.0085343
Calcium	0	0	1100	0.0000257	50000	2.6192E-05					10000	
Chromium	0	0	100	0.0000219	1000	2.132E-05					10000	2.1652E-05
Cobalt	0	0	100	0.0047924	1000	0.0048577					10000	0.0048647
Copper	0	0	100	0.0000748	1000	7.021E-05					10000	6.964E-05
Iron	0	0	5100	9.82353E-06	10000	0.0000097			500000	9.430199E-06	10000	
Lead	0	0	100	0.001103	1000	0.0011223					10000	0.0011145
Magnesium	0	0	5100		50000	1.1454E-06			500000	1.15252E-06	10000	
Manganese	0	0	100	0.0001654	1000	1.6097E-04	10000	0.0001565			10000	
Molybdenum	0	0	100	0.0039991	1000	0.004155					10000	0.0041067
Nickel	0	0	100	0.00308	1000	0.003082					10000	0.0030836
Potassium	0	0	1000	9.73E-06	10000	1.0732E-05						
Selenium	0	0	100	0.0004294	1000	4.3442E-04					10000	4.2308E-04
Silver	0	0	20	0.0000435	500	4.326E-05	2000	4.408E-05				
Sodium	0	0	1000		50000	4.1766E-05						
Strontium	0	0	100	0.001375	1000	0.00141					10000	0.001351
Thallium	0	0	100	0.0007348	1000	7.7658E-04					10000	0.0007729
Tin	0	0	50	0.0010126	1000	0.0010852					5000	1.08898E-03
Titanium	0	0	100	0.0001595	1000	1.6349E-04					10000	1.6076E-04
Vanadium	0	0	100	0.000032	1000	3.144E-05					10000	3.1788E-05
Zinc	0	0	100	0.0035987	1000	0.0036912					10000	0.0036023

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038004	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/3/2011 11:55:33AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	2.5566E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.1305E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.0648E-05										
Selenium												
Silver												
Sodium	100000	4.0379E-05	500000	3.9354E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038004	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/3/2011 11:55:33AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	2.5566E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.1305E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.0648E-05										
Selenium												
Silver												
Sodium	100000	4.0379E-05	500000	3.9354E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1038004
Instrument: ME-ICP
Matrix: Water
Calibration Date: 2/3/2011 11:55:33AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.309195E-05	66.70455	14.24929	173.6044	0.9999998		0.998	
Antimony	5.3748E-04	66.80915	15.50002	184.7943	0.9999983		0.998	
Arsenic	2.690375E-04	66.86449	16.05279	191.6362	0.9999964		0.998	
Barium	8.12685E-03	66.69175	6.471315	159.9434	0.9999782		0.998	
Beryllium	1.224725E-03	66.73386	11.15282	166.5542	0.9999714		0.998	
Boron	8.1715E-06	66.80997	23.81002	194.7425	0.9999872		0.998	
Cadmium	0.0066962	66.79638	1.06019	72.01979	0.9999604		0.998	
Calcium	1.93645E-05	66.68116	1.932143	99.5433	0.9999941		0.998	
Chromium	1.6218E-05	66.68276	50.65862	197.2045	0.9999975		0.998	
Cobalt	0.0036287	66.6727	3.58161	161.8496	1		0.998	
Copper	5.36625E-05	66.80548	0.995715	73.76394	1		0.998	
Iron	7.238432E-06	66.70527	48.88788	191.6336	0.9999998		0.998	
Lead	8.3495E-04	66.67343	58.79141	196.6085	0.9999994		0.998	
Magnesium	8.57105E-07	66.67526	108.9654	196.4732	0.999985		0.998	
Manganese	1.207175E-04	66.73458	13.35279	191.8416	0.999993		0.998	
Molybdenum	0.0030652	66.70055	8.536133	178.9861	0.9999983		0.998	
Nickel	0.0023114	66.6667	5.636557	176.3805	1		0.998	
Potassium	7.7775E-06	66.92156	3.74397	92.4233	0.9999977		0.998	
Selenium	3.21725E-04	66.68226	4.696605	155.8727	0.999994		0.998	
Silver	3.271E-05	66.67497	6.16875	164.8735	0.9999749		0.998	
Sodium	3.037475E-05	66.74603	2.79805	49.42007	0.9999595		0.998	
Strontium	0.001034	66.70783	10.31315	166.3253	0.9999814		0.998	
Thallium	5.7107E-04	66.74866	2.861728	136.2617	0.9999993		0.998	
Tin	7.96695E-04	66.81249	3.923652	157.8427	0.9999998		0.998	
Titanium	1.209375E-04	66.68089	14.6307	176.008	0.999997		0.998	
Vanadium	2.3807E-05	66.67372	5.01973	178.2611	0.9999986		0.998	
Zinc	2.72305E-03	66.68517	5.757907	173.3542	0.9999938		0.998	
Aluminum	1.309195E-05	66.70455	14.24929	173.6044	0.9999998		0.998	
Antimony	5.3748E-04	66.80915	15.50002	184.7943	0.9999983		0.998	
Arsenic	2.690375E-04	66.86449	16.05279	191.6362	0.9999964		0.998	
Barium	8.12685E-03	66.69175	6.471315	159.9434	0.9999782		0.998	
Beryllium	1.224725E-03	66.73386	11.15282	166.5542	0.9999714		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038004	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/3/2011 11:55:33AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	8.1715E-06	66.80997	23.81002	194.7425	0.9999872		0.998	
Cadmium	0.0066962	66.79638	1.06019	72.01979	0.9999604		0.998	
Calcium	1.93645E-05	66.68116	1.932143	99.5433	0.9999941		0.998	
Chromium	1.6218E-05	66.68276	50.65862	197.2045	0.9999975		0.998	
Cobalt	0.0036287	66.6727	3.58161	161.8496	1		0.998	
Copper	5.36625E-05	66.80548	0.995715	73.76394	1		0.998	
Iron	7.238432E-06	66.70527	48.88788	191.6336	0.9999998		0.998	
Lead	8.3495E-04	66.67343	58.79141	196.6085	0.9999994		0.998	
Magnesium	8.57105E-07	66.67526	108.9654	196.4732	0.999985		0.998	
Manganese	1.207175E-04	66.73458	13.35279	191.8416	0.999993		0.998	
Molybdenum	0.0030652	66.70055	8.536133	178.9861	0.9999983		0.998	
Nickel	0.0023114	66.6667	5.636557	176.3805	1		0.998	
Potassium	7.7775E-06	66.92156	3.74397	92.4233	0.9999977		0.998	
Selenium	3.21725E-04	66.68226	4.696605	155.8727	0.999994		0.998	
Silver	3.271E-05	66.67497	6.16875	164.8735	0.9999749		0.998	
Sodium	3.037475E-05	66.74603	2.79805	49.42007	0.9999595		0.998	
Strontium	0.001034	66.70783	10.31315	166.3253	0.9999814		0.998	
Thallium	5.7107E-04	66.74866	2.861728	136.2617	0.9999993		0.998	
Tin	7.96695E-04	66.81249	3.923652	157.8427	0.9999998		0.998	
Titanium	1.209375E-04	66.68089	14.6307	176.008	0.999997		0.998	
Vanadium	2.3807E-05	66.67372	5.01973	178.2611	0.9999986		0.998	
Zinc	2.72305E-03	66.68517	5.757907	173.3542	0.9999938		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1045001
Instrument: ME-ICP
Matrix: Water
Calibration Date: 2/9/2011 11:36:19AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	1.9732E-05	10000	2.0118E-05			500000	2.0262E-05		
Antimony	0	0	100	0.0008652	1000	9.2389E-04					10000	9.434301E-04
Arsenic	0	0	100	0.0003923	1000	4.1249E-04					10000	4.1591E-04
Barium	0	0	50	0.0110128	1000	0.010582	5000	0.0108454				
Beryllium	0	0	100	0.0019027	1000	0.0019445					10000	0.0018662
Boron	0	0	50	0.0000126	1000	1.372E-05					5000	1.3224E-05
Cadmium	0	0	100	0.010065	1000	0.0097627					10000	0.009404
Calcium	0	0	1100	0.0000315	50000	3.1466E-05					10000	
Chromium	0	0	100	0.0000232	1000	2.272E-05					10000	2.3289E-05
Cobalt	0	0	100	0.0057867	1000	0.0057584					10000	0.0059908
Copper	0	0	100	0.0000901	1000	9.029E-05					10000	8.8382E-05
Iron	0	0	5100	1.385294E-05	10000	1.3472E-05			500000	1.29236E-05	10000	
Lead	0	0	100	0.0011643	1000	0.0011677					10000	0.0012024
Magnesium	0	0	5100		50000	1.1926E-06			500000	1.2302E-06	10000	
Manganese	0	0	100	0.0001638	1000	1.6089E-04	10000	1.5545E-04			10000	
Molybdenum	0	0	100	0.0042859	1000	0.0043589					10000	0.0044491
Nickel	0	0	100	0.0033498	1000	0.0033641					10000	0.0034772
Potassium	0	0	1000	1.046E-05	10000	1.171E-05						
Selenium	0	0	100	0.0003908	1000	3.9668E-04					10000	3.9791E-04
Silver	0	0	20	0.0000465	500	0.0000463	2000	0.0000462				
Sodium	0	0	1000		50000	5.5764E-05						
Strontium	0	0	100	0.001522	1000	0.001535					10000	0.001494
Thallium	0	0	100	0.0008728	1000	8.7856E-04					10000	0.0009011
Tin	0	0	50	0.0010308	1000	0.0010732					5000	1.11544E-03
Titanium	0	0	100	0.0001769	1000	0.0001764					10000	1.7795E-04
Vanadium	0	0	100	0.0000305	1000	3.001E-05					10000	3.0426E-05
Zinc	0	0	100	0.0036438	1000	0.0036834					10000	0.0037174
Aluminum	0	0	5000	1.9732E-05	10000	2.0118E-05			500000	2.0262E-05		
Antimony	0	0	100	0.0008652	1000	9.2389E-04					10000	9.434301E-04
Arsenic	0	0	100	0.0003923	1000	4.1249E-04					10000	4.1591E-04
Barium	0	0	50	0.0110128	1000	0.010582	5000	0.0108454				

INITIAL CALIBRATION DATA

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1045001
Instrument: ME-ICP
Matrix: Water
Calibration Date: 2/9/2011 11:36:19AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium	0	0	100	0.0019027	1000	0.0019445					10000	0.0018662
Boron	0	0	50	0.0000126	1000	1.372E-05					5000	1.3224E-05
Cadmium	0	0	100	0.010065	1000	0.0097627					10000	0.009404
Calcium	0	0	1100	0.0000315	50000	3.1466E-05					10000	
Chromium	0	0	100	0.0000232	1000	2.272E-05					10000	2.3289E-05
Cobalt	0	0	100	0.0057867	1000	0.0057584					10000	0.0059908
Copper	0	0	100	0.0000901	1000	9.029E-05					10000	8.8382E-05
Iron	0	0	5100	1.385294E-05	10000	1.3472E-05			500000	1.29236E-05	10000	
Lead	0	0	100	0.0011643	1000	0.0011677					10000	0.0012024
Magnesium	0	0	5100		50000	1.1926E-06			500000	1.2302E-06	10000	
Manganese	0	0	100	0.0001638	1000	1.6089E-04	10000	1.5545E-04			10000	
Molybdenum	0	0	100	0.0042859	1000	0.0043589					10000	0.0044491
Nickel	0	0	100	0.0033498	1000	0.0033641					10000	0.0034772
Potassium	0	0	1000	1.046E-05	10000	1.171E-05						
Selenium	0	0	100	0.0003908	1000	3.9668E-04					10000	3.9791E-04
Silver	0	0	20	0.0000465	500	0.0000463	2000	0.0000462				
Sodium	0	0	1000		50000	5.5764E-05						
Strontium	0	0	100	0.001522	1000	0.001535					10000	0.001494
Thallium	0	0	100	0.0008728	1000	8.7856E-04					10000	0.0009011
Tin	0	0	50	0.0010308	1000	0.0010732					5000	1.11544E-03
Titanium	0	0	100	0.0001769	1000	0.0001764					10000	1.7795E-04
Vanadium	0	0	100	0.0000305	1000	3.001E-05					10000	3.0426E-05
Zinc	0	0	100	0.0036438	1000	0.0036834					10000	0.0037174

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1045001
Instrument: ME-ICP
Matrix: Water
Calibration Date: 2/9/2011 11:36:19AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	3.0882E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.2211E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.2153E-05										
Selenium												
Silver												
Sodium	100000	5.5641E-05	500000	5.5712E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1045001
Instrument: ME-ICP
Matrix: Water
Calibration Date: 2/9/2011 11:36:19AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	3.0882E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.2211E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.2153E-05										
Selenium												
Silver												
Sodium	100000	5.5641E-05	500000	5.5712E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1045001
Instrument: ME-ICP
Matrix: Water
Calibration Date: 2/9/2011 11:36:19AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.5028E-05	66.68329	8.638155	182.4265	1		0.998	
Antimony	6.8313E-04	66.84404	6.588233	168.4083	0.9999972		0.998	
Arsenic	3.05175E-04	66.75401	15.75705	181.3139	0.9999996		0.998	
Barium	8.11005E-03	66.70251	3.903107	170.7217	0.9999732		0.998	
Beryllium	1.42835E-03	66.70428	32.70886	196.7493	0.999983		0.998	
Boron	9.886E-06	66.82761	163.1563	198.0818	0.9999353		0.998	
Cadmium	7.307925E-03	66.7691	1.052118	62.76503	0.9999899		0.998	
Calcium	2.3462E-05	66.67763	1.760097	132.6811	0.9999965		0.998	
Chromium	1.730225E-05	66.68231	10.78963	182.321	0.9999942		0.998	
Cobalt	4.383975E-03	66.70848	3.62579	152.7509	0.9999858		0.998	
Copper	6.7193E-05	66.6789	0.9950425	38.12097	0.9999962		0.998	
Iron	1.006214E-05	66.77433	9.651797	185.4236	0.9999994		0.998	
Lead	0.0008836	66.69513	47.8322	193.8972	0.9999923		0.998	
Magnesium	9.10975E-07	66.68985	6.864313	175.5265	0.9999919		0.998	
Manganese	1.20035E-04	66.72898	8.12616	174.8718	0.9999891		0.998	
Molybdenum	3.273475E-03	66.69785	11.26484	186.0837	0.9999964		0.998	
Nickel	2.547775E-03	66.70418	3.61352	153.2587	0.9999906		0.998	
Potassium	8.58075E-06	67.18808	3.234865	117.3498	0.9999933		0.998	
Selenium	2.963475E-04	66.67489	10.73844	178.3718	0.9999996		0.998	
Silver	3.475E-05	66.66763	7.129495	167.2745	0.9999998		0.998	
Sodium	4.177925E-05	66.66677	3.184647	119.8447	0.9999999		0.998	
Strontium	1.13775E-03	66.68362	7.1114	175.6926	0.9999928		0.998	
Thallium	6.63115E-04	66.6921	12.81054	183.688	0.9999947		0.998	
Tin	8.0486E-04	66.80476	3.737202	145.1203	0.9999439		0.998	
Titanium	1.328125E-04	66.66844	15.31493	192.967	0.9999993		0.998	
Vanadium	2.2734E-05	66.67341	6.220933	174.3338	0.9999979		0.998	
Zinc	2.76115E-03	66.67556	39.46815	194.779	0.9999993		0.998	
Aluminum	1.5028E-05	66.68329	8.638155	182.4265	1		0.998	
Antimony	6.8313E-04	66.84404	6.588233	168.4083	0.9999972		0.998	
Arsenic	3.05175E-04	66.75401	15.75705	181.3139	0.9999996		0.998	
Barium	8.11005E-03	66.70251	3.903107	170.7217	0.9999732		0.998	
Beryllium	1.42835E-03	66.70428	32.70886	196.7493	0.999983		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1045001
Instrument: ME-ICP
Matrix: Water
Calibration Date: 2/9/2011 11:36:19AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	9.886E-06	66.82761	163.1563	198.0818	0.9999353		0.998	
Cadmium	7.307925E-03	66.7691	1.052118	62.76503	0.9999899		0.998	
Calcium	2.3462E-05	66.67763	1.760097	132.6811	0.9999965		0.998	
Chromium	1.730225E-05	66.68231	10.78963	182.321	0.9999942		0.998	
Cobalt	4.383975E-03	66.70848	3.62579	152.7509	0.9999858		0.998	
Copper	6.7193E-05	66.6789	0.9950425	38.12097	0.9999962		0.998	
Iron	1.006214E-05	66.77433	9.651797	185.4236	0.9999994		0.998	
Lead	0.0008836	66.69513	47.8322	193.8972	0.9999923		0.998	
Magnesium	9.10975E-07	66.68985	6.864313	175.5265	0.9999919		0.998	
Manganese	1.20035E-04	66.72898	8.12616	174.8718	0.9999891		0.998	
Molybdenum	3.273475E-03	66.69785	11.26484	186.0837	0.9999964		0.998	
Nickel	2.547775E-03	66.70418	3.61352	153.2587	0.9999906		0.998	
Potassium	8.58075E-06	67.18808	3.234865	117.3498	0.9999933		0.998	
Selenium	2.963475E-04	66.67489	10.73844	178.3718	0.9999996		0.998	
Silver	3.475E-05	66.66763	7.129495	167.2745	0.9999998		0.998	
Sodium	4.177925E-05	66.66677	3.184647	119.8447	0.9999999		0.998	
Strontium	1.13775E-03	66.68362	7.1114	175.6926	0.9999928		0.998	
Thallium	6.63115E-04	66.6921	12.81054	183.688	0.9999947		0.998	
Tin	8.0486E-04	66.80476	3.737202	145.1203	0.9999439		0.998	
Titanium	1.328125E-04	66.66844	15.31493	192.967	0.9999993		0.998	
Vanadium	2.2734E-05	66.67341	6.220933	174.3338	0.9999979		0.998	
Zinc	2.76115E-03	66.67556	39.46815	194.779	0.9999993		0.998	

Data for Wet Chemistry Forms

ANALYSIS DATA SHEET

GW0034

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/28/11 14:25
% Solids: 0.00

SDG: kirtland_002
Project: Kirtland AFB 2011
Laboratory ID: 1101211-01
Received: 01/29/11 09:30

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.0500	0.150	0.200	1	U	SM4500NH3BG	1B15018	02/15/11 16:35
18496-25-8	Sulfide		0.727	1.82	3.64	0.73	U	SM4500S2CF	1B04019	02/04/11 20:27
NA	Alkalinity, Bicarbonate (as CACO3)	107	1.00	1.00	1.00	1		SM2320B	1B02021	02/03/11 14:54
16887-00-6	Chloride	6.98	0.170	0.330	0.500	1	N	E300.0	1A31030	01/29/11 15:54
NA	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B02021	02/03/11 14:54
14797-55-8	Nitrate as N	0.0500	0.0330	0.100	0.200	1	J	E300.0	1A31030	01/29/11 15:54
14808-79-8	Sulfate as SO4	28.6	0.330	1.00	2.00	1		E300.0	1A31030	01/29/11 15:54

ANALYSIS DATA SHEET

GW0012

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/31/11 11:52
% Solids: 0.00

SDG: kirtland_002
Project: Kirtland AFB 2011
Laboratory ID: 1102004-01
Received: 02/01/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N	0.0607	0.0500	0.150	0.200	1	J	SM4500NH3BG	1B15018	02/15/11 16:36
18496-25-8	Sulfide		0.727	1.82	3.64	0.73	U	SM4500S2CF	1B04019	02/04/11 20:32
NA	Alkalinity, Bicarbonate (as CACO3)	114	1.00	1.00	1.00	1		SM2320B	1B02021	02/03/11 15:05
16887-00-6	Chloride	8.65	0.170	0.330	1.00	1	M	E300.0	1B01004	02/01/11 16:33
NA	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B02021	02/03/11 15:05
14797-55-8	Nitrate as N	0.255	0.0330	0.100	0.200	1		E300.0	1B01004	02/01/11 16:33
14808-79-8	Sulfate as SO4	30.2	0.330	1.00	2.00	1		E300.0	1B01004	02/01/11 16:33

ANALYSIS DATA SHEET

GW0013

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 01/31/11 14:40
% Solids: 0.00

SDG: kirtland_002
Project: Kirtland AFB 2011
Laboratory ID: 1102004-03
Received: 02/01/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.0500	0.150	0.200	1	U	SM4500NH3BG	1B15018	02/15/11 16:37
18496-25-8	Sulfide		0.800	2.00	4.00	0.8	U	SM4500S2CF	1B04019	02/04/11 20:33
NA	Alkalinity, Bicarbonate (as CACO3)	141	1.00	1.00	1.00	1		SM2320B	1B02021	02/03/11 11:15
16887-00-6	Chloride	99.4	0.170	0.330	1.00	1	M	E300.0	1B01004	02/01/11 16:51
NA	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B02021	02/03/11 11:15
14797-55-8	Nitrate as N	3.26	0.0330	0.100	0.200	1		E300.0	1B01004	02/01/11 16:51
14808-79-8	Sulfate as SO4	120	0.330	1.00	2.00	1		E300.0	1B01004	02/01/11 16:51

ANALYSIS DATA SHEET

GW0035

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/02/11 09:55
% Solids: 0.00

SDG: kirtland_002
Project: Kirtland AFB 2011
Laboratory ID: 1102024-01
Received: 02/03/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B18024	02/21/11 10:30
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U	SM4500S2CF	1B07011	02/07/11 16:24
NA	Alkalinity, Bicarbonate (as CACO3)	100	1.00	1.00	1.00	1		SM2320B	1B09015	02/11/11 21:33
16887-00-6	Chloride	32.3	0.170	0.330	1.00	1	M	E300.0	1B03417	02/03/11 20:15
NA	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B09015	02/11/11 21:33
14797-55-8	Nitrate as N	0.116	0.0330	0.100	0.200	1	J	E300.0	1B03417	02/03/11 20:15
14808-79-8	Sulfate as SO4	26.0	0.330	1.00	2.00	1		E300.0	1B03417	02/03/11 20:15

ANALYSIS DATA SHEET

GW0039

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/02/11 12:05
% Solids: 0.00

SDG: kirtland_002
Project: Kirtland AFB 2011
Laboratory ID: 1102024-03
Received: 02/03/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B18024	02/21/11 10:31
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U	SM4500S2CF	1B07011	02/07/11 16:24
NA	Alkalinity, Bicarbonate (as CACO3)	110	1.00	1.00	1.00	1		SM2320B	1B09015	02/11/11 21:42
16887-00-6	Chloride	23.8	0.170	0.330	1.00	1	M	E300.0	1B03417	02/03/11 20:32
NA	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B09015	02/11/11 21:42
14797-55-8	Nitrate as N	0.344	0.0330	0.100	0.200	1		E300.0	1B03417	02/03/11 20:32
14808-79-8	Sulfate as SO4	25.9	0.330	1.00	2.00	1		E300.0	1B03417	02/03/11 20:32

ANALYSIS DATA SHEET

GW0008

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/03/11 12:42
% Solids: 0.00

SDG: kirtland_002
Project: Kirtland AFB 2011
Laboratory ID: 1102028-01
Received: 02/04/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B18024	02/21/11 10:32
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U	SM4500S2CF	1B07011	02/07/11 16:25
NA	Alkalinity, Bicarbonate (as CACO3)	130	1.00	1.00	1.00	1		SM2320B	1B09015	02/11/11 21:48
16887-00-6	Chloride	11.5	0.170	0.330	1.00	1	M	E300.0	1B16011	02/16/11 16:40
NA	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B09015	02/11/11 21:48
14797-55-8	Nitrate as N	0.686	0.0330	0.100	0.200	1		E300.0	1B04018	02/04/11 17:04
14808-79-8	Sulfate as SO4	33.9	0.330	1.00	2.00	1		E300.0	1B04018	02/04/11 17:04

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_002
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 0J29503

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
0J29503-ICV1	Chloride	4.800	4.639	96.6	mg/L	+/- 10.00%
	Nitrate as N	3.616	3.531	97.6	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	23.53	98.0	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_002
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B03814

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B03814-CCV1	Chloride	25.00	26.33	105	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.548	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.45	106	mg/L	+/- 10.00%
1B03814-CCV2	Chloride	25.00	26.60	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.591	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.46	106	mg/L	+/- 10.00%
1B03814-CCV3	Chloride	25.00	26.42	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.573	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.35	105	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: kirtland_002
Project: Kirtland AFB 2011
Calibration: 1046003
Sequence: 1B04620

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04620-ICV1	Ammonia as N	2.000	2.187	109	mg/L	+/- 10.00%
1B04620-CCV1	Ammonia as N	2.000	2.173	109	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_002
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B04711

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04711-CCV1	Nitrate as N	2.500	2.586	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.68	107	mg/L	+/- 10.00%
1B04711-CCV2	Nitrate as N	2.500	2.580	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.33	105	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_002
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B04713

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04713-CCV1	Chloride	25.00	26.48	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.553	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.66	107	mg/L	+/- 10.00%
1B04713-CCV2	Chloride	25.00	26.84	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.581	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.78	107	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_002
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B04808

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04808-CCV1	Chloride	25.00	26.46	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.601	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	27.14	109	mg/L	+/- 10.00%
1B04808-CCV2	Chloride	25.00	26.46	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.584	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.40	106	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_002
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B04816

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04816-CCV1	Chloride	25.00	26.72	107	mg/L	+/- 10.00%
1B04816-CCV2	Chloride	25.00	26.76	107	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: kirtland_002
Project: Kirtland AFB 2011
Calibration: 1046003
Sequence: 1B05214

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B05214-ICV1	Ammonia as N	2.000	2.190	110	mg/L	+/- 10.00%
1B05214-CCV1	Ammonia as N	2.000	2.160	108	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 0J29503

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
0J29503-CRL2	Chloride	1.000	0.8730	87.3	mg/L	75 - 125
	Nitrate as N	0.1000	0.09500	95.0	mg/L	75 - 125
	Sulfate as SO4	1.000	1.023	102	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 1B03814

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B03814-CRL1	Chloride	1.000	0.9100	91.0	mg/L	75 - 125
	Nitrate as N	0.1000	0.09600	96.0	mg/L	75 - 125
	Sulfate as SO4	1.000	1.209	121	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_002

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 0295001

Sequence: 1B04711

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B04711-CRL1	Nitrate as N	0.1000	0.09800	98.0	mg/L	75 - 125
	Sulfate as SO4	1.000	1.173	117	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 1B04713

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B04713-CRL1	Chloride	0.5000	0.3980	79.6	mg/L	75 - 125
	Nitrate as N	0.05000	0.05300	106	mg/L	75 - 125
	Sulfate as SO4	0.5000	0.5760	115	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 1B04808

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B04808-CRL1	Chloride	1.000	0.9460	94.6	mg/L	75 - 125
	Nitrate as N	0.1000	0.1000	100	mg/L	75 - 125
1B04808-CRL2	Sulfate as SO4	1.000	1.067	107	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 1B04816

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B04816-CRL1	Chloride	1.000	0.9390	93.9	mg/L	75 - 125

METHOD BLANKS

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_002

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1A31030

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1A31030-BLK1	Chloride	-0.0600	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_002

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B01004

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B01004-BLK1	Chloride	-0.0970	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_002

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B02021

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B02021-BLK1	Alkalinity, Total (as CACO3)	0.817	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_002

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B03417

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B03417-BLK1	Chloride	-0.0580	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0990	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_002

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B04018

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04018-BLK1	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0860	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_002

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B04019

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04019-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_002

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B07011

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B07011-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_002

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B09015

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B09015-BLK1	Alkalinity, Total (as CACO3)	0.817	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B15018

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B15018-BLK1	Ammonia as N	0.00242	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_002

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B16011

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B16011-BLK1	Chloride	0.00200	0.170	0.500	mg/L	U	E300.0

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B18024

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B18024-BLK1	Ammonia as N	-0.0447	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 0J29503
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
0J29503-ICB1	Chloride	0.01700	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.000	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.08000	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B03814
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B03814-CCB1	Chloride	-0.0970	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1B03814-CCB2	Chloride	-0.105	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1B03814-CCB3	Chloride	-0.0810	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04620
Calibration: 1046003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04620-ICB1	Ammonia as N	-0.01197	0.110	0.300	mg/L	U	SM4500NH3BG
1B04620-CCB1	Ammonia as N	-0.0142	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04711
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04711-CCB1	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0840	0.330	2.00	mg/L	U	E300.0
1B04711-CCB2	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0960	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04713
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04713-CCB1	Chloride	-0.0810	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1B04713-CCB2	Chloride	-0.0610	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04808
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04808-CCB1	Chloride	-0.0670	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.160	0.330	2.00	mg/L	U	E300.0
1B04808-CCB2	Chloride	0.0220	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.0150	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.112	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04816
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04816-CCB1	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
1B04816-CCB2	Chloride	-0.00300	0.170	0.500	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05214
Calibration: 1046003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B05214-ICB1	Ammonia as N	-0.01063	0.110	0.300	mg/L	U	SM4500NH3BG
1B05214-CCB1	Ammonia as N	-0.0143	0.110	0.300	mg/L	U	SM4500NH3BG

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0034

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

Batch: 1A31030

% Solids:

SDG: kirtland_002

Project: Kirtland AFB 2011

Source Sample Name: **1101211-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	6.982	36.91	108		80 - 120
Nitrate as N	2.778	0.05000	2.922	103		80 - 120
Sulfate as SO4	27.78	28.57	57.83	105		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	41.63	125	12.0	N	20	80 - 120
Nitrate as N	2.778	3.373	120	14.3		20	80 - 120
Sulfate as SO4	27.78	61.80	120	6.64		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0013

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B02021
% Solids:
Source Sample Name: **1102004-03**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	141.3	260.1	107		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	257.8	105	0.876		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0008

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

Batch: 1B04018

% Solids:

SDG: kirtland_002

Project: Kirtland AFB 2011

Source Sample Name: **1102028-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Nitrate as N	2.778	0.6860	3.539	103		80 - 120
Sulfate as SO4	27.78	33.92	62.60	103		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Nitrate as N	2.778	3.576	104	1.03		20	80 - 120
Sulfate as SO4	27.78	63.02	105	0.679		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0008

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B16011
% Solids:
Source Sample Name: **1102028-01RE1**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	11.55	42.49	111		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	41.62	108	2.08		20	80 - 120

DUPLICATES

GW0034

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 1A31030-DUP1
Batch: 1A31030
Lab Source ID: 1101211-01
Preparation: WC_PREP_ANIONS_W
Initial/Final: 5 mL / 5 mL
Source Sample Name: GW0034
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20		6.998	0.229		E300.0
Nitrate as N	20	0.0500 J	0.200 J	8.33		E300.0
Sulfate as SO4	20	28.6	28.58	0.0140		E300.0

DUPLICATES

GW0008

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1B04018
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0008

SDG: kirtland_002
Project: Kirtland AFB 2011
Laboratory ID: 1B04018-DUP1
Lab Source ID: 1102028-01
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Nitrate as N	20	0.686	0.6910	0.726		E300.0
Sulfate as SO4	20	33.9	34.13	0.644		E300.0

DUPLICATES

GW0008

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1B16011
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0008

SDG: kirtland_002
Project: Kirtland AFB 2011
Laboratory ID: 1B16011-DUP3
Lab Source ID: 1102028-01RE1
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	11.5	11.56	0.0952		E300.0

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1A31030	Laboratory ID:	1A31030-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.977	104	90 - 110
Nitrate as N	3.616	3.673	102	90 - 110
Sulfate as SO4	24.00	25.18	105	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B01004	Laboratory ID:	1B01004-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.025	105	90 - 110
Nitrate as N	3.616	3.703	102	90 - 110
Sulfate as SO4	24.00	25.46	106	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B02021	Laboratory ID:	1B02021-BS1
Preparation:	pNone	Initial/Final:	5 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	1000	1048	105	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B03417	Laboratory ID:	1B03417-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.162	108	90 - 110
Nitrate as N	3.616	3.730	103	90 - 110
Sulfate as SO4	24.00	25.60	107	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B04018	Laboratory ID:	1B04018-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Nitrate as N	3.616	3.676	102	90 - 110
Sulfate as SO4	24.00	25.66	107	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B04019	Laboratory ID:	1B04019-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1413	1167	82.6	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B07011	Laboratory ID:	1B07011-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1307	1100	84.2	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1307	1083	82.9	1.53	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B09015	Laboratory ID:	1B09015-BS1
Preparation:	pNone	Initial/Final:	5 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	1000	1060	106	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15018	Laboratory ID:	1B15018-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	5.094	102	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B16011	Laboratory ID:	1B16011-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.266	110	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B18024	Laboratory ID:	1B18024-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	4.477	89.5	80 - 120

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_002

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:**

Analyte	MDL	MRL	Units	Method
Alkalinity, Bicarbonate (as CACO3)	1.00	1.00	mg/L	SM2320B
Alkalinity, Carbonate (as CACO3)	1.00	1.00	mg/L	SM2320B
Sulfide	0.800	4.00	mg/L	SM4500S2CF

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_002

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** WC-IC

Analyte	MDL	MRL	Units	Method
Chloride	0.170	0.500	mg/L	E300.0
Nitrate as N	0.0330	0.200	mg/L	E300.0
Sulfate as SO4	0.330	2.00	mg/L	E300.0

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_002

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** WC-Lachat

Analyte	MDL	MRL	Units	Method
Ammonia as N	0.110	0.300	mg/L	SM4500NH3BG

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1A31030 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0034	1101211-01	01/29/11 10:30	5.00	5.00
GW0034	1101211-01	01/29/11 10:30	5.00	5.00
Blank	1A31030-BLK1	01/29/11 10:30	5.00	5.00
LCS	1A31030-BS1	01/29/11 10:30	5.00	5.00
GW0034	1A31030-DUP1	01/29/11 10:30	5.00	5.00
GW0034	1A31030-MS1	01/29/11 10:30	22.50	25.00
GW0034	1A31030-MSD1	01/29/11 10:30	22.50	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B01004 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0012	1102004-01	02/01/11 09:58	5.00	5.00
GW0012	1102004-01	02/01/11 09:58	5.00	5.00
GW0013	1102004-03	02/01/11 09:58	5.00	5.00
GW0013	1102004-03	02/01/11 09:58	5.00	5.00
Blank	1B01004-BLK1	02/01/11 09:58	5.00	5.00
LCS	1B01004-BS1	02/01/11 09:58	5.00	5.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B02021 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0034	1101211-01	02/03/11 08:00	25.00	25.00
GW0012	1102004-01	02/03/11 08:00	25.00	25.00
GW0013	1102004-03	02/03/11 08:00	25.00	25.00
Blank	1B02021-BLK1	02/03/11 08:00	25.00	25.00
LCS	1B02021-BS1	02/03/11 08:00	5.00	25.00
GW0013	1B02021-MS1	02/03/11 08:00	22.50	25.00
GW0013	1B02021-MSD1	02/03/11 08:00	22.50	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B03417 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0035	1102024-01	02/03/11 18:21	5.00	5.00
GW0035	1102024-01	02/03/11 18:21	5.00	5.00
GW0039	1102024-03	02/03/11 18:21	5.00	5.00
GW0039	1102024-03	02/03/11 18:21	5.00	5.00
Blank	1B03417-BLK1	02/03/11 18:21	5.00	5.00
LCS	1B03417-BS1	02/03/11 18:21	5.00	5.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B04018 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0008	1102028-01	02/04/11 14:58	5.00	5.00
GW0008	1102028-01	02/04/11 14:58	5.00	5.00
Blank	1B04018-BLK1	02/04/11 14:58	5.00	5.00
LCS	1B04018-BS1	02/04/11 14:58	5.00	5.00
GW0008	1B04018-DUP1	02/04/11 14:58	5.00	5.00
GW0008	1B04018-MS1	02/04/11 14:58	22.50	25.00
GW0008	1B04018-MSD1	02/04/11 14:58	22.50	25.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B04019 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0034	1101211-01	02/04/11 16:59	275.00	200.00
GW0012	1102004-01	02/04/11 16:59	275.00	200.00
GW0013	1102004-03	02/04/11 16:59	250.00	200.00
Blank	1B04019-BLK1	02/04/11 16:59	250.00	200.00
LCS	1B04019-BS1	02/04/11 16:59	3.00	250.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B07011 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0035	1102024-01	02/07/11 10:38	270.00	200.00
GW0039	1102024-03	02/07/11 10:38	270.00	200.00
GW0008	1102028-01	02/07/11 10:38	270.00	200.00
Blank	1B07011-BLK1	02/07/11 10:38	250.00	200.00
LCS	1B07011-BS1	02/07/11 10:38	3.00	250.00
LCS Dup	1B07011-BSD1	02/07/11 10:38	3.00	250.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B09015 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0035	1102024-01	02/09/11 16:23	25.00	25.00
GW0039	1102024-03	02/09/11 16:23	25.00	25.00
GW0008	1102028-01	02/09/11 16:23	25.00	25.00
Blank	1B09015-BLK1	02/09/11 16:23	25.00	25.00
LCS	1B09015-BS1	02/09/11 16:23	5.00	25.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B15018 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0034	1101211-01	02/15/11 15:00	100.00	100.00
GW0012	1102004-01	02/15/11 15:00	100.00	100.00
GW0013	1102004-03	02/15/11 15:00	100.00	100.00
Blank	1B15018-BLK1	02/15/11 15:00	100.00	100.00
LCS	1B15018-BS1	02/15/11 15:00	100.00	100.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B16011 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0008	1102028-01RE1	02/04/11 14:58	5.00	5.00
Blank	1B16011-BLK1	02/16/11 14:01	5.00	5.00
LCS	1B16011-BS1	02/16/11 14:01	5.00	5.00
GW0008	1B16011-DUP3	02/16/11 14:01	5.00	5.00
GW0008	1B16011-MS3	02/16/11 14:01	22.50	25.00
GW0008	1B16011-MSD3	02/16/11 14:01	22.50	25.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: kirtland_002

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B18024 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0035	1102024-01	02/18/11 16:49	100.00	100.00
GW0039	1102024-03	02/18/11 16:49	100.00	100.00
GW0008	1102028-01	02/18/11 16:49	100.00	100.00
Blank	1B18024-BLK1	02/18/11 16:49	100.00	100.00
LCS	1B18024-BS1	02/18/11 16:49	100.00	100.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence:
Instrument:
Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1B02021-BLK1	020311-004	02/03/11 09:42
LCS	1B02021-BS1	020311-003	02/03/11 09:58
GW0013	1B02021-MS1	020311-025	02/03/11 10:20
GW0013	1B02021-MSD1	020311-026	02/03/11 10:48
LCS	1B09015-BS1	021011-003	02/11/11 20:35
Blank	1B09015-BLK1	021011-004	02/11/11 20:48

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_002

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	1B04019-BS1	020411-002	02/04/11 20:26
Blank	1B04019-BLK1	020411-003	02/04/11 20:26
Blank	1B07011-BLK1	020711-004	02/07/11 16:29
LCS Dup	1B07011-BSD1	020711-003	02/07/11 16:30
LCS	1B07011-BS1	020711-002	02/07/11 16:30

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 0J29503
Instrument: WC-IC
Calibration: 0295001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0J29503-CAL1	102110curve-057	10/21/10 10:28
Cal Standard	0J29503-CAL2	102110curve-058	10/21/10 10:45
Cal Standard	0J29503-CAL3	102110curve-059	10/21/10 11:02
Cal Standard	0J29503-CAL4	102110curve-060	10/21/10 11:20
Cal Standard	0J29503-CAL5	102110curve-061	10/21/10 11:37
Cal Standard	0J29503-CAL6	102110curve-062	10/21/10 11:55
Cal Standard	0J29503-CAL7	102110curve-063	10/21/10 12:12
Cal Standard	0J29503-CAL8	102110curve-064	10/21/10 12:29
Initial Cal Check	0J29503-ICV1	102110curve-065	10/21/10 12:47
Initial Cal Blank	0J29503-ICB1	102110curve-066	10/21/10 13:04
Instrument RL Check	0J29503-CRL2	102110curve-068	10/21/10 13:39

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B03814
Instrument: WC-IC
Calibration: 0295001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B03814-CCV1	020111-002	02/01/11 11:03
Calibration Blank	1B03814-CCB1	020111-003	02/01/11 11:20
Instrument RL Check	1B03814-CRL1	020111-004	02/01/11 11:37
LCS	1B01004-BS1	020111-005	02/01/11 11:55
Blank	1B01004-BLK1	020111-006	02/01/11 12:12
Calibration Check	1B03814-CCV2	020111-011	02/01/11 13:39
Calibration Blank	1B03814-CCB2	020111-012	02/01/11 13:57
GW0012	1102004-01	020111-020	02/01/11 16:33
GW0013	1102004-03	020111-021	02/01/11 16:51
Calibration Check	1B03814-CCV3	020111-022	02/01/11 17:08
Calibration Blank	1B03814-CCB3	020111-023	02/01/11 17:26

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04620
Instrument: WC-Lachat
Calibration: 1046003

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B04620-CAL1	M_2-15-2011_04-19-55PM-00	02/15/11 16:21
Cal Standard	1B04620-CAL2	M_2-15-2011_04-19-55PM-00	02/15/11 16:22
Cal Standard	1B04620-CAL3	M_2-15-2011_04-19-55PM-00	02/15/11 16:23
Cal Standard	1B04620-CAL4	M_2-15-2011_04-19-55PM-00	02/15/11 16:24
Cal Standard	1B04620-CAL5	M_2-15-2011_04-19-55PM-00	02/15/11 16:25
Cal Standard	1B04620-CAL7	M_2-15-2011_04-19-55PM-00	02/15/11 16:26
Cal Standard	1B04620-CAL6	M_2-15-2011_04-19-55PM-00	02/15/11 16:26
Cal Standard	1B04620-CAL8	M_2-15-2011_04-19-55PM-00	02/15/11 16:27
Initial Cal Check	1B04620-ICV1	M_2-15-2011_04-19-55PM-00	02/15/11 16:28
Initial Cal Blank	1B04620-ICB1	M_2-15-2011_04-19-55PM-01	02/15/11 16:29
Blank	1B15018-BLK1	M_2-15-2011_04-19-55PM-01	02/15/11 16:30
LCS	1B15018-BS1	M_2-15-2011_04-19-55PM-01	02/15/11 16:31
GW0034	1101211-01	M_2-15-2011_04-19-55PM-01	02/15/11 16:35
GW0012	1102004-01	M_2-15-2011_04-19-55PM-01	02/15/11 16:36
GW0013	1102004-03	M_2-15-2011_04-19-55PM-01	02/15/11 16:37
Calibration Check	1B04620-CCV1	M_2-15-2011_04-19-55PM-02	02/15/11 16:40
Calibration Blank	1B04620-CCB1	M_2-15-2011_04-19-55PM-02	02/15/11 16:41

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04711	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04711-CCV1	020411-002	02/04/11 15:37
Calibration Blank	1B04711-CCB1	020411-003	02/04/11 15:54
Instrument RL Check	1B04711-CRL1	020411-004	02/04/11 16:12
LCS	1B04018-BS1	020411-005	02/04/11 16:29
Blank	1B04018-BLK1	020411-006	02/04/11 16:47
GW0008	1102028-01	020411-007	02/04/11 17:04
GW0008	1B04018-MS1	020411-008	02/04/11 17:21
GW0008	1B04018-MSD1	020411-009	02/04/11 17:39
GW0008	1B04018-DUP1	020411-010	02/04/11 17:56
Calibration Check	1B04711-CCV2	020411-014	02/04/11 19:06
Calibration Blank	1B04711-CCB2	020411-015	02/04/11 19:23

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04713	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04713-CCV1	012911-002	01/29/11 13:17
Calibration Blank	1B04713-CCB1	012911-003	01/29/11 13:35
Instrument RL Check	1B04713-CRL1	012911-004	01/29/11 13:52
LCS	1A31030-BS1	012911-006	01/29/11 14:27
Blank	1A31030-BLK1	012911-007	01/29/11 14:44
GW0034	1101211-01	012911-011	01/29/11 15:54
GW0034	1A31030-MS1	012911-012	01/29/11 16:11
GW0034	1A31030-MSD1	012911-013	01/29/11 16:29
GW0034	1A31030-DUP1	012911-014	01/29/11 16:46
Calibration Check	1B04713-CCV2	012911-016	01/29/11 17:21
Calibration Blank	1B04713-CCB2	012911-017	01/29/11 17:39

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_002
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04808	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04808-CCV1	020311-002	02/03/11 18:48
Calibration Blank	1B04808-CCB1	020311-003	02/03/11 19:05
Instrument RL Check	1B04808-CRL1	020311-004	02/03/11 19:22
LCS	1B03417-BS1	020311-005	02/03/11 19:40
Blank	1B03417-BLK1	020311-006	02/03/11 19:57
GW0035	1102024-01	020311-007	02/03/11 20:15
GW0039	1102024-03	020311-008	02/03/11 20:32
Instrument RL Check	1B04808-CRL2	020311-009	02/03/11 20:49
Calibration Check	1B04808-CCV2	020311-010	02/03/11 21:07
Calibration Blank	1B04808-CCB2	020311-011	02/03/11 21:24

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04816
Instrument: WC-IC
Calibration: 0295001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04816-CCV1	021611-002	02/16/11 14:56
Calibration Blank	1B04816-CCB1	021611-003	02/16/11 15:13
Instrument RL Check	1B04816-CRL1	021611-004	02/16/11 15:31
LCS	1B16011-BS1	021611-005	02/16/11 15:48
Blank	1B16011-BLK1	021611-006	02/16/11 16:06
GW0008	1102028-01RE1	021611-008	02/16/11 16:40
GW0008	1B16011-MS3	021611-009	02/16/11 16:58
GW0008	1B16011-MSD3	021611-010	02/16/11 17:15
GW0008	1B16011-DUP3	021611-011	02/16/11 17:33
Calibration Check	1B04816-CCV2	021611-014	02/16/11 18:25
Calibration Blank	1B04816-CCB2	021611-015	02/16/11 18:42

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_002
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05214
Instrument: WC-Lachat
Calibration: 1046003

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B05214-CAL1	M_2-21-2011_10-17-54AM-00	02/21/11 10:19
Cal Standard	1B05214-CAL2	M_2-21-2011_10-17-54AM-00	02/21/11 10:20
Cal Standard	1B05214-CAL3	M_2-21-2011_10-17-54AM-00	02/21/11 10:21
Cal Standard	1B05214-CAL4	M_2-21-2011_10-17-54AM-00	02/21/11 10:22
Cal Standard	1B05214-CAL5	M_2-21-2011_10-17-54AM-00	02/21/11 10:23
Cal Standard	1B05214-CAL7	M_2-21-2011_10-17-54AM-00	02/21/11 10:24
Cal Standard	1B05214-CAL6	M_2-21-2011_10-17-54AM-00	02/21/11 10:24
Cal Standard	1B05214-CAL8	M_2-21-2011_10-17-54AM-00	02/21/11 10:25
Initial Cal Check	1B05214-ICV1	M_2-21-2011_10-17-54AM-00	02/21/11 10:26
Initial Cal Blank	1B05214-ICB1	M_2-21-2011_10-17-54AM-01	02/21/11 10:27
Blank	1B18024-BLK1	M_2-21-2011_10-17-54AM-01	02/21/11 10:28
LCS	1B18024-BS1	M_2-21-2011_10-17-54AM-01	02/21/11 10:29
GW0035	1102024-01	M_2-21-2011_10-17-54AM-01	02/21/11 10:30
GW0039	1102024-03	M_2-21-2011_10-17-54AM-01	02/21/11 10:31
GW0008	1102028-01	M_2-21-2011_10-17-54AM-01	02/21/11 10:32
Calibration Check	1B05214-CCV1	M_2-21-2011_10-17-54AM-02	02/21/11 10:40
Calibration Blank	1B05214-CCB1	M_2-21-2011_10-17-54AM-02	02/21/11 10:41

ANALYTICAL SUMMARY DATA PACKAGE
SDG # KIRTLAND_003

PROJECT NAME: KIRTLAND AFB 2011
PROJECT LOCATION: ALBUQUERQUE, NEW MEXICO

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Original Report Date: February 28, 2011
Report Revision #: N/A
Revision Date: N/A
Total # of Pages: 526

THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Technical Lab Director, Mr. Rick Davis, is responsible for the final data produced and reported. His signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.

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Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

As per the client, SW8270C to be analyzed on extra 1L Diesel Range Organic bottle received for sample GW0033. Sample GW0033 was received outside of the EPA recommended holding time for Nitrate as N; however, as per the client the sample is to be analyzed and qualified. No sample containers were received for the sample listed on the CoC as GW0023; however, sample containers were received with sample IDs listed as GW0021 which was not listed on the CoC. As per the client, the sample containers with the ID GW0021 are the sample ID GW0023.

Changes to the Revision
This is an original submittal of the final report package.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8260B:
The initial calibration verification 1B04204-ICV1 exceeded criteria with a positive bias

for Dichlorodifluoromethane.

The batch spikes associated to batch 1B14003 exceeded criteria with a negative bias for 2,2-Dichloropropane and with a positive bias for Bromodichloromethane. The batch spikes associated to batches 1B15001 and 1B15004 exceeded criteria with a positive bias for Bromodichloromethane. The batch spikes associated to batch 1B15006 exceeded recovery criteria with a positive bias for Bromodichloromethane and exceeded relative percent difference criteria for Bromomethane.

The matrix spikes associated to sample 1102088-03 exceeded criteria with a positive bias for Bromodichloromethane and Dichlorodifluoromethane.

The method blanks 1B12004-BLK1, 1B14003-BLK1, 1B15004-BLK1, and 1B15006-BLK1 have positive results for Hexachlorobutadiene.

The continuing calibration verifications exceeded criteria in 1B04509-CCV1 with a positive bias for Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Dibromomethane, Dichlorodifluoromethane, 1,2-Dichloroethane, Methyl t-Butyl Ether, 1,2,3-Trichlorobenzene, and 1,1,1-Trichloroethane, in 1B04609-CCV1 with a positive bias for Acetone, Bromoform, 1,3-Dichlorobenzene, Dichlorodifluoromethane, 1,2-Dichloroethane, 2-Hexanone, Naphthalene, 4-Methyl-2-pentanone, and 1,2,3-Trichlorobenzene, in 1B04702-CCV1 with a positive bias for Acetone, Bromodichloromethane, Dichlorodifluoromethane, 4-Methyl-2-pentanone, and 1,1,1,2-Tetrachloroethane, in 1B04703-CCV1 with a positive bias for Bromodichloromethane, Bromoform, Dichlorodifluoromethane, and 1,1,1,2-Tetrachloroethane, and in 1B04705-CCV1 exceeded criteria with a positive bias for Acetone, Dichlorodifluoromethane, 1,2-Dichloroethane, and 4-Methyl-2-pentanone.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8270C:
The batch spikes associated to batch 1B11003 exceeded recovery criteria with a positive bias for Butylbenzylphthalate and 4-Nitroaniline, with a negative bias for Caprolactam, Hexachlorobutadiene, and Hexachloroethane and exceeded relative percent difference criteria for Hexachlorobutadiene and Hexachlorocyclopentadiene.

The continuing calibration verification 1B04714-CCV1 exceeded criteria with a negative bias for Benzaldehyde and Benzidine and with a positive bias for 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol, 4-Nitroaniline, and Pyrene.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8015B GRO:
No anomalies or deviations are noted.

SW8015B DRO:
No anomalies or deviations are noted.

SW8011 EDB:
No anomalies or deviations are noted.

SW6010B:
The continuing calibration verification 1B04817-CCV4 exceeded criteria with a positive bias for Sodium.

The matrix spikes associated to sample 1102088-03 exceeded criteria for Calcium, Magnesium and Sodium; however, the concentration for these compounds in the parent sample were greater than 4 times the amount spiked.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Wet Chemistry:
Samples 1102062-01, -03, -06, 1102063-01, 1102076-01, -03, 1102088-01, -03, 1102097-01, and -02 are qualified with an M for Chloride to indicate that the LOQ was raised due to interference.

Sample 1102063-01 was received after the EPA recommended holding time for Nitrate as N.

The continuing calibration blank 1B04809-CCB2 has a positive result for Chloride.

The matrix spikes associated to sample 1102088-03 exceeded criteria with a negative bias for Sulfide. The matrix spikes associated to sample 1102063-01 exceeded criteria with a positive bias for Alkalinity, Total (as CACO3).

The matrix spike duplicate associated to sample 1101211-01 exceeded criteria with a positive bias for Chloride.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Data Qualifiers
As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix. For DoD QSM 4.1 reporting purposes, this definition is also applied to the reported Detection Limit (DL).

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM 4.1 revisions as the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

LOQ: The Limit of Quantitation is the minimum level, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. This term is further clarified within the DoD QSM 4.1 as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

*****: An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL.

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL has been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the DL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:

The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "**RE"** implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity is authorized to sign this Statement of Data Authenticity.

_____
Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

Sample Receipt Information

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW009

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 07 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182313

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification:
Non-hazard X Flammable ___ Skin Irritant ___ Poison B ___ Radiological ___ Unknown ___

Sample Disposal:
Return to Client ___ Disposal by Lab X Archive ___ (mos.)

1. Relinquished By (Signature/Affiliation) Mark Lyon Shaw ENV. Date: 2-7-2011 Time: 1800
1. Received By (Signature/Affiliation) Date: Time:
2. Relinquished By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) 2.6°C Date: 2-8-11 Time: 08:45

Comments:

1102062

Sample No	Sample Name	Sample Date	Sample Time	Container	Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0014	KAFB10613-WG-GW0014-REG	07 FEB 2011	11:15	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0014	KAFB10613-WG-GW0014-REG	07 FEB 2011	11:15	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0014	KAFB10613-WG-GW0014-REG	07 FEB 2011	11:15	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0014	KAFB10613-WG-GW0014-REG	07 FEB 2011	11:15	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0014	KAFB10613-WG-GW0014-REG	07 FEB 2011	11:15	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0014	KAFB10613-WG-GW0014-REG	07 FEB 2011	11:15	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
GW0014	KAFB10613-WG-GW0014-REG	07 FEB 2011	11:15	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-02 GW0014	KAFB10613-WG-GW0014-REG	07 FEB 2011	11:15	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by			N		

KIRTLAND_003 Summ Package

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW009

11/02062

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-61	GW0014	KAFB10613-WG-GW0014-REG	07 FEB 2011	11:15	250 mL HDPE	1	HNO3<pH 2	SW846 6010C Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-63	GW0028	KAFB10626-WG-GW0028-REG	07 FEB 2011	15:16	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0028	KAFB10626-WG-GW0028-REG	07 FEB 2011	15:16	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0028	KAFB10626-WG-GW0028-REG	07 FEB 2011	15:16	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0028	KAFB10626-WG-GW0028-REG	07 FEB 2011	15:16	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0028	KAFB10626-WG-GW0028-REG	07 FEB 2011	15:16	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-04	GW0028	KAFB10626-WG-GW0028-REG	07 FEB 2011	15:16	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-63	GW0028	KAFB10626-WG-GW0028-REG	07 FEB 2011	15:16	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
	GW0028	KAFB10626-WG-GW0028-REG	07 FEB 2011	15:16	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0028	KAFB10626-WG-GW0028-REG	07 FEB 2011	15:16	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0028	KAFB10626-WG-GW0028-REG	07 FEB 2011	15:16	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-06	GW0029	KAFB10626-WG-GW0029-FD	07 FEB 2011	15:16	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0029	KAFB10626-WG-GW0029-FD	07 FEB 2011	15:16	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0029	KAFB10626-WG-GW0029-FD	07 FEB 2011	15:16	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0029	KAFB10626-WG-GW0029-FD	07 FEB 2011	15:16	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0029	KAFB10626-WG-GW0029-FD	07 FEB 2011	15:16	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-07	GW0029	KAFB10626-WG-GW0029-FD	07 FEB 2011	15:16	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-04	GW0029	KAFB10626-WG-GW0029-FD	07 FEB 2011	15:16	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
	GW0029	KAFB10626-WG-GW0029-FD	07 FEB 2011	15:16	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0029	KAFB10626-WG-GW0029-FD	07 FEB 2011	15:16	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0029	KAFB10626-WG-GW0029-FD	07 FEB 2011	15:16	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
-05	GW8009-TB	FIELDQC-BW-GW8009-TB-TB	07 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

KIRTLAND_003 Summ Package

AP 2-8-11

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102062 Number of Coolers: 1 of 2

Client: SHAW E&I INC. Project: KIRTLAND AFB

Date/Time Received: 2.8.11 08:45 Date cooler(s) opened: 2.8.11

Opened By (print): Russ Townsend (signature): Russ Townsend

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 7319

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 2.7.11 Seal Initials: ML

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 2.9 °C Correction Factor: -0.3 °C Final Value: 2.6 °C

Dates samples were logged-in: 2-8-11

9. Initial this form to acknowledge login of sample(s): (Name): Chris (Initial): CL

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	Yes	No	(N/A)
16. Was residual chlorine present in any applicable sample containers?	Yes	No	(N/A)
17. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
18. Was headspace present in any included VOA vials?	Yes	No	(N/A)

If Non-Conformance issues were present, list by sample ID: _____

- ph < 2 for all metals + ammonia samples
- ph > 9 for all sulfides

CP 2-9-11

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 10206#2 Number of Coolers: 2 of 2

Client: SHAW E&I INC. Project: KIRTLAND AFB

Date/Time Received: 2.8.11 08:45 Date cooler(s) opened: 2.8.11

Opened By (print): Russ Townsend (signature): Russ Townsend

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 2313

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 2.7.11 Seal Initials: ML

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 2.5 °C Correction Factor: -0.3 °C Final Value: 2.2 °C

Dates samples were logged-in: See 1 of 2

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	(Yes)	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	(N/A)
17. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
18. Was headspace present in any included VOA vials?	Yes	(No)	N/A

If Non-Conformance issues were present, list by sample ID: _____

Kim Kostzer

From: Moss, Pamela J [pamela.moss@shawgrp.com]
Sent: Thursday, February 10, 2011 11:33 AM
To: kkostzer@empirlabs.com
Subject: SVOC analysis required on 2 samples for Kirtland

Kim ,
Plz check immediately if we are able to run 8270 analysis on the 1-L, DRO sample container for these 2 samples submitted to lab. Plz run the sample GW0033 ASAP to meet the extraction HT. Thx.

106045 – GW0034 sample date 1/28
106044 – GW0033 sample date 2/4

Pam

Pamela Moss
Program Manager
Shaw Environmental & Infrastructure, Inc.
7604 Technology Way, Ste. 300
Denver, CO 80237
Office 720-554-8252
Cell 303-810-6903
pamela.moss@shawgrp.com

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW008

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 04 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182254

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification:
Non-hazard X Flammable Skin Irritant Poison B Radiological Unknown

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation) Mark Lyon Shaw Environmental — Date: 2/4/11 Time: 1730
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: 2/8/11 Time: 0810 · 15
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — Date: 2-8-11 Time: 08:45

Comments: CP 2/8/11

110206 #3

	Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	~~Requested Testing~~ Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0033	KAFB10644-WG-GW0033-REG	04 FEB 2011	12:55	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0033	KAFB10644-WG-GW0033-REG	04 FEB 2011	12:55	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0033	KAFB10644-WG-GW0033-REG	04 FEB 2011	12:55	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0033	KAFB10644-WG-GW0033-REG	04 FEB 2011	12:55	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0033	KAFB10644-WG-GW0033-REG	04 FEB 2011	12:55	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-02	GW0033	KAFB10644-WG-GW0033-REG	04 FEB 2011	12:55	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW008

1102063

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-02 GW0033	KAFB10644-WG-GW0033-REG	04 FEB 2011	12:55	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-04 GW0033	KAFB10644-WG-GW0033-REG	04 FEB 2011	12:55	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0033	KAFB10644-WG-GW0033-REG	04 FEB 2011	12:55	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0033	KAFB10644-WG-GW0033-REG	04 FEB 2011	12:55	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
-03 GW8008-TB	FIELDQC-BW-GW8008-TB-TB	04 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

CD 2/8/11

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 110206~~8~~3

Client: Shaw

Number of Coolers: 1 of 1

Project: Kirtland AFB

Date/Time Received: 2/8/11 08:45

Date cooler(s) opened: 2/8/11 10:15

Opened By (print): CAT

(signature):

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other:

If applicable, enter airbill number here: 872 6791 82254

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 2/4/11 Seal Initials: ML

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No N/A

4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... (Yes) No N/A

5. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No N/A

6. Did you sign custody papers in the appropriate place for acceptance? ..... (Yes) No N/A

7. Was project identifiable from custody papers? ..... (Yes) No N/A

8. If required, was enough ice present in the cooler(s)? ..... (Yes) No N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 0.1 °C Correction Factor: -0.3 °C Final Value: -0.2 °C

*Samples Not frozen.

Dates samples were logged-in: 2/8/11

9. Initial this form to acknowledge login of sample(s): (Name): CAT (Initial): CAT

10. Were all bottle lids intact and sealed tightly? ..... (Yes) No N/A

11. Did all bottles arrive unbroken? ..... (Yes) No N/A

12. Was all required bottle label information complete? ..... (Yes) No N/A

13. Did all bottle labels agree with custody papers? ..... (Yes) No N/A

14. Were correct containers used for the analyses indicated? ..... (Yes) No N/A

15. Were preservative levels correct in all applicable sample containers? ..... (Yes) No N/A

16. Was residual chlorine present in any applicable sample containers? ..... Yes No (N/A)

17. Was sufficient amount of sample sent for the analyses required? ..... (Yes) No N/A

18. Was headspace present in any included VOA vials? ..... (Yes) No N/A → Bubbles in TB only (CAT)

If Non-Conformance issues were present, list by sample ID:

- ph<2 for all ammonia & metals.
- ph>9 for sulfide

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW010
Page 1 of 2

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Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 08 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182302

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification:
Non-hazard X Flammable Skin Irritant Poison B Unknown Radiological

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation) Mark Lyon Shaw Env. Date: 2/8/2011 Time: 1800
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) 2.0°C Date: 2-9-11 Time: 08:30

Comments:

1102096

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0025	KAFB10623-WG-GW0025-REG	08 FEB 2011	12:04	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0025	KAFB10623-WG-GW0025-REG	08 FEB 2011	12:04	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0025	KAFB10623-WG-GW0025-REG	08 FEB 2011	12:04	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0025	KAFB10623-WG-GW0025-REG	08 FEB 2011	12:04	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0025	KAFB10623-WG-GW0025-REG	08 FEB 2011	12:04	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0025	KAFB10623-WG-GW0025-REG	08 FEB 2011	12:04	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
GW0025	KAFB10623-WG-GW0025-REG	08 FEB 2011	12:04	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
-02 GW0025	KAFB10623-WG-GW0025-REG	08 FEB 2011	12:04	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by			Y		

KIRTLAND_003 Summ Package

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW010

11620160

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-02 GW0025	KAFB10623-WG-GW0025-REG	08 FEB 2011	12:04	250 mL HDPE	1	HNO3<pH 2	SW846 6010C Dissolved Iron and Manganese by SW846 6010C			N		
-01 GW0025	KAFB10623-WG-GW0025-REG	08 FEB 2011	12:04	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-03 GW0027	KAFB10625-WG-GW0027-REG	08 FEB 2011	16:08	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0027	KAFB10625-WG-GW0027-REG	08 FEB 2011	16:08	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0027	KAFB10625-WG-GW0027-REG	08 FEB 2011	16:08	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0027	KAFB10625-WG-GW0027-REG	08 FEB 2011	16:08	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
GW0027	KAFB10625-WG-GW0027-REG	08 FEB 2011	16:08	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-04 GW0027	KAFB10625-WG-GW0027-REG	08 FEB 2011	16:08	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
~~-04~~ -03 GW0027	KAFB10625-WG-GW0027-REG	08 FEB 2011	16:08	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0027	KAFB10625-WG-GW0027-REG	08 FEB 2011	16:08	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0027	KAFB10625-WG-GW0027-REG	08 FEB 2011	16:08	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
GW0027	KAFB10625-WG-GW0027-REG	08 FEB 2011	16:08	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
-05 GW8001-AB	FIELDQC-BW-GW8001-AB-AB	08 FEB 2011	10:55	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
-06 GW8001-RB	FIELDQC-BW-GW8001-RB-ER	08 FEB 2011	08:45	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW8001-RB	FIELDQC-BW-GW8001-RB-ER	08 FEB 2011	08:45	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW8001-RB	FIELDQC-BW-GW8001-RB-ER	08 FEB 2011	08:45	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW8001-RB	FIELDQC-BW-GW8001-RB-ER	08 FEB 2011	08:45	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
-07 GW8001-RB	FIELDQC-BW-GW8001-RB-ER	08 FEB 2011	08:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW8001-RB	FIELDQC-BW-GW8001-RB-ER	08 FEB 2011	08:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-08 GW8010-TB	FIELDQC-BW-GW8010-TB-TB	08 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

KIRTLAND_003 Summ Package

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EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102076
Client: Shaw E&I
Number of Coolers: 1 of 2
Project: Kirtland AFB
Date/Time Received: 2-9-11/08:30
Date cooler(s) opened: 2-9-11
Opened By (print): Chris Donald
(signature):

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered EL Courier Other:

If applicable, enter airbill number here: 0695

2. Were custody seals on outside of cooler(s)? ..... (Yes) No
How many: 1 Seal date: 2-8-11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 2.3 °C Correction Factor: -0.3 °C Final Value: 2.6 °C

Dates samples were logged-in: 2-9-11

9. Initial this form to acknowledge login of sample(s): (Name): Chris Donald (Initial) CD

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	(Yes)	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	(N/A)
17. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
18. Was headspace present in any included VOA vials?	Yes	(No)	N/A

If Non-Conformance issues were present, list by sample ID:
ph <2 for all ammonia & metal samples
ph >9 for all sulfides

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102076
Client: Shaw E&I
Number of Coolers: 1 of 2
Project: Kirtland AFB
Date/Time Received: 2-9-11/08:30
Date cooler(s) opened: 2-9-11
Opened By (print): Chris Donald
(signature):

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other:

If applicable, enter airbill number here: 2502

2. Were custody seals on outside of cooler(s)? ..... (Yes) No
How many 1 Seal date: 2-8-11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.8 °C Correction Factor: -0.3 °C Final Value: 1.5 °C

Dates samples were logged-in: 2-9-11

9. Initial this form to acknowledge login of sample(s): (Name): Chris Donald (Initial): CD

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	(Yes)	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	(N/A)
17. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
18. Was headspace present in any included VOA vials?	Yes	(No)	N/A

If Non-Conformance issues were present, list by sample ID:

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW012
Page 1 of 3

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Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 10 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182287

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification:
Non-hazard X Flammable Skin Irritant Poison B Unknown Radiological

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation): Mark Lyon Shaw Environmental — Date: 2/10/11 Time: 1800
1. Received By (Signature/Affiliation): Date: Time:
2. Relinquished By (Signature/Affiliation): Date: Time:
2. Received By (Signature/Affiliation): Date: Time:
3. Relinquished By (Signature/Affiliation): Date: Time:
3. Received By (Signature/Affiliation): Date: 2-11-11 Time: 08:45

Comments:

1102088

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0023	KAFB10621-WG-GW0023-REG	10 FEB 2011	14:48	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0023	KAFB10621-WG-GW0023-REG	10 FEB 2011	14:48	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0023	KAFB10621-WG-GW0023-REG	10 FEB 2011	14:48	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0023	KAFB10621-WG-GW0023-REG	10 FEB 2011	14:48	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
-02 GW0023	KAFB10621-WG-GW0023-REG	10 FEB 2011	14:48	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-01 GW0023	KAFB10621-WG-GW0023-REG	10 FEB 2011	14:48	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0023	KAFB10621-WG-GW0023-REG	10 FEB 2011	14:48	250 mL HDPE	1	Zinc Acetate and NaOH>!	Sulfide by SM4500S-2CF			N		
GW0023	KAFB10621-WG-GW0023-REG	10 FEB 2011	14:48	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA			N		

KIRTLAND_003 Summ Package

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW012

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							300, Alkalinity by SM2320B					
-02 GW0023	KAFB10621-WG-GW0023-REG	10 FEB 2011	14:48	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-01 GW0023	KAFB10621-WG-GW0023-REG	10 FEB 2011	14:48	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-03 GW0026	KAFB10624-WG-GW0026-REG	10 FEB 2011	10:35	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0026	KAFB10624-WG-GW0026-REG	10 FEB 2011	10:35	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0026	KAFB10624-WG-GW0026-REG	10 FEB 2011	10:35	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0026	KAFB10624-WG-GW0026-REG	10 FEB 2011	10:35	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0026	KAFB10624-WG-GW0026-REG	10 FEB 2011	10:35	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0026	KAFB10624-WG-GW0026-REG	10 FEB 2011	10:35	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0026	KAFB10624-WG-GW0026-REG	10 FEB 2011	10:35	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
GW0026	KAFB10624-WG-GW0026-REG	10 FEB 2011	10:35	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-04 GW0026	KAFB10624-WG-GW0026-REG	10 FEB 2011	10:35	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
GW0026	KAFB10624-WG-GW0026-REG	10 FEB 2011	10:35	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-03 GW0026-MS	KAFB10624-WG-GW0026-MS-MS	10 FEB 2011	10:35	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0026-MS	KAFB10624-WG-GW0026-MS-MS	10 FEB 2011	10:35	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0026-MS	KAFB10624-WG-GW0026-MS-MS	10 FEB 2011	10:35	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0026-MS	KAFB10624-WG-GW0026-MS-MS	10 FEB 2011	10:35	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0026-MS	KAFB10624-WG-GW0026-MS-MS	10 FEB 2011	10:35	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-04 GW0026-MS	KAFB10624-WG-GW0026-MS-MS	10 FEB 2011	10:35	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-03 GW0026-MS	KAFB10624-WG-GW0026-MS-MS	10 FEB 2011	10:35	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
GW0026-MS	KAFB10624-WG-GW0026-MS-MS	10 FEB 2011	10:35	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0026-MS	KAFB10624-WG-GW0026-MS-MS	10 FEB 2011	10:35	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-04 GW0026-MS	KAFB10624-WG-GW0026-MS-MS	10 FEB 2011	10:35	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-03 GW0026-MSD	KAFB10624-WG-GW0026-MSD-MSD	10 FEB 2011	10:35	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0026-MSD	KAFB10624-WG-GW0026-MSD-MSD	10 FEB 2011	10:35	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0026-MSD	KAFB10624-WG-GW0026-MSD-MSD	10 FEB 2011	10:35	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0026-MSD	KAFB10624-WG-GW0026-MSD-MSD	10 FEB 2011	10:35	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW012

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-02	GW0026-MSD	KAFB10624-WG-GW0026-MSD-MSD	10 FEB 2011	10:35	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-04	GW0026-MSD	KAFB10624-WG-GW0026-MSD-MSD	10 FEB 2011	10:35	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
↓	GW0026-MSD	KAFB10624-WG-GW0026-MSD-MSD	10 FEB 2011	10:35	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-03	GW0026-MSD	KAFB10624-WG-GW0026-MSD-MSD	10 FEB 2011	10:35	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
↓	GW0026-MSD	KAFB10624-WG-GW0026-MSD-MSD	10 FEB 2011	10:35	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0026-MSD	KAFB10624-WG-GW0026-MSD-MSD	10 FEB 2011	10:35	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
-05	GW8012-TB	FIELDQC-BW-GW8012-TB-TB	10 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 110208 Number of Coolers: 1 of 2

Client: SHAW E+I INC Project: KIRTLAND AFB

Date/Time Received: 2-10-11 08:45 Date cooler(s) opened: 2-11-11

Opened By (print): Russ Townsend (signature): [signature]

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 2287

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 2-10-11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No N/A

4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... (Yes) No N/A

5. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No N/A

6. Did you sign custody papers in the appropriate place for acceptance? ..... (Yes) No N/A

7. Was project identifiable from custody papers? ..... (Yes) No N/A

8. If required, was enough ice present in the cooler(s)? ..... Yes No N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.4 °C Correction Factor: -0.3 °C Final Value: 1.1 °C

Dates samples were logged-in: 2-11-11

9. Initial this form to acknowledge login of sample(s): (Name): Chris Donald (Initial): [initials]

10. Were all bottle lids intact and sealed tightly? ..... (Yes) No N/A

11. Did all bottles arrive unbroken? ..... (Yes) No N/A

12. Was all required bottle label information complete? ..... (Yes) No N/A CP 2-11-11

13. Did all bottle labels agree with custody papers? ..... (Yes) No N/A

14. Were correct containers used for the analyses indicated? ..... (Yes) No N/A

15. Were preservative levels correct in all applicable sample containers? ..... (Yes) No N/A

16. Was residual chlorine present in any applicable sample containers? ..... Yes No (N/A)

17. Was sufficient amount of sample sent for the analyses required? ..... (Yes) No N/A

18. Was headspace present in any included VOA vials? ..... Yes (No) N/A

If Non-Conformance issues were present, list by sample ID: _____

pH 2 for all ammonia + metals samples CP 2-11-11

pH >2 for all Sulfides

No Samples for CLW Vacuum 0829. GW021 Samples received with matching time stamps on COC but not present on COC

2 CP 2-11-11

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 110808

Client: Shaw E+I INC

Number of Coolers: 2 of 2

Project: Kirtland AFB

Date/Time Received: 2-11-11 08:45

Date cooler(s) opened: 2-11-11

Opened By (print): Russ Townsend

(signature): Russ Townsend

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered EL Courier Other: _____

If applicable, enter airbill number here: 0333

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 2-10-11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 2.3 °C Correction Factor: -0.3 °C Final Value: 2.0 °C

Dates samples were logged-in: 2-11-11

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): CP

10. Were all bottle lids intact and sealed tightly?	Yes	(No)	N/A
11. Did all bottles arrive unbroken?	Yes	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	Yes	No	(N/A)
16. Was residual chlorine present in any applicable sample containers?	Yes	No	(N/A)
17. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
18. Was headspace present in any included VOA vials?	Yes	No	(N/A)

Broken GW0026-MSD TPH as Diesel

If Non-Conformance issues were present, list by sample ID: _____

Sec 1 of 2

CP 2-11-11

Kim Kostzer

From: Moss, Pamela J [pamela.moss@shawgrp.com]
Sent: Monday, February 14, 2011 12:16 PM
To: kkostzer@empirlabs.com
Subject: RE: Prelim SRC for samples received 2/11/11

Hi Kim,
GW0023 is for sample KAFB10621 that is correct. I wonder if they screwed up the sample labels.? Also anions are nitrate, chloride and sulfate as usual.
Did you send a SRB for the samples we collected on 2/8 and 2/9 ?? if so plz resend thx.

From: Kim Kostzer [mailto:kkostzer@empirlabs.com]
Sent: Monday, February 14, 2011 8:41 AM
To: Moss, Pamela J
Cc: Lyon, Mark; George, Lisa
Subject: Prelim SRC for samples received 2/11/11

Please see attached Prelim SRC for samples received on 2/11/11 for SDG Kirtland_003. Note that the COC sample ID GW0023 was not indicated on any containers received. We did receive containers that said GW0021 with the same sample dates and times indicated on COC for GW0023. Can you please let me know what the correct sample ID should be. Currently they are logged in as per COC. In addition, I noticed that the coc's have indicted Nitrate only for Anions. Is this correct, or should it be both nitrate/nitrite?

Thank you,

Kim

Kim Kostzer
Project Manager
Empirical Laboratories, LLC
"Your National Small Business Partner"
621 Mainstream Drive, Suite 270 I Nashville, TN 37228 I www.empirlabs.com
Main: 615.345.1115 ext. 240 I Toll free: 877.345.1113 I Fax: 866.417.0548

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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW011

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 09 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182276

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification:
Non-hazard X Flammable Skin Irritant Poison B Radiological Unknown

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation) Mark Lyon Shaw Env. Date: 2-9-2011 Time: 1730
1. Received By (Signature/Affiliation) Empirical Lab Date: 2/10/11 Time: 1145
2. Relinquished By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) Date: Time:

Comments:

0.2°C

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
1020977-01 GW0024	KAFB10622-WG-GW0024-REG	09 FEB 2011	11:48	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0024	KAFB10622-WG-GW0024-REG	09 FEB 2011	11:48	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0024	KAFB10622-WG-GW0024-REG	09 FEB 2011	11:48	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0024	KAFB10622-WG-GW0024-REG	09 FEB 2011	11:48	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0024	KAFB10622-WG-GW0024-REG	09 FEB 2011	11:48	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0024	KAFB10622-WG-GW0024-REG	09 FEB 2011	11:48	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0024	KAFB10622-WG-GW0024-REG	09 FEB 2011	11:48	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		

-04 -01

KIRTLAND_003 Summ Package

Shaw™
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ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW011

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
1102097-01	GW0024	KAFB10622-WG-GW0024-REG	09 FEB 2011	11:48	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0024	KAFB10622-WG-GW0024-REG	09 FEB 2011	11:48	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
	GW0024	KAFB10622-WG-GW0024-REG	09 FEB 2011	11:48	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-02	GW0030	KAFB10627-WG-GW0030-REG	09 FEB 2011	14:52	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0030	KAFB10627-WG-GW0030-REG	09 FEB 2011	14:52	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0030	KAFB10627-WG-GW0030-REG	09 FEB 2011	14:52	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0030	KAFB10627-WG-GW0030-REG	09 FEB 2011	14:52	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0030	KAFB10627-WG-GW0030-REG	09 FEB 2011	14:52	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0030	KAFB10627-WG-GW0030-REG	09 FEB 2011	14:52	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-05	GW0030	KAFB10627-WG-GW0030-REG	09 FEB 2011	14:52	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-04	GW0030	KAFB10627-WG-GW0030-REG	09 FEB 2011	14:52	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0030	KAFB10627-WG-GW0030-REG	09 FEB 2011	14:52	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0030	KAFB10627-WG-GW0030-REG	09 FEB 2011	14:52	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
-03	GW8011-TB	FIELDQC-BW-GW8011-TB-TB	09 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102097 Number of Coolers: 1 of 1

Client: SHAW E+I INC. Project: Kirtland AFB

Date/Time Received: 2.10.11 11:45 Date cooler(s) opened: 2.10.11

Opened By (print): Russ Townsend (signature): Russ Townsend

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 2276

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 2.9.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 0.5 °C Correction Factor: -0.3 °C Final Value: 0.2 °C

Dates samples were logged-in: 2-11-11

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	(Yes)	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	(N/A)
17. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
18. Was headspace present in any included VOA vials?	Yes	(No)	N/A

If Non-Conformance issues were present, list by sample ID: _____

ph <2 for all ammonia & metals samples

ph >9 for all sulfides

WORK ORDER

1102062

Printed: 2/28/2011 3:32:31PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 03/01/2011 16:00 (15 day TAT)

Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 02/08/2011 08:45
Date Logged In 02/08/2011 10:07

Samples Received at: **2.6°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1102062

Printed: 2/28/2011 3:32:31PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102062-01 GW0014 [Water] Sampled 02/07/2011 11:15 Central					
E300.0	02/24/2011 14:00	15	02/09/2011 11:15		Nitrate
E300.0	02/24/2011 14:00	15	03/07/2011 11:15		Chloride, Sulfate
SM4500NH3BG	02/24/2011 14:00	15	03/07/2011 11:15		
SM2320B	02/24/2011 14:00	15	02/21/2011 11:15		
SW8260B	02/24/2011 14:00	15	02/21/2011 11:15		
SW8015B	02/24/2011 14:00	15	02/21/2011 11:15		
SW8011	02/24/2011 14:00	15	02/21/2011 11:15		
SW8015B	02/24/2011 14:00	15	02/14/2011 11:15		
SW6010B	02/24/2011 14:00	15	08/06/2011 11:15		Ca, Pb, K, Na, Mg
SM4500S2CF	02/24/2011 14:00	15	02/14/2011 11:15		
1102062-02 GW0014 [Water] Sampled 02/07/2011 11:15 Central					**Field Filtered and Preserved.**
SW6010B	02/24/2011 14:00	15	08/06/2011 11:15		Fe & Mn, Field Filtered and Preserved.
1102062-03 GW0028 [Water] Sampled 02/07/2011 15:16 Central					
SW8015B	02/24/2011 14:00	15	02/14/2011 15:16		
E300.0	02/24/2011 14:00	15	02/09/2011 15:16		Nitrate
SM4500S2CF	02/24/2011 14:00	15	02/14/2011 15:16		
SM4500NH3BG	02/24/2011 14:00	15	03/07/2011 15:16		
SM2320B	02/24/2011 14:00	15	02/21/2011 15:16		
SW8260B	02/24/2011 14:00	15	02/21/2011 15:16		
E300.0	02/24/2011 14:00	15	03/07/2011 15:16		Chloride, Sulfate
SW8011	02/24/2011 14:00	15	02/21/2011 15:16		
SW6010B	02/24/2011 14:00	15	08/06/2011 15:16		Ca, Pb, K, Na, Mg
SW8015B	02/24/2011 14:00	15	02/21/2011 15:16		

KIRTLAND_003 Summ Package

WORK ORDER

1102062

Printed: 2/28/2011 3:32:31PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102062-04 GW0028 [Water] Sampled 02/07/2011 15:16 Central					**Field Filtered and Preserved.**
SW6010B	02/24/2011 14:00	15	08/06/2011 15:16		Fe & Mn, Field Filtered and Preserved.
1102062-05 GW8009-TB [Water] Sampled 02/07/2011 08:00 Central					
SW8260B	02/24/2011 14:00	15	02/21/2011 08:00		
1102062-06 GW0029 [Water] Sampled 02/07/2011 15:16 Central					
SW8011	02/24/2011 14:00	15	02/21/2011 15:16		
SW8015B	02/24/2011 14:00	15	02/14/2011 15:16		
SW8015B	02/24/2011 14:00	15	02/21/2011 15:16		
SW8260B	02/24/2011 14:00	15	02/21/2011 15:16		
SM2320B	02/24/2011 14:00	15	02/21/2011 15:16		
SM4500NH3BG	02/24/2011 14:00	15	03/07/2011 15:16		
E300.0	02/24/2011 14:00	15	03/07/2011 15:16		Chloride, Sulfate
E300.0	02/24/2011 14:00	15	02/09/2011 15:16		Nitrate
SM4500S2CF	02/24/2011 14:00	15	02/14/2011 15:16		
SW6010B	02/24/2011 14:00	15	08/06/2011 15:16		Ca, Pb, K, Na, Mg
1102062-07 GW0028 [Water] Sampled 02/07/2011 15:16 Central					**Field Filtered and Preserved.**
SW6010B	02/24/2011 14:00	15	08/06/2011 15:16		Fe & Mn, Field Filtered and Preserved.

KIRTLAND_003 Summ Package

WORK ORDER

1102063

Printed: 2/28/2011 3:33:04PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 03/01/2011 16:00 (15 day TAT)

Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 02/08/2011 08:45
Date Logged In 02/08/2011 10:33

Samples Received at: **-0.2°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1102063

Printed: 2/28/2011 3:33:04PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102063-01 GW0033 [Water] Sampled 02/04/2011 12:55 Central					**Nitrate received Out Of Hold**
SM4500S2CF	02/24/2011 14:00	15	02/11/2011 12:55		
E300.0	02/24/2011 14:00	15	02/06/2011 12:55		Nitrate
E300.0	02/24/2011 14:00	15	03/04/2011 12:55		Chloride, Sulfate
SM4500NH3BG	02/24/2011 14:00	15	03/04/2011 12:55		
SM2320B	02/24/2011 14:00	15	02/18/2011 12:55		
SW8260B	02/24/2011 14:00	15	02/18/2011 12:55		
SW8015B	02/24/2011 14:00	15	02/18/2011 12:55		
SW8270C	02/24/2011 14:00	15	02/11/2011 12:55		use extra DRO container
SW8011	02/24/2011 14:00	15	02/18/2011 12:55		
SW8015B	02/24/2011 14:00	15	02/11/2011 12:55		
SW6010B	02/24/2011 14:00	15	08/03/2011 12:55		Ca, Pb, K, Na, Mg
1102063-02 GW0033 [Water] Sampled 02/04/2011 12:55 Central					**Field Filtered and Preserved.**
SW6010B	02/24/2011 14:00	15	08/03/2011 12:55		Fe & Mn, Field Filtered and Preserved.
1102063-03 GW8008-TB [Water] Sampled 02/04/2011 08:00 Central					
SW8260B	02/24/2011 14:00	15	02/18/2011 08:00		

WORK ORDER

1102076

Printed: 2/28/2011 3:33:31PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 03/02/2011 16:00 (15 day TAT)

Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 02/09/2011 08:45
Date Logged In 02/09/2011 16:02

Samples Received at: **2°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1102076

Printed: 2/28/2011 3:33:31PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102076-01 GW0025 [Water] Sampled 02/08/2011 12:04 Central					
SW8015B	03/02/2011 14:00	15	02/15/2011 12:04		
SW8011	03/02/2011 14:00	15	02/22/2011 12:04		
SW8015B	03/02/2011 14:00	15	02/22/2011 12:04		
SW8260B	03/02/2011 14:00	15	02/22/2011 12:04		
SM2320B	03/02/2011 14:00	15	02/22/2011 12:04		
SM4500NH3BG	03/02/2011 14:00	15	03/08/2011 12:04		
E300.0	03/02/2011 14:00	15	03/08/2011 12:04		Chloride, Sulfate
E300.0	03/02/2011 14:00	15	02/10/2011 12:04		Nitrate
SM4500S2CF	03/02/2011 14:00	15	02/15/2011 12:04		
SW6010B	03/02/2011 14:00	15	08/07/2011 12:04		Ca, Pb, K, Na, Mg
1102076-02 GW0025 [Water] Sampled 02/08/2011 12:04 Central					**Field Filtered and Preserved.**
SW6010B	03/02/2011 14:00	15	08/07/2011 12:04		Fe & Mn, Field Filtered and Preserved.
1102076-03 GW0027 [Water] Sampled 02/08/2011 16:08 Central					
SW8260B	03/02/2011 14:00	15	02/22/2011 16:08		
SW6010B	03/02/2011 14:00	15	08/07/2011 16:08		Ca, Pb, K, Na, Mg
SW8015B	03/02/2011 14:00	15	02/15/2011 16:08		
SW8015B	03/02/2011 14:00	15	02/22/2011 16:08		
SM2320B	03/02/2011 14:00	15	02/22/2011 16:08		
SM4500NH3BG	03/02/2011 14:00	15	03/08/2011 16:08		
E300.0	03/02/2011 14:00	15	03/08/2011 16:08		Chloride, Sulfate
E300.0	03/02/2011 14:00	15	02/10/2011 16:08		Nitrate
SM4500S2CF	03/02/2011 14:00	15	02/15/2011 16:08		
SW8011	03/02/2011 14:00	15	02/22/2011 16:08		

WORK ORDER

1102076

Printed: 2/28/2011 3:33:31PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102076-04 GW0027 [Water] Sampled 02/08/2011 16:08 Central					**Field Filtered and Preserved.**
SW6010B	03/02/2011 14:00	15	08/07/2011 16:08		Fe & Mn, Field Filtered and Preserved.
1102076-05 GW8001-AB [Water] Sampled 02/08/2011 10:55 Central					
SW8260B	03/02/2011 14:00	15	02/22/2011 10:55		
1102076-06 GW8001-RB [Water] Sampled 02/08/2011 08:45 Central					
SW6010B	03/02/2011 14:00	15	08/07/2011 08:45		Ca, Pb, K, Na, Mg
SW8015B	03/02/2011 14:00	15	02/15/2011 08:45		
SW8015B	03/02/2011 14:00	15	02/22/2011 08:45		
SW8260B	03/02/2011 14:00	15	02/22/2011 08:45		
1102076-07 GW8001-RB [Water] Sampled 02/08/2011 08:45 Central					**Field Filtered and Preserved.**
SW6010B	03/02/2011 14:00	15	08/07/2011 08:45		Fe & Mn, Field Filtered and Preserved.
1102076-08 GW8010-TB [Water] Sampled 02/08/2011 08:00 Central					
SW8260B	03/02/2011 14:00	15	02/22/2011 08:00		

WORK ORDER

1102088

Printed: 2/28/2011 3:33:57PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 03/04/2011 16:00 (15 day TAT)

Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 02/11/2011 08:45
Date Logged In 02/11/2011 11:35

Samples Received at: **2°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1102088

Printed: 2/28/2011 3:33:57PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102088-01 GW0023 [Water] Sampled 02/10/2011 14:48 Central					
SM4500S2CF	03/01/2011 14:00	15	02/17/2011 14:48		
SW8015B	03/01/2011 14:00	15	02/17/2011 14:48		
SW8011	03/01/2011 14:00	15	02/24/2011 14:48		
SW8015B	03/01/2011 14:00	15	02/24/2011 14:48		
SW8260B	03/01/2011 14:00	15	02/24/2011 14:48		
SM2320B	03/01/2011 14:00	15	02/24/2011 14:48		
SM4500NH3BG	03/01/2011 14:00	15	03/10/2011 14:48		
E300.0	03/01/2011 14:00	15	03/10/2011 14:48		Chloride, Sulfate
SW6010B	03/01/2011 14:00	15	08/09/2011 14:48		Ca, Pb, K, Na, Mg
E300.0	03/01/2011 14:00	15	02/12/2011 14:48		Nitrate
1102088-02 GW0023 [Water] Sampled 02/10/2011 14:48 Central					**Field Filtered and Preserved.**
SW6010B	03/01/2011 14:00	15	08/09/2011 14:48		Fe & Mn, Field Filtered and Preserved.
1102088-03 GW0026 [Water] Sampled 02/10/2011 10:35 Central					**MS/MSD**
SM4500S2CF	03/01/2011 14:00	15	02/17/2011 10:35		MS/MSD
SW6010B	03/01/2011 14:00	15	08/09/2011 10:35		Ca, Pb, K, Na, Mgm MS/MSD
SW8015B	03/01/2011 14:00	15	02/17/2011 10:35		MS/MSD
SW8011	03/01/2011 14:00	15	02/24/2011 10:35		MS/MSD
SW8015B	03/01/2011 14:00	15	02/24/2011 10:35		MS/MSD
SW8260B	03/01/2011 14:00	15	02/24/2011 10:35		MS/MSD
SM2320B	03/01/2011 14:00	15	02/24/2011 10:35		MS/MSD
SM4500NH3BG	03/01/2011 14:00	15	03/10/2011 10:35		MS/MSD
E300.0	03/01/2011 14:00	15	03/10/2011 10:35		Chloride, Sulfate, MS/MSD
E300.0	03/01/2011 14:00	15	02/12/2011 10:35		Nitrate, MS/MSD

KIRTLAND_003 Summ Package

WORK ORDER

1102088

Printed: 2/28/2011 3:33:57PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102088-04 GW0026 [Water] Sampled 02/10/2011 10:35 Central					**Field Filtered and Preserved.**
SW6010B	03/01/2011 14:00	15	08/09/2011 10:35		Fe & Mn, Field Filtered and Preserved.
1102088-05 GW8012-TB [Water] Sampled 02/10/2011 08:00 Central					
SW8260B	03/01/2011 14:00	15	02/24/2011 08:00		

WORK ORDER

1102097

Printed: 2/28/2011 3:34:18PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 03/03/2011 16:00 (15 day TAT)

Received By: Sonya Gordon
Logged In By: Sonya Gordon

Date Received: 02/10/2011 11:45
Date Logged In 02/11/2011 16:01

Samples Received at: **0.2°C**

Custody Seals	No	Received On Ice	No
Containers Intact	No		
COC/Labels Agree	No		
Preservation Confir	No		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1102097

Printed: 2/28/2011 3:34:18PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102097-01 GW0024 [Water] Sampled 02/09/2011 11:48 US Mountain					
SW8015B	02/28/2011 14:00	15	02/16/2011 12:48		
SW8011	02/28/2011 14:00	15	02/23/2011 12:48		
SW8015B	02/28/2011 14:00	15	02/23/2011 12:48		
SW8260B	02/28/2011 14:00	15	02/23/2011 12:48		
SM2320B	02/28/2011 14:00	15	02/23/2011 12:48		
SM4500NH3BG	02/28/2011 14:00	15	03/09/2011 13:48		
E300.0	02/28/2011 14:00	15	03/09/2011 13:48		Chloride/sulfate
E300.0	02/28/2011 14:00	15	02/11/2011 12:48		Nitrate
SM4500S2CF	02/28/2011 14:00	15	02/16/2011 12:48		
SW6010B	02/28/2011 14:00	15	08/08/2011 13:48		Ca, Pb, K, Na, Mg
1102097-02 GW0030 [Water] Sampled 02/09/2011 14:52 US Mountain					
SW8011	02/28/2011 14:00	15	02/23/2011 15:52		
SW8015B	02/28/2011 14:00	15	02/16/2011 15:52		
SW8015B	02/28/2011 14:00	15	02/23/2011 15:52		
SW8260B	02/28/2011 14:00	15	02/23/2011 15:52		
SM2320B	02/28/2011 14:00	15	02/23/2011 15:52		
SM4500NH3BG	02/28/2011 14:00	15	03/09/2011 16:52		
E300.0	02/28/2011 14:00	15	03/09/2011 16:52		Chloride/Sulfate
E300.0	02/28/2011 14:00	15	02/11/2011 15:52		Nitrate
SM4500S2CF	02/28/2011 14:00	15	02/16/2011 15:52		
SW6010B	02/28/2011 14:00	15	08/08/2011 16:52		Ca, Pb, K, Na, Mg
1102097-03 GW8011-TB [Water] Sampled 02/09/2011 08:00 US Mountain					
SW8260B	02/28/2011 14:00	15	02/23/2011 09:00		

WORK ORDER

1102097

Printed: 2/28/2011 3:34:18PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102097-04 GW0024 [Water] Sampled 02/09/2011 11:48 US Mountain					**Field Filtered and Preserved**
SW6010B	02/28/2011 14:00	15	08/08/2011 13:48		Fe & Mn,Field Filtered and Preserved
1102097-05 GW0030 [Water] Sampled 02/09/2011 14:52 US Mountain					**Field Filtered and Preserved**
SW6010B	02/28/2011 14:00	15	08/08/2011 16:52		Fe & Mn, Field Filtered and Preserved

KIRTLAND_003 Summ Package

Sample Delivery Group Assignment Form

CLIENT: Shaw E & I (I700)
PROJECT NAME: Kirtland AFB 2011
SDG #: kirtland_003
MATRIX: Water

QC LEVEL: EDD/IVQSM
Report Due: 3/1/2011
Client Sample Count: 23

Sample Type	Sampled	Received	Lab ID	Client ID	E300.0	SM2320B	SM4500NH3BG	SM4500S2CF	SW6010B	SW8011	SW8015B	SW8260B	SW8270C
Client Sample	2/7/2011	2/8/2011	1102062-01	GW0014	X	X	X	X	X	X	X	X	
Client Sample	2/7/2011	2/8/2011	1102062-02	GW0014					Field Filtered and Preserved.				
Client Sample	2/7/2011	2/8/2011	1102062-03	GW0028	X	X	X	X	X	X	X	X	
Client Sample	2/7/2011	2/8/2011	1102062-04	GW0028					Field Filtered and Preserved.				
Trip Blank	2/7/2011	2/8/2011	1102062-05	GW8009-TB								X	
Client Sample	2/7/2011	2/8/2011	1102062-06	GW0029	X	X	X	X	X	X	X	X	
Client Sample	2/7/2011	2/8/2011	1102062-07	GW0028					Field Filtered and Preserved.				
Client Sample	2/4/2011	2/8/2011	1102063-01	GW0033	Nitrate received Out Of Hold	Nitrate received Out Of Hold	Nitrate received Out Of Hold	Nitrate received Out Of Hold	Nitrate received Out Of Hold	Nitrate received Out Of Hold	Nitrate received Out Of Hold	Nitrate received Out Of Hold	Nitrate received Out Of Hold
Client Sample	2/4/2011	2/8/2011	1102063-02	GW0033					Field Filtered				
Trip Blank	2/4/2011	2/8/2011	1102063-03	GW8008-TB								X	
Client Sample	2/8/2011	2/9/2011	1102076-01	GW0025	X	X	X	X	X	X	X	X	
Client Sample	2/8/2011	2/9/2011	1102076-02	GW0025					Field Filtered and Preserved.				
Client Sample	2/8/2011	2/9/2011	1102076-03	GW0027	X	X	X	X	X	X	X	X	
Client Sample	2/8/2011	2/9/2011	1102076-04	GW0027					Field Filtered and Preserved.				
Client Sample	2/8/2011	2/9/2011	1102076-05	GW8001-AB								X	
Client Sample	2/8/2011	2/9/2011	1102076-06	GW8001-RB					X		X	X	
Client Sample	2/8/2011	2/9/2011	1102076-07	GW8001-RB					Field Filtered and Preserved.				
Trip Blank	2/8/2011	2/9/2011	1102076-08	GW8010-TB								X	
Client Sample	2/10/2011	2/11/2011	1102088-01	GW0023	X	X	X	X	X	X	X	X	
Client Sample	2/10/2011	2/11/2011	1102088-02	GW0023					Field Filtered				
Client Sample	2/10/2011	2/11/2011	1102088-03	GW0026	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	
Client Sample	2/10/2011	2/11/2011	1102088-04	GW0026					Field Filtered				
Trip Blank	2/10/2011	2/11/2011	1102088-05	GW8012-TB								X	
Client Sample	2/9/2011	2/10/2011	1102097-01	GW0024	X	X	X	X	X	X	X	X	
Client Sample	2/9/2011	2/10/2011	1102097-02	GW0030	X	X	X	X	X	X	X	X	
Trip Blank	2/9/2011	2/10/2011	1102097-03	GW8011-TB								X	
Client Sample	2/9/2011	2/10/2011	1102097-04	GW0024					Field Filtered and Preserved				
Client Sample	2/9/2011	2/10/2011	1102097-05	GW0030					Field Filtered and Preserved				

Data for SW8260B Forms

ANALYSIS DATA SHEET

GW0014

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102062-01 File ID: 0206201.D

Sampled: 02/07/11 11:15 Prepared: 02/12/11 00:00 Analyzed: 02/13/11 04:33

Solids: Preparation: 5030B Dilution: 1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	X, U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	X, U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0014

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102062-01 File ID: 0206201.D

Sampled: 02/07/11 11:15 Prepared: 02/12/11 00:00 Analyzed: 02/13/11 04:33

Solids: Preparation: 5030B Dilution: 1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	X, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	6.16	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.63	109	75 - 120	
Dibromofluoromethane	30.00	32.63	109	85 - 115	
1,2-Dichloroethane-d4	30.00	30.17	101	70 - 120	
Toluene-d8	30.00	29.83	99.4	85 - 120	

ANALYSIS DATA SHEET

GW0028

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102062-03 File ID: 0206203.D

Sampled: 02/07/11 15:16 Prepared: 02/12/11 00:00 Analyzed: 02/13/11 05:03

Solids: Preparation: 5030B Dilution: 1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	X, U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	X, U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0028

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102062-03 File ID: 0206203.D

Sampled: 02/07/11 15:16 Prepared: 02/12/11 00:00 Analyzed: 02/13/11 05:03

Solids: Preparation: 5030B Dilution: 1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	X, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	5.10	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.89	99.6	75 - 120	
Dibromofluoromethane	30.00	32.14	107	85 - 115	
1,2-Dichloroethane-d4	30.00	30.60	102	70 - 120	
Toluene-d8	30.00	26.90	89.7	85 - 120	

ANALYSIS DATA SHEET

GW8009-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102062-05 File ID: 0206205.D

Sampled: 02/07/11 08:00 Prepared: 02/12/11 00:00 Analyzed: 02/13/11 02:35

Solids: Preparation: 5030B Dilution: 1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	X, U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	X, U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8009-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102062-05 File ID: 0206205.D

Sampled: 02/07/11 08:00 Prepared: 02/12/11 00:00 Analyzed: 02/13/11 02:35

Solids: Preparation: 5030B Dilution: 1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	X, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.36	97.9	75 - 120	
Dibromofluoromethane	30.00	31.99	107	85 - 115	
1,2-Dichloroethane-d4	30.00	30.58	102	70 - 120	
Toluene-d8	30.00	26.40	88.0	85 - 120	

ANALYSIS DATA SHEET

GW0029

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102062-06 File ID: 0206206.D

Sampled: 02/07/11 15:16 Prepared: 02/12/11 00:00 Analyzed: 02/13/11 05:32

Solids: Preparation: 5030B Dilution: 1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	X, U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	X, U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0029

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102062-06 File ID: 0206206.D

Sampled: 02/07/11 15:16 Prepared: 02/12/11 00:00 Analyzed: 02/13/11 05:32

Solids: Preparation: 5030B Dilution: 1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	X, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	4.98	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.57	105	75 - 120	
Dibromofluoromethane	30.00	32.10	107	85 - 115	
1,2-Dichloroethane-d4	30.00	28.91	96.4	70 - 120	
Toluene-d8	30.00	29.36	97.9	85 - 120	

ANALYSIS DATA SHEET

GW0033

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102063-01 File ID: 0206301.D

Sampled: 02/04/11 12:55 Prepared: 02/12/11 00:00 Analyzed: 02/13/11 06:02

Solids: Preparation: 5030B Dilution: 1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	X, U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	X, U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0033

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102063-01 File ID: 0206301.D

Sampled: 02/04/11 12:55 Prepared: 02/12/11 00:00 Analyzed: 02/13/11 06:02

Solids: Preparation: 5030B Dilution: 1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	X, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	8.79	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.15	104	75 - 120	
Dibromofluoromethane	30.00	31.61	105	85 - 115	
1,2-Dichloroethane-d4	30.00	29.85	99.5	70 - 120	
Toluene-d8	30.00	28.56	95.2	85 - 120	

ANALYSIS DATA SHEET

GW8008-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102063-03 File ID: 0206303.D

Sampled: 02/04/11 08:00 Prepared: 02/12/11 00:00 Analyzed: 02/13/11 03:04

Solids: Preparation: 5030B Dilution: 1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	X, U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	X, U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8008-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102063-03 File ID: 0206303.D

Sampled: 02/04/11 08:00 Prepared: 02/12/11 00:00 Analyzed: 02/13/11 03:04

Solids: Preparation: 5030B Dilution: 1

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	X, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.06	104	75 - 120	
Dibromofluoromethane	30.00	32.27	108	85 - 115	
1,2-Dichloroethane-d4	30.00	30.54	102	70 - 120	
Toluene-d8	30.00	28.70	95.7	85 - 120	

ANALYSIS DATA SHEET

GW0025

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102076-01 File ID: 0207601.D

Sampled: 02/08/11 12:04 Prepared: 02/14/11 00:00 Analyzed: 02/15/11 04:37

Solids: Preparation: 5030B Dilution: 1

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	X, U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	Q, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0025

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102076-01 File ID: 0207601.D

Sampled: 02/08/11 12:04 Prepared: 02/14/11 00:00 Analyzed: 02/15/11 04:37

Solids: Preparation: 5030B Dilution: 1

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	X, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	8.18	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.72	106	75 - 120	
Dibromofluoromethane	30.00	34.30	114	85 - 115	
1,2-Dichloroethane-d4	30.00	31.35	105	70 - 120	
Toluene-d8	30.00	27.56	91.9	85 - 120	

ANALYSIS DATA SHEET

GW0027

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102076-03 File ID: 0207603.D

Sampled: 02/08/11 16:08 Prepared: 02/14/11 00:00 Analyzed: 02/15/11 05:07

Solids: Preparation: 5030B Dilution: 1

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	X, U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	Q, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0027

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102076-03 File ID: 0207603.D

Sampled: 02/08/11 16:08 Prepared: 02/14/11 00:00 Analyzed: 02/15/11 05:07

Solids: Preparation: 5030B Dilution: 1

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	X, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	9.09	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.70	102	75 - 120	
Dibromofluoromethane	30.00	34.39	115	85 - 115	
1,2-Dichloroethane-d4	30.00	31.02	103	70 - 120	
Toluene-d8	30.00	28.20	94.0	85 - 120	

ANALYSIS DATA SHEET

GW8001-AB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102076-05 File ID: 0207605.D

Sampled: 02/08/11 10:55 Prepared: 02/14/11 00:00 Analyzed: 02/15/11 02:39

Solids: Preparation: 5030B Dilution: 1

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	X, U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	Q, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8001-AB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102076-05 File ID: 0207605.D

Sampled: 02/08/11 10:55 Prepared: 02/14/11 00:00 Analyzed: 02/15/11 02:39

Solids: Preparation: 5030B Dilution: 1

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	X, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.72	99.1	75 - 120	
Dibromofluoromethane	30.00	31.13	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.47	102	70 - 120	
Toluene-d8	30.00	26.99	90.0	85 - 120	

ANALYSIS DATA SHEET

GW8001-RB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102076-06 File ID: 0207606.D

Sampled: 02/08/11 08:45 Prepared: 02/14/11 00:00 Analyzed: 02/15/11 01:10

Solids: Preparation: 5030B Dilution: 1

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene	0.600	0.250	0.500	1.00	J
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	X, U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	Q, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene	0.332	0.250	0.500	1.00	J
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8001-RB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102076-06 File ID: 0207606.D

Sampled: 02/08/11 08:45 Prepared: 02/14/11 00:00 Analyzed: 02/15/11 01:10

Solids: Preparation: 5030B Dilution: 1

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	X, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	2.52	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene	0.751	0.500	1.00	2.00	J
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.33	101	75 - 120	
Dibromofluoromethane	30.00	30.87	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.39	101	70 - 120	
Toluene-d8	30.00	27.49	91.6	85 - 120	

ANALYSIS DATA SHEET

GW8010-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102076-08 File ID: 0207608.D

Sampled: 02/08/11 08:00 Prepared: 02/14/11 00:00 Analyzed: 02/14/11 23:41

Solids: Preparation: 5030B Dilution: 1

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	X, U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	Q, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8010-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102076-08 File ID: 0207608.D

Sampled: 02/08/11 08:00 Prepared: 02/14/11 00:00 Analyzed: 02/14/11 23:41

Solids: Preparation: 5030B Dilution: 1

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	X, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.22	107	75 - 120	
Dibromofluoromethane	30.00	31.97	107	85 - 115	
1,2-Dichloroethane-d4	30.00	28.01	93.4	70 - 120	
Toluene-d8	30.00	29.46	98.2	85 - 120	

ANALYSIS DATA SHEET

GW0023

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102088-01 File ID: 0208801.D

Sampled: 02/10/11 14:48 Prepared: 02/15/11 00:00 Analyzed: 02/15/11 12:31

Solids: Preparation: 5030B Dilution: 1

Batch: 1B15001 Sequence: 1B04702 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene	1.12	0.250	0.500	1.00	
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene	0.775	0.250	0.500	1.00	J
98-06-6	tert-Butylbenzene	0.415	0.250	0.500	1.00	J
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0023

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102088-01 File ID: 0208801.D

Sampled: 02/10/11 14:48 Prepared: 02/15/11 00:00 Analyzed: 02/15/11 12:31

Solids: Preparation: 5030B Dilution: 1

Batch: 1B15001 Sequence: 1B04702 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene	7.53	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	X, U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	11.5	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	2.54	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	2.38	0.250	0.500	1.00	
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene	4.75	0.500	1.00	2.00	
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.73	102	75 - 120	
Dibromofluoromethane	30.00	30.99	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.13	97.1	70 - 120	
Toluene-d8	30.00	30.31	101	85 - 120	

ANALYSIS DATA SHEET

GW0026

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102088-03 File ID: 0208803.D

Sampled: 02/10/11 10:35 Prepared: 02/15/11 00:00 Analyzed: 02/15/11 20:54

Solids: Preparation: 5030B Dilution: 1

Batch: 1B15004 Sequence: 1B04703 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, N, Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	N, X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.634	0.250	0.500	1.00	J, B

ANALYSIS DATA SHEET

GW0026

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102088-03 File ID: 0208803.D

Sampled: 02/10/11 10:35 Prepared: 02/15/11 00:00 Analyzed: 02/15/11 20:54

Solids: Preparation: 5030B Dilution: 1

Batch: 1B15004 Sequence: 1B04703 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	X, U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	10.9	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.09	104	75 - 120	
Dibromofluoromethane	30.00	31.36	105	85 - 115	
1,2-Dichloroethane-d4	30.00	31.34	104	70 - 120	
Toluene-d8	30.00	30.62	102	85 - 120	

ANALYSIS DATA SHEET

GW8012-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102088-05 File ID: 0208805.D

Sampled: 02/10/11 08:00 Prepared: 02/15/11 00:00 Analyzed: 02/15/11 10:02

Solids: Preparation: 5030B Dilution: 1

Batch: 1B15001 Sequence: 1B04702 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.599	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

GW8012-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102088-05 File ID: 0208805.D

Sampled: 02/10/11 08:00 Prepared: 02/15/11 00:00 Analyzed: 02/15/11 10:02

Solids: Preparation: 5030B Dilution: 1

Batch: 1B15001 Sequence: 1B04702 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	X, U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.50	105	75 - 120	
Dibromofluoromethane	30.00	30.94	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.88	99.6	70 - 120	
Toluene-d8	30.00	30.61	102	85 - 120	

ANALYSIS DATA SHEET

GW0024

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102097-01 File ID: 0209701.D

Sampled: 02/09/11 11:48 Prepared: 02/15/11 00:00 Analyzed: 02/15/11 13:32

Solids: Preparation: 5030B Dilution: 1

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Q, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)	1.11	0.250	0.500	1.00	
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0024

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102097-01 File ID: 0209701.D

Sampled: 02/09/11 11:48 Prepared: 02/15/11 00:00 Analyzed: 02/15/11 13:32

Solids: Preparation: 5030B Dilution: 1

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene	1.94	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	10.6	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	0.284	0.250	0.500	1.00	J
95-63-6	1,2,4-Trimethylbenzene	0.391	0.250	0.500	1.00	J
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene	0.989	0.500	1.00	2.00	J
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.07	100	75 - 120	
Dibromofluoromethane	30.00	32.08	107	85 - 115	
1,2-Dichloroethane-d4	30.00	29.98	99.9	70 - 120	
Toluene-d8	30.00	27.77	92.6	85 - 120	

ANALYSIS DATA SHEET

GW0030

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102097-02 File ID: 0209702.D

Sampled: 02/09/11 14:52 Prepared: 02/15/11 00:00 Analyzed: 02/15/11 14:01

Solids: Preparation: 5030B Dilution: 1

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Q, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0030

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102097-02 File ID: 0209702.D

Sampled: 02/09/11 14:52 Prepared: 02/15/11 00:00 Analyzed: 02/15/11 14:01

Solids: Preparation: 5030B Dilution: 1

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	9.48	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.90	103	75 - 120	
Dibromofluoromethane	30.00	32.52	108	85 - 115	
1,2-Dichloroethane-d4	30.00	29.85	99.5	70 - 120	
Toluene-d8	30.00	27.94	93.1	85 - 120	

ANALYSIS DATA SHEET

GW8011-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102097-03 File ID: 0209703.D

Sampled: 02/09/11 08:00 Prepared: 02/15/11 00:00 Analyzed: 02/15/11 12:03

Solids: Preparation: 5030B Dilution: 1

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Q, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.349	0.250	0.500	1.00	J, B

ANALYSIS DATA SHEET

GW8011-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102097-03 File ID: 0209703.D

Sampled: 02/09/11 08:00 Prepared: 02/15/11 00:00 Analyzed: 02/15/11 12:03

Solids: Preparation: 5030B Dilution: 1

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.24	107	75 - 120	
Dibromofluoromethane	30.00	31.04	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.82	99.4	70 - 120	
Toluene-d8	30.00	29.57	98.6	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04509
Instrument: MS-VOA4
Calibration: 1039001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04509-CCV1) ug/L				Lab File ID: 0212CCVE.D		Analyzed: 02/12/11 23:38		
Bromofluorobenzene	30.00	96.9	80 - 120	16.459	16.459	0.0000	+/-1.000	
Dibromofluoromethane	30.00	104	80 - 120	8.866	8.866	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	106	80 - 120	10.108	10.108	0.0000	+/-1.000	
Toluene-d8	30.00	93.7	80 - 120	14.132	14.132	0.0000	+/-1.000	
LCS (1B12014-BS1) ug/L				Lab File ID: 0212LS1E.D		Analyzed: 02/13/11 00:08		
Bromofluorobenzene	30.00	101	75 - 120	16.45	16.459	-0.0090	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	8.837	8.866	-0.0290	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.08	10.108	-0.0280	+/-1.000	
Toluene-d8	30.00	97.2	85 - 120	14.123	14.132	-0.0090	+/-1.000	
Blank (1B12014-BLK1) ug/L				Lab File ID: 0212BL1E.D		Analyzed: 02/13/11 01:36		
Bromofluorobenzene	30.00	96.7	75 - 120	16.459	16.459	0.0000	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	8.846	8.866	-0.0200	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.4	70 - 120	10.079	10.108	-0.0290	+/-1.000	
Toluene-d8	30.00	91.9	85 - 120	14.122	14.132	-0.0100	+/-1.000	
GW8009-TB (1102062-05) ug/L				Lab File ID: 0206205.D		Analyzed: 02/13/11 02:35		
Bromofluorobenzene	30.00	97.9	75 - 120	16.461	16.459	0.0020	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	8.966	8.866	0.1000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.199	10.108	0.0910	+/-1.000	
Toluene-d8	30.00	88.0	85 - 120	14.143	14.132	0.0110	+/-1.000	
GW8008-TB (1102063-03) ug/L				Lab File ID: 0206303.D		Analyzed: 02/13/11 03:04		
Bromofluorobenzene	30.00	104	75 - 120	16.46	16.459	0.0010	+/-1.000	
Dibromofluoromethane	30.00	108	85 - 115	8.877	8.866	0.0110	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.11	10.108	0.0020	+/-1.000	
Toluene-d8	30.00	95.7	85 - 120	14.133	14.132	0.0010	+/-1.000	
GW0014 (1102062-01) ug/L				Lab File ID: 0206201.D		Analyzed: 02/13/11 04:33		
Bromofluorobenzene	30.00	109	75 - 120	16.46	16.459	0.0010	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	8.897	8.866	0.0310	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	10.139	10.108	0.0310	+/-1.000	
Toluene-d8	30.00	99.4	85 - 120	14.133	14.132	0.0010	+/-1.000	
GW0028 (1102062-03) ug/L				Lab File ID: 0206203.D		Analyzed: 02/13/11 05:03		
Bromofluorobenzene	30.00	99.6	75 - 120	16.459	16.459	0.0000	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	8.866	8.866	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.098	10.108	-0.0100	+/-1.000	
Toluene-d8	30.00	89.7	85 - 120	14.132	14.132	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04509
Instrument: MS-VOA4
Calibration: 1039001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0029 (1102062-06) ug/L				Lab File ID: 0206206.D		Analyzed: 02/13/11 05:32		
Bromofluorobenzene	30.00	105	75 - 120	16.454	16.459	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	8.871	8.866	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.4	70 - 120	10.123	10.108	0.0150	+/-1.000	
Toluene-d8	30.00	97.9	85 - 120	14.137	14.132	0.0050	+/-1.000	
GW0033 (1102063-01) ug/L				Lab File ID: 0206301.D		Analyzed: 02/13/11 06:02		
Bromofluorobenzene	30.00	104	75 - 120	16.46	16.459	0.0010	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	8.867	8.866	0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.5	70 - 120	10.099	10.108	-0.0090	+/-1.000	
Toluene-d8	30.00	95.2	85 - 120	14.133	14.132	0.0010	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04609
Instrument: MS-VOA4
Calibration: 1039001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04609-CCV1) ug/L				Lab File ID: 0214CCVE.D		Analyzed: 02/14/11 20:45		
Bromofluorobenzene	30.00	105	80 - 120	16.454	16.454	0.0000	+/-1.000	
Dibromofluoromethane	30.00	102	80 - 120	8.9	8.9	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	80 - 120	10.123	10.123	0.0000	+/-1.000	
Toluene-d8	30.00	91.6	80 - 120	14.136	14.136	0.0000	+/-1.000	
LCS (1B14003-BS1) ug/L				Lab File ID: 0214LS1E.D		Analyzed: 02/14/11 21:14		
Bromofluorobenzene	30.00	96.2	75 - 120	16.445	16.454	-0.0090	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	8.823	8.9	-0.0770	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	10.065	10.123	-0.0580	+/-1.000	
Toluene-d8	30.00	95.6	85 - 120	14.118	14.136	-0.0180	+/-1.000	
Blank (1B14003-BLK1) ug/L				Lab File ID: 0214BL1E.D		Analyzed: 02/14/11 23:12		
Bromofluorobenzene	30.00	101	75 - 120	16.453	16.454	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	100	85 - 115	8.909	8.9	0.0090	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	10.142	10.123	0.0190	+/-1.000	
Toluene-d8	30.00	94.7	85 - 120	14.136	14.136	0.0000	+/-1.000	
GW8010-TB (1102076-08) ug/L				Lab File ID: 0207608.D		Analyzed: 02/14/11 23:41		
Bromofluorobenzene	30.00	107	75 - 120	16.449	16.454	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	8.846	8.9	-0.0540	+/-1.000	
1,2-Dichloroethane-d4	30.00	93.4	70 - 120	10.078	10.123	-0.0450	+/-1.000	
Toluene-d8	30.00	98.2	85 - 120	14.121	14.136	-0.0150	+/-1.000	
GW8001-RB (1102076-06) ug/L				Lab File ID: 0207606.D		Analyzed: 02/15/11 01:10		
Bromofluorobenzene	30.00	101	75 - 120	16.45	16.454	-0.0040	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	8.837	8.9	-0.0630	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	10.07	10.123	-0.0530	+/-1.000	
Toluene-d8	30.00	91.6	85 - 120	14.123	14.136	-0.0130	+/-1.000	
GW8001-AB (1102076-05) ug/L				Lab File ID: 0207605.D		Analyzed: 02/15/11 02:39		
Bromofluorobenzene	30.00	99.1	75 - 120	16.455	16.454	0.0010	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	8.832	8.9	-0.0680	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.055	10.123	-0.0680	+/-1.000	
Toluene-d8	30.00	90.0	85 - 120	14.118	14.136	-0.0180	+/-1.000	
GW0025 (1102076-01) ug/L				Lab File ID: 0207601.D		Analyzed: 02/15/11 04:37		
Bromofluorobenzene	30.00	106	75 - 120	16.453	16.454	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	114	85 - 115	8.89	8.9	-0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	10.112	10.123	-0.0110	+/-1.000	
Toluene-d8	30.00	91.9	85 - 120	14.126	14.136	-0.0100	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04609
Instrument: MS-VOA4
Calibration: 1039001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0027 (1102076-03) ug/L				Lab File ID: 0207603.D		Analyzed: 02/15/11 05:07		
Bromofluorobenzene	30.00	102	75 - 120	16.45	16.454	-0.0040	+/-1.000	
Dibromofluoromethane	30.00	115	85 - 115	8.857	8.9	-0.0430	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	10.09	10.123	-0.0330	+/-1.000	
Toluene-d8	30.00	94.0	85 - 120	14.123	14.136	-0.0130	+/-1.000	
LCS Dup (1B14003-BSD1) ug/L				Lab File ID: 0214LD1E.D		Analyzed: 02/15/11 08:04		
Bromofluorobenzene	30.00	98.9	75 - 120	16.45	16.454	-0.0040	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	8.857	8.9	-0.0430	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	10.089	10.123	-0.0340	+/-1.000	
Toluene-d8	30.00	93.7	85 - 120	14.123	14.136	-0.0130	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04702
Instrument: MS-VOA3
Calibration: 1042001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04702-CCV1) ug/L				Lab File ID: 0215CCV1.D		Analyzed: 02/15/11 06:36		
Bromofluorobenzene	30.00	101	80 - 120	16.971	16.971	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	80 - 120	9.895	9.895	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	80 - 120	10.978	10.978	0.0000	+/-1.000	
Toluene-d8	30.00	96.5	80 - 120	14.622	14.622	0.0000	+/-1.000	
LCS (1B15001-BS1) ug/L				Lab File ID: 0215LS1.D		Analyzed: 02/15/11 07:36		
Bromofluorobenzene	30.00	103	75 - 120	16.965	16.971	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	9.883	9.895	-0.0120	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.9	70 - 120	10.972	10.978	-0.0060	+/-1.000	
Toluene-d8	30.00	102	85 - 120	14.623	14.622	0.0010	+/-1.000	
Blank (1B15001-BLK1) ug/L				Lab File ID: 0215BL1.D		Analyzed: 02/15/11 09:32		
Bromofluorobenzene	30.00	103	75 - 120	16.965	16.971	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	9.889	9.895	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	100	70 - 120	10.966	10.978	-0.0120	+/-1.000	
Toluene-d8	30.00	99.3	85 - 120	14.622	14.622	0.0000	+/-1.000	
GW8012-TB (1102088-05) ug/L				Lab File ID: 0208805.D		Analyzed: 02/15/11 10:02		
Bromofluorobenzene	30.00	105	75 - 120	16.965	16.971	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	9.889	9.895	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.6	70 - 120	10.972	10.978	-0.0060	+/-1.000	
Toluene-d8	30.00	102	85 - 120	14.622	14.622	0.0000	+/-1.000	
GW0023 (1102088-01) ug/L				Lab File ID: 0208801.D		Analyzed: 02/15/11 12:31		
Bromofluorobenzene	30.00	102	75 - 120	16.971	16.971	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	9.889	9.895	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.1	70 - 120	10.978	10.978	0.0000	+/-1.000	
Toluene-d8	30.00	101	85 - 120	14.622	14.622	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04703
Instrument: MS-VOA3
Calibration: 1042001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04703-CCV1) ug/L				Lab File ID: 0215CCVE.D		Analyzed: 02/15/11 18:28		
Bromofluorobenzene	30.00	99.9	80 - 120	16.977	16.977	0.0000	+/-1.000	
Dibromofluoromethane	30.00	102	80 - 120	9.914	9.914	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.5	80 - 120	10.991	10.991	0.0000	+/-1.000	
Toluene-d8	30.00	97.4	80 - 120	14.629	14.629	0.0000	+/-1.000	
LCS (1B15004-BS1) ug/L				Lab File ID: 0215LS1E.D		Analyzed: 02/15/11 18:58		
Bromofluorobenzene	30.00	104	75 - 120	16.971	16.977	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	9.902	9.914	-0.0120	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.99	10.991	-0.0010	+/-1.000	
Toluene-d8	30.00	98.4	85 - 120	14.628	14.629	-0.0010	+/-1.000	
Blank (1B15004-BLK1) ug/L				Lab File ID: 0215BLE.D		Analyzed: 02/15/11 20:25		
Bromofluorobenzene	30.00	103	75 - 120	16.977	16.977	0.0000	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	9.901	9.914	-0.0130	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.5	70 - 120	10.984	10.991	-0.0070	+/-1.000	
Toluene-d8	30.00	101	85 - 120	14.628	14.629	-0.0010	+/-1.000	
GW0026 (1102088-03) ug/L				Lab File ID: 0208803.D		Analyzed: 02/15/11 20:54		
Bromofluorobenzene	30.00	104	75 - 120	16.971	16.977	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	9.902	9.914	-0.0120	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	10.984	10.991	-0.0070	+/-1.000	
Toluene-d8	30.00	102	85 - 120	14.629	14.629	0.0000	+/-1.000	
Matrix Spike (1B15004-MS1) ug/L				Lab File ID: 0208803M.D		Analyzed: 02/16/11 01:52		
Bromofluorobenzene	30.00	102	75 - 120	16.977	16.977	0.0000	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	9.895	9.914	-0.0190	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.984	10.991	-0.0070	+/-1.000	
Toluene-d8	30.00	98.4	85 - 120	14.628	14.629	-0.0010	+/-1.000	
Matrix Spike Dup (1B15004-MSD1) ug/L				Lab File ID: 0208803S.D		Analyzed: 02/16/11 02:21		
Bromofluorobenzene	30.00	101	75 - 120	16.977	16.977	0.0000	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	9.908	9.914	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.984	10.991	-0.0070	+/-1.000	
Toluene-d8	30.00	96.4	85 - 120	14.628	14.629	-0.0010	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04705
Instrument: MS-VOA4
Calibration: 1039001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04705-CCV1) ug/L				Lab File ID: 0215CCV1.D		Analyzed: 02/15/11 09:18		
Bromofluorobenzene	30.00	100	80 - 120	16.453	16.453	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	80 - 120	8.831	8.831	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	80 - 120	10.063	10.063	0.0000	+/-1.000	
Toluene-d8	30.00	96.4	80 - 120	14.116	14.116	0.0000	+/-1.000	
LCS (1B15006-BS1) ug/L				Lab File ID: 0215LS1.D		Analyzed: 02/15/11 10:05		
Bromofluorobenzene	30.00	101	75 - 120	16.454	16.453	0.0010	+/-1.000	
Dibromofluoromethane	30.00	96.5	85 - 115	8.91	8.831	0.0790	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.143	10.063	0.0800	+/-1.000	
Toluene-d8	30.00	94.4	85 - 120	14.137	14.116	0.0210	+/-1.000	
Blank (1B15006-BLK1) ug/L				Lab File ID: 0215BL1.D		Analyzed: 02/15/11 11:33		
Bromofluorobenzene	30.00	108	75 - 120	16.454	16.453	0.0010	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	8.881	8.831	0.0500	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	10.114	10.063	0.0510	+/-1.000	
Toluene-d8	30.00	96.3	85 - 120	14.127	14.116	0.0110	+/-1.000	
GW8011-TB (1102097-03) ug/L				Lab File ID: 0209703.D		Analyzed: 02/15/11 12:03		
Bromofluorobenzene	30.00	107	75 - 120	16.453	16.453	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	8.89	8.831	0.0590	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.4	70 - 120	10.112	10.063	0.0490	+/-1.000	
Toluene-d8	30.00	98.6	85 - 120	14.126	14.116	0.0100	+/-1.000	
GW0024 (1102097-01) ug/L				Lab File ID: 0209701.D		Analyzed: 02/15/11 13:32		
Bromofluorobenzene	30.00	100	75 - 120	16.454	16.453	0.0010	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	8.979	8.831	0.1480	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.9	70 - 120	10.202	10.063	0.1390	+/-1.000	
Toluene-d8	30.00	92.6	85 - 120	14.147	14.116	0.0310	+/-1.000	
GW0030 (1102097-02) ug/L				Lab File ID: 0209702.D		Analyzed: 02/15/11 14:01		
Bromofluorobenzene	30.00	103	75 - 120	16.459	16.453	0.0060	+/-1.000	
Dibromofluoromethane	30.00	108	85 - 115	8.866	8.831	0.0350	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.5	70 - 120	10.108	10.063	0.0450	+/-1.000	
Toluene-d8	30.00	93.1	85 - 120	14.132	14.116	0.0160	+/-1.000	
LCS Dup (1B15006-BSD1) ug/L				Lab File ID: 0215LD1.D		Analyzed: 02/15/11 19:30		
Bromofluorobenzene	30.00	102	75 - 120	16.454	16.453	0.0010	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	8.861	8.831	0.0300	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.1	70 - 120	10.094	10.063	0.0310	+/-1.000	
Toluene-d8	30.00	94.3	85 - 120	14.127	14.116	0.0110	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B12014
Laboratory ID: 1B12014-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	117	117	40 - 140
Benzene	50.00	51.6	103	80 - 120
Bromobenzene	50.00	52.1	104	75 - 125
Bromochloromethane	50.00	53.9	108	65 - 130
Bromodichloromethane	50.00	56.5	113	75 - 120
Bromoform	50.00	54.0	108	70 - 130
Bromomethane	50.00	40.7	81.5	30 - 145
n-Butylbenzene	50.00	50.5	101	70 - 135
2-Butanone	100.0	93.9	93.9	30 - 150
sec-Butylbenzene	50.00	51.2	102	70 - 125
tert-Butylbenzene	50.00	51.3	103	70 - 130
Carbon disulfide	50.00	51.5	103	35 - 160
Carbon tetrachloride	50.00	52.8	106	65 - 140
Chlorobenzene	50.00	51.6	103	80 - 120
Chloroethane	50.00	54.6	109	60 - 135
Chloroform	50.00	50.2	100	65 - 135
Chloromethane	50.00	54.3	109	40 - 125
2-Chlorotoluene	50.00	49.3	98.6	75 - 125
4-Chlorotoluene	50.00	49.6	99.3	75 - 130
Dibromochloromethane	50.00	52.4	105	60 - 135
1,2-Dibromo-3-chloropropane	50.00	43.4	86.8	50 - 130
1,2-Dibromoethane (EDB)	50.00	50.7	101	80 - 120
Dibromomethane	50.00	53.5	107	75 - 125
1,2-Dichlorobenzene	50.00	51.1	102	70 - 120
1,3-Dichlorobenzene	50.00	48.9	97.8	75 - 125
1,4-Dichlorobenzene	50.00	50.8	102	75 - 125
Dichlorodifluoromethane	50.00	64.7	129	30 - 155
1,1-Dichloroethane	50.00	52.3	105	70 - 135
1,2-Dichloroethane	50.00	54.8	110	70 - 130
1,1-Dichloroethene	50.00	54.8	110	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B12014
Laboratory ID: 1B12014-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	50.0	100	70 - 125
trans-1,2-Dichloroethene	50.00	50.5	101	60 - 140
1,2-Dichloropropane	50.00	51.5	103	75 - 125
1,3-Dichloropropane	50.00	49.8	99.6	75 - 125
2,2-Dichloropropane	50.00	41.2	82.5	70 - 135
1,1-Dichloropropene	50.00	50.7	101	75 - 130
cis-1,3-Dichloropropene	50.00	49.8	99.7	70 - 130
trans-1,3-Dichloropropene	50.00	55.6	111	55 - 140
Ethylbenzene	50.00	51.7	103	75 - 125
Hexachlorobutadiene	50.00	49.6	99.1	50 - 140
2-Hexanone	100.0	121	121	55 - 130
Isopropylbenzene	50.00	54.2	108	75 - 125
p-Isopropyltoluene	50.00	52.4	105	75 - 130
Methylene chloride	50.00	50.6	101	55 - 140
Naphthalene	50.00	50.1	100	55 - 140
4-Methyl-2-pentanone	100.0	117	117	60 - 135
Methyl t-Butyl Ether	100.0	102	102	65 - 125
n-Propylbenzene	50.00	50.5	101	70 - 130
Styrene	50.00	51.5	103	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.4	98.7	65 - 130
1,1,1,2-Tetrachloroethane	50.00	53.4	107	80 - 130
Tetrachloroethene	50.00	50.9	102	45 - 150
Toluene	50.00	48.7	97.3	75 - 120
1,2,3-Trichlorobenzene	50.00	48.2	96.3	55 - 140
1,2,4-Trichlorobenzene	50.00	49.0	97.9	65 - 135
1,1,2-Trichloroethane	50.00	52.1	104	75 - 125
1,1,1-Trichloroethane	50.00	50.9	102	65 - 130
Trichloroethene	50.00	53.3	107	70 - 125
Trichlorofluoromethane	50.00	53.6	107	60 - 145
1,2,3-Trichloropropane	50.00	47.8	95.7	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B12014	Laboratory ID:	1B12014-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	49.3	98.5	75 - 130
1,2,4-Trimethylbenzene	50.00	51.4	103	75 - 130
Vinyl chloride	50.00	56.5	113	50 - 145
m,p-Xylene	100.0	101	101	75 - 130
o-Xylene	50.00	51.5	103	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B14003
Laboratory ID: 1B14003-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	127	127	40 - 140
Benzene	50.00	54.4	109	80 - 120
Bromobenzene	50.00	52.8	106	75 - 125
Bromochloromethane	50.00	55.3	111	65 - 130
Bromodichloromethane	**50.00**	**61.1**	**122**	**75 - 120**
Bromoform	50.00	56.0	112	70 - 130
Bromomethane	50.00	36.8	73.7	30 - 145
n-Butylbenzene	50.00	49.9	99.8	70 - 135
2-Butanone	100.0	98.1	98.1	30 - 150
sec-Butylbenzene	50.00	54.1	108	70 - 125
tert-Butylbenzene	50.00	53.7	107	70 - 130
Carbon disulfide	50.00	54.6	109	35 - 160
Carbon tetrachloride	50.00	57.7	115	65 - 140
Chlorobenzene	50.00	51.9	104	80 - 120
Chloroethane	50.00	56.7	113	60 - 135
Chloroform	50.00	53.5	107	65 - 135
Chloromethane	50.00	54.3	109	40 - 125
2-Chlorotoluene	50.00	51.6	103	75 - 125
4-Chlorotoluene	50.00	51.9	104	75 - 130
Dibromochloromethane	50.00	54.2	108	60 - 135
1,2-Dibromo-3-chloropropane	50.00	50.5	101	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.3	107	80 - 120
Dibromomethane	50.00	58.5	117	75 - 125
1,2-Dichlorobenzene	50.00	53.3	107	70 - 120
1,3-Dichlorobenzene	50.00	50.6	101	75 - 125
1,4-Dichlorobenzene	50.00	53.5	107	75 - 125
Dichlorodifluoromethane	50.00	67.2	134	30 - 155
1,1-Dichloroethane	50.00	54.8	110	70 - 135
1,2-Dichloroethane	50.00	58.3	117	70 - 130
1,1-Dichloroethene	50.00	58.5	117	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B14003
Laboratory ID: 1B14003-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	53.1	106	70 - 125
trans-1,2-Dichloroethene	50.00	54.3	109	60 - 140
1,2-Dichloropropane	50.00	55.9	112	75 - 125
1,3-Dichloropropane	50.00	50.6	101	75 - 125
2,2-Dichloropropane	50.00	42.0	83.9	70 - 135
1,1-Dichloropropene	50.00	55.5	111	75 - 130
cis-1,3-Dichloropropene	50.00	52.5	105	70 - 130
trans-1,3-Dichloropropene	50.00	57.0	114	55 - 140
Ethylbenzene	50.00	53.1	106	75 - 125
Hexachlorobutadiene	50.00	53.2	106	50 - 140
2-Hexanone	100.0	124	124	55 - 130
Isopropylbenzene	50.00	54.5	109	75 - 125
p-Isopropyltoluene	50.00	55.1	110	75 - 130
Methylene chloride	50.00	53.9	108	55 - 140
Naphthalene	50.00	58.7	117	55 - 140
4-Methyl-2-pentanone	100.0	131	131	60 - 135
Methyl t-Butyl Ether	100.0	111	111	65 - 125
n-Propylbenzene	50.00	53.4	107	70 - 130
Styrene	50.00	52.7	105	65 - 135
1,1,2,2-Tetrachloroethane	50.00	53.1	106	65 - 130
1,1,1,2-Tetrachloroethane	50.00	53.6	107	80 - 130
Tetrachloroethene	50.00	52.0	104	45 - 150
Toluene	50.00	50.0	100	75 - 120
1,2,3-Trichlorobenzene	50.00	54.0	108	55 - 140
1,2,4-Trichlorobenzene	50.00	53.4	107	65 - 135
1,1,2-Trichloroethane	50.00	50.6	101	75 - 125
1,1,1-Trichloroethane	50.00	55.7	111	65 - 130
Trichloroethene	50.00	57.5	115	70 - 125
Trichlorofluoromethane	50.00	57.6	115	60 - 145
1,2,3-Trichloropropane	50.00	51.9	104	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B14003
Laboratory ID: 1B14003-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	54.1	108	75 - 130
1,2,4-Trimethylbenzene	50.00	54.5	109	75 - 130
Vinyl chloride	50.00	57.6	115	50 - 145
m,p-Xylene	100.0	103	103	75 - 130
o-Xylene	50.00	49.4	98.9	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	121	121	4.74	30	40 - 140
Benzene	50.00	54.9	110	0.871	30	80 - 120
Bromobenzene	50.00	54.2	108	2.61	30	75 - 125
Bromochloromethane	50.00	58.4	117	5.35	30	65 - 130
Bromodichloromethane	**50.00**	**60.3**	**121 ***	**1.30**	**30**	**75 - 120**
Bromoform	50.00	54.0	108	3.60	30	70 - 130
Bromomethane	50.00	42.6	85.2	14.5	30	30 - 145
n-Butylbenzene	50.00	49.5	99.0	0.787	30	70 - 135
2-Butanone	100.0	97.6	97.6	0.562	30	30 - 150
sec-Butylbenzene	50.00	50.1	100	7.54	30	70 - 125
tert-Butylbenzene	50.00	52.1	104	3.01	30	70 - 130
Carbon disulfide	50.00	54.5	109	0.135	30	35 - 160
Carbon tetrachloride	50.00	57.7	115	0.0394	30	65 - 140
Chlorobenzene	50.00	51.6	103	0.623	30	80 - 120
Chloroethane	50.00	44.8	89.7	23.4	30	60 - 135
Chloroform	50.00	55.8	112	4.19	30	65 - 135
Chloromethane	50.00	59.8	120	9.66	30	40 - 125
2-Chlorotoluene	50.00	50.5	101	2.09	30	75 - 125
4-Chlorotoluene	50.00	52.3	105	0.752	30	75 - 130
Dibromochloromethane	50.00	52.9	106	2.42	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	47.0	94.0	7.24	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	51.3	103	3.82	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B14003
Laboratory ID: 1B14003-BSD1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibromomethane	50.00	57.8	116		1.18	30	75 - 125
1,2-Dichlorobenzene	50.00	52.2	104		2.08	30	70 - 120
1,3-Dichlorobenzene	50.00	50.9	102		0.547	30	75 - 125
1,4-Dichlorobenzene	50.00	48.7	97.4		9.50	30	75 - 125
Dichlorodifluoromethane	50.00	66.3	133		1.35	30	30 - 155
1,1-Dichloroethane	50.00	55.0	110		0.324	30	70 - 135
1,2-Dichloroethane	50.00	62.1	124		6.29	30	70 - 130
1,1-Dichloroethene	50.00	58.1	116		0.728	30	70 - 130
cis-1,2-Dichloroethene	50.00	54.8	110		3.07	30	70 - 125
trans-1,2-Dichloroethene	50.00	53.0	106		2.46	30	60 - 140
1,2-Dichloropropane	50.00	51.8	104		7.62	30	75 - 125
1,3-Dichloropropane	50.00	48.3	96.6		4.72	30	75 - 125
2,2-Dichloropropane	**50.00**	**32.8**	**65.6**	*	**24.5**	**30**	**70 - 135**
1,1-Dichloropropene	50.00	54.6	109		1.53	30	75 - 130
cis-1,3-Dichloropropene	50.00	51.5	103		1.98	30	70 - 130
trans-1,3-Dichloropropene	50.00	52.7	105		7.87	30	55 - 140
Ethylbenzene	50.00	50.5	101		4.95	30	75 - 125
Hexachlorobutadiene	50.00	43.3	86.6		20.6	30	50 - 140
2-Hexanone	100.0	108	108		13.2	30	55 - 130
Isopropylbenzene	50.00	54.4	109		0.0641	30	75 - 125
p-Isopropyltoluene	50.00	52.2	104		5.36	30	75 - 130
Methylene chloride	50.00	55.4	111		2.84	30	55 - 140
Naphthalene	50.00	53.1	106		10.2	30	55 - 140
4-Methyl-2-pentanone	100.0	121	121		8.02	30	60 - 135
Methyl t-Butyl Ether	100.0	106	106		4.27	30	65 - 125
n-Propylbenzene	50.00	52.7	105		1.31	30	70 - 130
Styrene	50.00	52.5	105		0.361	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	50.0	99.9		6.11	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	53.9	108		0.610	30	80 - 130
Tetrachloroethene	50.00	48.5	97.0		7.03	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B14003
Laboratory ID: 1B14003-BSD1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	50.00	48.1	96.3	3.88	30	75 - 120
1,2,3-Trichlorobenzene	50.00	51.5	103	4.74	30	55 - 140
1,2,4-Trichlorobenzene	50.00	51.1	102	4.35	30	65 - 135
1,1,2-Trichloroethane	50.00	47.8	95.5	5.68	30	75 - 125
1,1,1-Trichloroethane	50.00	57.4	115	3.00	30	65 - 130
Trichloroethene	50.00	53.6	107	6.97	30	70 - 125
Trichlorofluoromethane	50.00	57.9	116	0.377	30	60 - 145
1,2,3-Trichloropropane	50.00	50.9	102	1.80	30	75 - 125
1,3,5-Trimethylbenzene	50.00	50.3	101	7.18	30	75 - 130
1,2,4-Trimethylbenzene	50.00	51.9	104	4.93	30	75 - 130
Vinyl chloride	50.00	61.6	123	6.60	30	50 - 145
m,p-Xylene	100.0	102	102	0.906	30	75 - 130
o-Xylene	50.00	50.8	102	2.72	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B15001
Laboratory ID: 1B15001-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	102	102	40 - 140
Benzene	50.00	49.7	99.4	80 - 120
Bromobenzene	50.00	50.5	101	75 - 125
Bromochloromethane	50.00	52.7	105	65 - 130
Bromodichloromethane	**50.00**	**60.6**	**121**	**75 - 120**
Bromoform	50.00	52.6	105	70 - 130
Bromomethane	50.00	35.7	71.4	30 - 145
n-Butylbenzene	50.00	49.9	99.9	70 - 135
2-Butanone	100.0	97.0	97.0	30 - 150
sec-Butylbenzene	50.00	50.7	101	70 - 125
tert-Butylbenzene	50.00	52.2	104	70 - 130
Carbon disulfide	50.00	55.0	110	35 - 160
Carbon tetrachloride	50.00	53.5	107	65 - 140
Chlorobenzene	50.00	52.6	105	80 - 120
Chloroethane	50.00	51.5	103	60 - 135
Chloroform	50.00	51.8	104	65 - 135
Chloromethane	50.00	54.6	109	40 - 125
2-Chlorotoluene	50.00	49.0	98.1	75 - 125
4-Chlorotoluene	50.00	49.9	99.8	75 - 130
Dibromochloromethane	50.00	55.0	110	60 - 135
1,2-Dibromo-3-chloropropane	50.00	45.1	90.1	50 - 130
1,2-Dibromoethane (EDB)	50.00	52.7	105	80 - 120
Dibromomethane	50.00	51.9	104	75 - 125
1,2-Dichlorobenzene	50.00	50.8	102	70 - 120
1,3-Dichlorobenzene	50.00	50.5	101	75 - 125
1,4-Dichlorobenzene	50.00	48.9	97.8	75 - 125
Dichlorodifluoromethane	50.00	77.1	154	30 - 155
1,1-Dichloroethane	50.00	51.3	103	70 - 135
1,2-Dichloroethane	50.00	53.3	107	70 - 130
1,1-Dichloroethene	50.00	55.5	111	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B15001
Laboratory ID: 1B15001-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	50.2	100	70 - 125
trans-1,2-Dichloroethene	50.00	52.5	105	60 - 140
1,2-Dichloropropane	50.00	50.7	101	75 - 125
1,3-Dichloropropane	50.00	50.2	100	75 - 125
2,2-Dichloropropane	50.00	52.1	104	70 - 135
1,1-Dichloropropene	50.00	51.8	104	75 - 130
cis-1,3-Dichloropropene	50.00	51.0	102	70 - 130
trans-1,3-Dichloropropene	50.00	61.0	122	55 - 140
Ethylbenzene	50.00	51.6	103	75 - 125
Hexachlorobutadiene	50.00	51.0	102	50 - 140
2-Hexanone	100.0	102	102	55 - 130
Isopropylbenzene	50.00	55.5	111	75 - 125
p-Isopropyltoluene	50.00	50.5	101	75 - 130
Methylene chloride	50.00	49.9	99.9	55 - 140
Naphthalene	50.00	46.4	92.8	55 - 140
4-Methyl-2-pentanone	100.0	114	114	60 - 135
Methyl t-Butyl Ether	100.0	95.6	95.6	65 - 125
n-Propylbenzene	50.00	51.4	103	70 - 130
Styrene	50.00	53.0	106	65 - 135
1,1,2,2-Tetrachloroethane	50.00	46.5	93.0	65 - 130
1,1,1,2-Tetrachloroethane	50.00	63.0	126	80 - 130
Tetrachloroethene	50.00	51.8	104	45 - 150
Toluene	50.00	50.8	102	75 - 120
1,2,3-Trichlorobenzene	50.00	45.5	90.9	55 - 140
1,2,4-Trichlorobenzene	50.00	46.6	93.2	65 - 135
1,1,2-Trichloroethane	50.00	49.6	99.3	75 - 125
1,1,1-Trichloroethane	50.00	54.9	110	65 - 130
Trichloroethene	50.00	51.8	104	70 - 125
Trichlorofluoromethane	50.00	57.6	115	60 - 145
1,2,3-Trichloropropane	50.00	52.1	104	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15001	Laboratory ID:	1B15001-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	51.0	102	75 - 130
1,2,4-Trimethylbenzene	50.00	51.8	104	75 - 130
Vinyl chloride	50.00	55.5	111	50 - 145
m,p-Xylene	100.0	96.0	96.0	75 - 130
o-Xylene	50.00	49.7	99.4	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B15004
Laboratory ID: 1B15004-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	107	107	40 - 140
Benzene	50.00	51.1	102	80 - 120
Bromobenzene	50.00	52.8	106	75 - 125
Bromochloromethane	50.00	53.6	107	65 - 130
Bromodichloromethane	**50.00**	**63.2**	**126**	**75 - 120**
Bromoform	50.00	56.2	112	70 - 130
Bromomethane	50.00	36.2	72.4	30 - 145
n-Butylbenzene	50.00	50.6	101	70 - 135
2-Butanone	100.0	94.6	94.6	30 - 150
sec-Butylbenzene	50.00	51.7	103	70 - 125
tert-Butylbenzene	50.00	53.2	106	70 - 130
Carbon disulfide	50.00	55.5	111	35 - 160
Carbon tetrachloride	50.00	54.2	108	65 - 140
Chlorobenzene	50.00	53.0	106	80 - 120
Chloroethane	50.00	53.4	107	60 - 135
Chloroform	50.00	53.0	106	65 - 135
Chloromethane	50.00	55.2	110	40 - 125
2-Chlorotoluene	50.00	50.6	101	75 - 125
4-Chlorotoluene	50.00	53.0	106	75 - 130
Dibromochloromethane	50.00	56.4	113	60 - 135
1,2-Dibromo-3-chloropropane	50.00	49.8	99.5	50 - 130
1,2-Dibromoethane (EDB)	50.00	55.0	110	80 - 120
Dibromomethane	50.00	55.0	110	75 - 125
1,2-Dichlorobenzene	50.00	53.2	106	70 - 120
1,3-Dichlorobenzene	50.00	53.1	106	75 - 125
1,4-Dichlorobenzene	50.00	50.9	102	75 - 125
Dichlorodifluoromethane	50.00	72.3	145	30 - 155
1,1-Dichloroethane	50.00	52.0	104	70 - 135
1,2-Dichloroethane	50.00	57.1	114	70 - 130
1,1-Dichloroethene	50.00	54.9	110	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B15004
Laboratory ID: 1B15004-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	51.1	102	70 - 125
trans-1,2-Dichloroethene	50.00	51.5	103	60 - 140
1,2-Dichloropropane	50.00	52.1	104	75 - 125
1,3-Dichloropropane	50.00	52.7	105	75 - 125
2,2-Dichloropropane	50.00	45.6	91.2	70 - 135
1,1-Dichloropropene	50.00	52.2	104	75 - 130
cis-1,3-Dichloropropene	50.00	51.3	103	70 - 130
trans-1,3-Dichloropropene	50.00	60.2	120	55 - 140
Ethylbenzene	50.00	52.1	104	75 - 125
Hexachlorobutadiene	50.00	54.3	109	50 - 140
2-Hexanone	100.0	98.1	98.1	55 - 130
Isopropylbenzene	50.00	55.1	110	75 - 125
p-Isopropyltoluene	50.00	52.3	105	75 - 130
Methylene chloride	50.00	51.2	102	55 - 140
Naphthalene	50.00	52.4	105	55 - 140
4-Methyl-2-pentanone	100.0	111	111	60 - 135
Methyl t-Butyl Ether	100.0	103	103	65 - 125
n-Propylbenzene	50.00	51.8	104	70 - 130
Styrene	50.00	55.3	111	65 - 135
1,1,2,2-Tetrachloroethane	50.00	51.7	103	65 - 130
1,1,1,2-Tetrachloroethane	50.00	64.4	129	80 - 130
Tetrachloroethene	50.00	51.1	102	45 - 150
Toluene	50.00	50.3	101	75 - 120
1,2,3-Trichlorobenzene	50.00	50.3	101	55 - 140
1,2,4-Trichlorobenzene	50.00	49.1	98.3	65 - 135
1,1,2-Trichloroethane	50.00	52.7	105	75 - 125
1,1,1-Trichloroethane	50.00	56.2	112	65 - 130
Trichloroethene	50.00	52.8	106	70 - 125
Trichlorofluoromethane	50.00	57.1	114	60 - 145
1,2,3-Trichloropropane	50.00	54.8	110	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15004	Laboratory ID:	1B15004-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	52.4	105	75 - 130
1,2,4-Trimethylbenzene	50.00	53.1	106	75 - 130
Vinyl chloride	50.00	55.6	111	50 - 145
m,p-Xylene	100.0	97.0	97.0	75 - 130
o-Xylene	50.00	50.3	101	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B15006
Laboratory ID: 1B15006-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	105	105	40 - 140
Benzene	50.00	51.2	102	80 - 120
Bromobenzene	50.00	54.3	109	75 - 125
Bromochloromethane	50.00	55.4	111	65 - 130
Bromodichloromethane	50.00	58.0	116	75 - 120
Bromoform	50.00	56.2	112	70 - 130
Bromomethane	50.00	45.1	90.1	30 - 145
n-Butylbenzene	50.00	49.5	99.0	70 - 135
2-Butanone	100.0	97.8	97.8	30 - 150
sec-Butylbenzene	50.00	50.8	102	70 - 125
tert-Butylbenzene	50.00	51.2	102	70 - 130
Carbon disulfide	50.00	54.7	109	35 - 160
Carbon tetrachloride	50.00	51.1	102	65 - 140
Chlorobenzene	50.00	52.7	105	80 - 120
Chloroethane	50.00	55.8	112	60 - 135
Chloroform	50.00	51.4	103	65 - 135
Chloromethane	50.00	56.3	113	40 - 125
2-Chlorotoluene	50.00	50.0	99.9	75 - 125
4-Chlorotoluene	50.00	52.6	105	75 - 130
Dibromochloromethane	50.00	53.2	106	60 - 135
1,2-Dibromo-3-chloropropane	50.00	45.9	91.8	50 - 130
1,2-Dibromoethane (EDB)	50.00	52.8	106	80 - 120
Dibromomethane	50.00	54.0	108	75 - 125
1,2-Dichlorobenzene	50.00	51.4	103	70 - 120
1,3-Dichlorobenzene	50.00	57.3	115	75 - 125
1,4-Dichlorobenzene	50.00	46.9	93.7	75 - 125
Dichlorodifluoromethane	50.00	63.0	126	30 - 155
1,1-Dichloroethane	50.00	53.1	106	70 - 135
1,2-Dichloroethane	50.00	55.1	110	70 - 130
1,1-Dichloroethene	50.00	56.8	114	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B15006
Laboratory ID: 1B15006-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	51.9	104	70 - 125
trans-1,2-Dichloroethene	50.00	54.5	109	60 - 140
1,2-Dichloropropane	50.00	50.6	101	75 - 125
1,3-Dichloropropane	50.00	48.8	97.7	75 - 125
2,2-Dichloropropane	50.00	51.5	103	70 - 135
1,1-Dichloropropene	50.00	50.4	101	75 - 130
cis-1,3-Dichloropropene	50.00	52.4	105	70 - 130
trans-1,3-Dichloropropene	50.00	57.2	114	55 - 140
Ethylbenzene	50.00	55.0	110	75 - 125
Hexachlorobutadiene	50.00	50.3	101	50 - 140
2-Hexanone	100.0	109	109	55 - 130
Isopropylbenzene	50.00	54.9	110	75 - 125
p-Isopropyltoluene	50.00	54.4	109	75 - 130
Methylene chloride	50.00	53.4	107	55 - 140
Naphthalene	50.00	52.1	104	55 - 140
4-Methyl-2-pentanone	100.0	109	109	60 - 135
Methyl t-Butyl Ether	100.0	107	107	65 - 125
n-Propylbenzene	50.00	53.0	106	70 - 130
Styrene	50.00	57.3	115	65 - 135
1,1,2,2-Tetrachloroethane	50.00	51.5	103	65 - 130
1,1,1,2-Tetrachloroethane	50.00	53.0	106	80 - 130
Tetrachloroethene	50.00	51.2	102	45 - 150
Toluene	50.00	51.8	104	75 - 120
1,2,3-Trichlorobenzene	50.00	53.4	107	55 - 140
1,2,4-Trichlorobenzene	50.00	50.7	101	65 - 135
1,1,2-Trichloroethane	50.00	48.0	96.0	75 - 125
1,1,1-Trichloroethane	50.00	51.9	104	65 - 130
Trichloroethene	50.00	51.5	103	70 - 125
Trichlorofluoromethane	50.00	52.3	105	60 - 145
1,2,3-Trichloropropane	50.00	53.0	106	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B15006
Laboratory ID: 1B15006-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	51.5	103	75 - 130
1,2,4-Trimethylbenzene	50.00	52.5	105	75 - 130
Vinyl chloride	50.00	55.2	110	50 - 145
m,p-Xylene	100.0	104	104	75 - 130
o-Xylene	50.00	52.5	105	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	108	108	2.90	30	40 - 140
Benzene	50.00	52.8	106	3.16	30	80 - 120
Bromobenzene	50.00	53.5	107	1.55	30	75 - 125
Bromochloromethane	50.00	54.5	109	1.58	30	65 - 130
Bromodichloromethane	**50.00**	**61.6**	**123 ***	**6.10**	**30**	**75 - 120**
Bromoform	50.00	55.2	110	1.85	30	70 - 130
Bromomethane	50.00	28.5	56.9	45.2 *	30	30 - 145
n-Butylbenzene	50.00	50.3	101	1.58	30	70 - 135
2-Butanone	100.0	112	112	13.4	30	30 - 150
sec-Butylbenzene	50.00	52.6	105	3.41	30	70 - 125
tert-Butylbenzene	50.00	53.3	107	4.09	30	70 - 130
Carbon disulfide	50.00	54.4	109	0.610	30	35 - 160
Carbon tetrachloride	50.00	57.0	114	10.8	30	65 - 140
Chlorobenzene	50.00	51.7	103	1.98	30	80 - 120
Chloroethane	50.00	43.2	86.5	25.4	30	60 - 135
Chloroform	50.00	54.1	108	5.05	30	65 - 135
Chloromethane	50.00	51.9	104	8.06	30	40 - 125
2-Chlorotoluene	50.00	52.3	105	4.55	30	75 - 125
4-Chlorotoluene	50.00	55.5	111	5.36	30	75 - 130
Dibromochloromethane	50.00	55.1	110	3.57	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	44.0	88.0	4.20	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.4	107	1.08	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B15006
Laboratory ID: 1B15006-BSD1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibromomethane	50.00	55.9	112	3.30	30	75 - 125
1,2-Dichlorobenzene	50.00	52.2	104	1.49	30	70 - 120
1,3-Dichlorobenzene	50.00	56.7	113	0.965	30	75 - 125
1,4-Dichlorobenzene	50.00	46.4	92.8	0.972	30	75 - 125
Dichlorodifluoromethane	50.00	66.3	133	5.05	30	30 - 155
1,1-Dichloroethane	50.00	54.7	109	2.98	30	70 - 135
1,2-Dichloroethane	50.00	61.2	122	10.5	30	70 - 130
1,1-Dichloroethene	50.00	57.1	114	0.611	30	70 - 130
cis-1,2-Dichloroethene	50.00	51.9	104	0.0845	30	70 - 125
trans-1,2-Dichloroethene	50.00	52.3	105	4.21	30	60 - 140
1,2-Dichloropropane	50.00	51.9	104	2.55	30	75 - 125
1,3-Dichloropropane	50.00	49.3	98.7	1.03	30	75 - 125
2,2-Dichloropropane	50.00	44.9	89.7	13.8	30	70 - 135
1,1-Dichloropropene	50.00	53.5	107	5.97	30	75 - 130
cis-1,3-Dichloropropene	50.00	51.4	103	1.94	30	70 - 130
trans-1,3-Dichloropropene	50.00	55.4	111	3.10	30	55 - 140
Ethylbenzene	50.00	54.0	108	1.78	30	75 - 125
Hexachlorobutadiene	50.00	46.0	92.0	9.00	30	50 - 140
2-Hexanone	100.0	108	108	0.464	30	55 - 130
Isopropylbenzene	50.00	57.1	114	3.99	30	75 - 125
p-Isopropyltoluene	50.00	53.5	107	1.65	30	75 - 130
Methylene chloride	50.00	53.6	107	0.239	30	55 - 140
Naphthalene	50.00	52.6	105	0.991	30	55 - 140
4-Methyl-2-pentanone	100.0	108	108	1.30	30	60 - 135
Methyl t-Butyl Ether	100.0	105	105	2.70	30	65 - 125
n-Propylbenzene	50.00	53.6	107	1.15	30	70 - 130
Styrene	50.00	55.9	112	2.39	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.7	99.4	3.57	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	53.4	107	0.699	30	80 - 130
Tetrachloroethene	50.00	51.8	104	1.13	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B15006
Laboratory ID: 1B15006-BSD1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	50.00	49.6	99.2	4.27	30	75 - 120
1,2,3-Trichlorobenzene	50.00	49.8	99.6	6.87	30	55 - 140
1,2,4-Trichlorobenzene	50.00	50.6	101	0.163	30	65 - 135
1,1,2-Trichloroethane	50.00	48.4	96.9	0.937	30	75 - 125
1,1,1-Trichloroethane	50.00	56.4	113	8.17	30	65 - 130
Trichloroethene	50.00	55.4	111	7.44	30	70 - 125
Trichlorofluoromethane	50.00	57.0	114	8.58	30	60 - 145
1,2,3-Trichloropropane	50.00	49.9	99.8	5.95	30	75 - 125
1,3,5-Trimethylbenzene	50.00	53.3	107	3.26	30	75 - 130
1,2,4-Trimethylbenzene	50.00	56.0	112	6.60	30	75 - 130
Vinyl chloride	50.00	58.7	117	6.20	30	50 - 145
m,p-Xylene	100.0	104	104	0.348	30	75 - 130
o-Xylene	50.00	53.0	106	0.985	30	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B15004

% Solids:

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acetone	100.0	ND	121	121		40 - 140
Benzene	50.00	ND	52.6	105		80 - 120
Bromobenzene	50.00	ND	53.2	106		75 - 125
Bromochloromethane	50.00	ND	54.9	110		65 - 130
Bromodichloromethane	50.00	ND	63.3	127	*	75 - 120
Bromoform	50.00	ND	51.1	102		70 - 130
Bromomethane	50.00	ND	37.8	75.6		30 - 145
n-Butylbenzene	50.00	ND	52.0	104		70 - 135
2-Butanone	100.0	ND	99.2	99.2		30 - 150
sec-Butylbenzene	50.00	ND	53.1	106		70 - 125
tert-Butylbenzene	50.00	ND	54.4	109		70 - 130
Carbon disulfide	50.00	ND	59.0	118		35 - 160
Carbon tetrachloride	50.00	ND	54.6	109		65 - 140
Chlorobenzene	50.00	ND	53.3	107		80 - 120
Chloroethane	50.00	ND	54.4	109		60 - 135
Chloroform	50.00	ND	55.2	110		65 - 135
Chloromethane	50.00	ND	59.5	119		40 - 125
2-Chlorotoluene	50.00	ND	53.0	106		75 - 125
4-Chlorotoluene	50.00	ND	53.4	107		75 - 130
Dibromochloromethane	50.00	ND	53.9	108		60 - 135
1,2-Dibromo-3-chloropropane	50.00	ND	46.2	92.3		50 - 130
1,2-Dibromoethane (EDB)	50.00	ND	54.6	109		80 - 120
Dibromomethane	50.00	ND	56.6	113		75 - 125
1,2-Dichlorobenzene	50.00	ND	53.1	106		70 - 120
1,3-Dichlorobenzene	50.00	ND	53.0	106		75 - 125
1,4-Dichlorobenzene	50.00	ND	52.2	104		75 - 125
Dichlorodifluoromethane	50.00	ND	83.6	167	*	30 - 155
1,1-Dichloroethane	50.00	ND	54.7	109		70 - 135
1,2-Dichloroethane	50.00	ND	58.8	118		70 - 130
1,1-Dichloroethene	50.00	ND	59.0	118		70 - 130
cis-1,2-Dichloroethene	50.00	ND	51.9	104		70 - 125
trans-1,2-Dichloroethene	50.00	ND	54.4	109		60 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0026

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

Batch: 1B15004

% Solids:

SDG: kirtland_003

Project: Kirtland AFB 2011

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dichloropropane	50.00	ND	54.5	109		75 - 125
1,3-Dichloropropane	50.00	ND	52.2	104		75 - 125
2,2-Dichloropropane	50.00	ND	37.4	74.7		70 - 135
1,1-Dichloropropene	50.00	ND	55.7	111		75 - 130
cis-1,3-Dichloropropene	50.00	ND	50.6	101		70 - 130
trans-1,3-Dichloropropene	50.00	ND	57.5	115		55 - 140
Ethylbenzene	50.00	ND	53.6	107		75 - 125
Hexachlorobutadiene	50.00	0.634	49.1	96.9		50 - 140
2-Hexanone	100.0	ND	102	102		55 - 130
Isopropylbenzene	50.00	ND	56.4	113		75 - 125
p-Isopropyltoluene	50.00	ND	53.2	106		75 - 130
Methylene chloride	50.00	ND	53.3	107		55 - 140
Naphthalene	50.00	ND	49.3	98.5		55 - 140
4-Methyl-2-pentanone	100.0	ND	119	119		60 - 135
Methyl t-Butyl Ether	100.0	ND	103	103		65 - 125
n-Propylbenzene	50.00	ND	53.5	107		70 - 130
Styrene	50.00	ND	53.9	108		65 - 135
1,1,2,2-Tetrachloroethane	50.00	ND	49.9	99.9		65 - 130
1,1,1,2-Tetrachloroethane	50.00	ND	62.5	125		80 - 130
Tetrachloroethene	50.00	ND	52.5	105		45 - 150
Toluene	50.00	10.9	61.4	101		75 - 120
1,2,3-Trichlorobenzene	50.00	ND	47.3	94.6		55 - 140
1,2,4-Trichlorobenzene	50.00	ND	47.0	93.9		65 - 135
1,1,2-Trichloroethane	50.00	ND	50.8	102		75 - 125
1,1,1-Trichloroethane	50.00	ND	58.7	117		65 - 130
Trichloroethene	50.00	ND	56.0	112		70 - 125
Trichlorofluoromethane	50.00	ND	63.0	126		60 - 145
1,2,3-Trichloropropane	50.00	ND	55.1	110		75 - 125
1,3,5-Trimethylbenzene	50.00	ND	52.5	105		75 - 130
1,2,4-Trimethylbenzene	50.00	ND	53.3	107		75 - 130
Vinyl chloride	50.00	ND	57.7	115		50 - 145
m,p-Xylene	100.0	ND	99.2	99.2		75 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B15004

% Solids:

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
o-Xylene	50.00	ND	51.2	102		80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B15004

% Solids:

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	129	129	6.47		30	40 - 140
Benzene	50.00	53.0	106	0.817		30	80 - 120
Bromobenzene	50.00	52.7	105	0.936		30	75 - 125
Bromochloromethane	50.00	56.9	114	3.72		30	65 - 130
Bromodichloromethane	50.00	65.9	132	4.14	*	30	75 - 120
Bromoform	50.00	54.2	108	5.99		30	70 - 130
Bromomethane	50.00	40.5	81.0	6.91		30	30 - 145
n-Butylbenzene	50.00	52.3	105	0.642		30	70 - 135
2-Butanone	100.0	107	107	7.35		30	30 - 150
sec-Butylbenzene	50.00	51.5	103	2.99		30	70 - 125
tert-Butylbenzene	50.00	53.5	107	1.63		30	70 - 130
Carbon disulfide	50.00	60.0	120	1.61		30	35 - 160
Carbon tetrachloride	50.00	57.7	115	5.48		30	65 - 140
Chlorobenzene	50.00	53.4	107	0.142		30	80 - 120
Chloroethane	50.00	58.2	116	6.85		30	60 - 135
Chloroform	50.00	57.2	114	3.44		30	65 - 135
Chloromethane	50.00	62.0	124	4.03		30	40 - 125
2-Chlorotoluene	50.00	51.8	104	2.36		30	75 - 125
4-Chlorotoluene	50.00	53.4	107	0.0500		30	75 - 130
Dibromochloromethane	50.00	55.9	112	3.74		30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	49.8	99.7	7.66		30	50 - 130
1,2-Dibromoethane (EDB)	50.00	55.1	110	0.847		30	80 - 120
Dibromomethane	50.00	58.0	116	2.52		30	75 - 125
1,2-Dichlorobenzene	50.00	53.9	108	1.43		30	70 - 120
1,3-Dichlorobenzene	50.00	52.7	105	0.477		30	75 - 125
1,4-Dichlorobenzene	50.00	51.5	103	1.41		30	75 - 125
Dichlorodifluoromethane	50.00	84.4	169	1.05	*	30	30 - 155
1,1-Dichloroethane	50.00	55.8	112	2.07		30	70 - 135
1,2-Dichloroethane	50.00	60.0	120	1.95		30	70 - 130
1,1-Dichloroethene	50.00	59.8	120	1.30		30	70 - 130
cis-1,2-Dichloroethene	50.00	54.0	108	4.01		30	70 - 125
trans-1,2-Dichloroethene	50.00	55.9	112	2.61		30	60 - 140
1,2-Dichloropropane	50.00	53.7	107	1.40		30	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B15004

% Solids:

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,3-Dichloropropane	50.00	53.5	107	2.44		30	75 - 125
2,2-Dichloropropane	50.00	38.5	76.9	2.87		30	70 - 135
1,1-Dichloropropene	50.00	56.2	112	0.762		30	75 - 130
cis-1,3-Dichloropropene	50.00	51.4	103	1.66		30	70 - 130
trans-1,3-Dichloropropene	50.00	57.8	116	0.488		30	55 - 140
Ethylbenzene	50.00	53.3	107	0.549		30	75 - 125
Hexachlorobutadiene	50.00	52.2	103	6.04		30	50 - 140
2-Hexanone	100.0	111	111	8.85		30	55 - 130
Isopropylbenzene	50.00	56.9	114	0.889		30	75 - 125
p-Isopropyltoluene	50.00	53.0	106	0.383		30	75 - 130
Methylene chloride	50.00	53.2	106	0.162		30	55 - 140
Naphthalene	50.00	52.9	106	7.23		30	55 - 140
4-Methyl-2-pentanone	100.0	127	127	6.22		30	60 - 135
Methyl t-Butyl Ether	100.0	107	107	4.44		30	65 - 125
n-Propylbenzene	50.00	53.1	106	0.643		30	70 - 130
Styrene	50.00	54.3	109	0.725		30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	52.2	104	4.36		30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	64.0	128	2.49		30	80 - 130
Tetrachloroethene	50.00	52.5	105	0.0495		30	45 - 150
Toluene	50.00	59.6	97.3	3.05		30	75 - 120
1,2,3-Trichlorobenzene	50.00	48.4	96.8	2.32		30	55 - 140
1,2,4-Trichlorobenzene	50.00	48.9	97.7	3.97		30	65 - 135
1,1,2-Trichloroethane	50.00	52.3	105	2.92		30	75 - 125
1,1,1-Trichloroethane	50.00	59.8	120	1.76		30	65 - 130
Trichloroethene	50.00	57.4	115	2.38		30	70 - 125
Trichlorofluoromethane	50.00	61.1	122	3.07		30	60 - 145
1,2,3-Trichloropropane	50.00	57.8	116	4.71		30	75 - 125
1,3,5-Trimethylbenzene	50.00	52.6	105	0.151		30	75 - 130
1,2,4-Trimethylbenzene	50.00	53.3	107	0.0604		30	75 - 130
Vinyl chloride	50.00	61.7	123	6.78		30	50 - 145
m,p-Xylene	100.0	98.7	98.7	0.494		30	75 - 130
o-Xylene	50.00	51.8	104	1.15		30	80 - 120

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B12014 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0014	1102062-01	02/12/11 00:00	5.00	5.00
GW0028	1102062-03	02/12/11 00:00	5.00	5.00
GW8009-TB	1102062-05	02/12/11 00:00	5.00	5.00
GW0029	1102062-06	02/12/11 00:00	5.00	5.00
GW0033	1102063-01	02/12/11 00:00	5.00	5.00
GW8008-TB	1102063-03	02/12/11 00:00	5.00	5.00
Blank	1B12014-BLK1	02/12/11 00:00	5.00	5.00
LCS	1B12014-BS1	02/12/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B14003 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0025	1102076-01	02/14/11 00:00	5.00	5.00
GW0027	1102076-03	02/14/11 00:00	5.00	5.00
GW8001-AB	1102076-05	02/14/11 00:00	5.00	5.00
GW8001-RB	1102076-06	02/14/11 00:00	5.00	5.00
GW8010-TB	1102076-08	02/14/11 00:00	5.00	5.00
Blank	1B14003-BLK1	02/14/11 00:00	5.00	5.00
LCS	1B14003-BS1	02/14/11 00:00	5.00	5.00
LCS Dup	1B14003-BSD1	02/14/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B15001 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0023	1102088-01	02/15/11 00:00	5.00	5.00
GW8012-TB	1102088-05	02/15/11 00:00	5.00	5.00
Blank	1B15001-BLK1	02/15/11 00:00	5.00	5.00
LCS	1B15001-BS1	02/15/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B15004 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0026	1102088-03	02/15/11 00:00	5.00	5.00
Blank	1B15004-BLK1	02/15/11 00:00	5.00	5.00
LCS	1B15004-BS1	02/15/11 00:00	5.00	5.00
GW0026	1B15004-MS1	02/15/11 00:00	5.00	5.00
GW0026	1B15004-MSD1	02/15/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B15006 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0024	1102097-01	02/15/11 00:00	5.00	5.00
GW0030	1102097-02	02/15/11 00:00	5.00	5.00
GW8011-TB	1102097-03	02/15/11 00:00	5.00	5.00
Blank	1B15006-BLK1	02/15/11 00:00	5.00	5.00
LCS	1B15006-BS1	02/15/11 00:00	5.00	5.00
LCS Dup	1B15006-BSD1	02/15/11 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0207TU1.D	Injection Date:	02/07/11
Instrument ID:	MS-VOA4	Injection Time:	07:00
Sequence:	1B03901	Lab Sample ID:	1B03901-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.9	PASS
75	30 - 60% of 95	43.4	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.08	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	76.7	PASS
175	5 - 9% of 174	7.96	PASS
176	95 - 101% of 174	97.6	PASS
177	5 - 9% of 176	6.59	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0209TU1.D	Injection Date:	02/09/11
Instrument ID:	MS-VOA3	Injection Time:	07:36
Sequence:	1B04204	Lab Sample ID:	1B04204-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.8	PASS
75	30 - 60% of 95	45.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.87	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	92.7	PASS
175	5 - 9% of 174	7.25	PASS
176	95 - 101% of 174	100	PASS
177	5 - 9% of 176	6.27	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0212TU1E.D	Injection Date:	02/12/11
Instrument ID:	MS-VOA4	Injection Time:	23:09
Sequence:	1B04509	Lab Sample ID:	1B04509-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.9	PASS
75	30 - 60% of 95	44.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.41	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	73.3	PASS
175	5 - 9% of 174	7.82	PASS
176	95 - 101% of 174	97.4	PASS
177	5 - 9% of 176	6.08	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0214TU1E.D	Injection Date:	02/14/11
Instrument ID:	MS-VOA4	Injection Time:	20:15
Sequence:	1B04609	Lab Sample ID:	1B04609-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.7	PASS
75	30 - 60% of 95	44.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.56	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	77	PASS
175	5 - 9% of 174	8.22	PASS
176	95 - 101% of 174	95.8	PASS
177	5 - 9% of 176	7.09	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0215TU1.D	Injection Date:	02/15/11
Instrument ID:	MS-VOA3	Injection Time:	06:11
Sequence:	1B04702	Lab Sample ID:	1B04702-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	22.3	PASS
75	30 - 60% of 95	50.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.61	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	78.5	PASS
175	5 - 9% of 174	6.96	PASS
176	95 - 101% of 174	99	PASS
177	5 - 9% of 176	7.26	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0215TU1E.D	Injection Date:	02/15/11
Instrument ID:	MS-VOA3	Injection Time:	18:03
Sequence:	1B04703	Lab Sample ID:	1B04703-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21.4	PASS
75	30 - 60% of 95	50.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.24	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	77.7	PASS
175	5 - 9% of 174	7.58	PASS
176	95 - 101% of 174	97.3	PASS
177	5 - 9% of 176	6.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0215TU1.D	Injection Date:	02/15/11
Instrument ID:	MS-VOA4	Injection Time:	08:49
Sequence:	1B04705	Lab Sample ID:	1B04705-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	25.7	PASS
75	30 - 60% of 95	45.5	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.46	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	56.5	PASS
175	5 - 9% of 174	8.02	PASS
176	95 - 101% of 174	98.8	PASS
177	5 - 9% of 176	7.13	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B03901
Instrument: MS-VOA4
Calibration: 1039001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B03901-TUN1	0207TU1.D	02/07/11 07:00
Cal Standard	1B03901-CAL1	0207CAL1.D	02/07/11 07:30
Cal Standard	1B03901-CAL2	0207CAL2.D	02/07/11 07:59
Cal Standard	1B03901-CAL3	0207CAL3.D	02/07/11 08:29
Cal Standard	1B03901-CAL4	0207CAL4.D	02/07/11 08:59
Cal Standard	1B03901-CAL5	0207CAL5.D	02/07/11 09:29
Cal Standard	1B03901-CAL6	0207CAL6.D	02/07/11 09:58
Cal Standard	1B03901-CAL7	0207CAL7.D	02/07/11 10:28
Cal Standard	1B03901-CAL8	0207CAL8.D	02/07/11 10:58
Cal Standard	1B03901-CAL9	0207CAL9.D	02/07/11 11:27
Initial Cal Check	1B03901-ICV1	0207ICV1.D	02/07/11 11:57
Cal Standard	1B03901-CALA	0207CALA.D	02/07/11 12:56
Cal Standard	1B03901-CALB	0207CALB.D	02/07/11 13:26
Cal Standard	1B03901-CALC	0207CALC.D	02/07/11 13:56
Cal Standard	1B03901-CALD	0207CALD.D	02/07/11 14:25
Cal Standard	1B03901-CALE	0207CALE.D	02/07/11 14:55
Cal Standard	1B03901-CALF	0207CALF.D	02/07/11 15:25
Cal Standard	1B03901-CALG	0207CALG.D	02/07/11 15:54
Cal Standard	1B03901-CALH	0207CALH.D	02/07/11 16:24
Cal Standard	1B03901-CALI	0207CALI.D	02/07/11 16:54
Initial Cal Check	1B03901-ICV4	0207ICV4.D	02/07/11 17:53

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04204	Instrument:	MS-VOA3
Calibration:	1042001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04204-TUN1	0209TU1.D	02/09/11 07:36
Cal Standard	1B04204-CAL1	0209CAL1.D	02/09/11 08:01
Cal Standard	1B04204-CAL2	0209CAL2.D	02/09/11 08:31
Cal Standard	1B04204-CAL3	0209CAL3.D	02/09/11 09:01
Cal Standard	1B04204-CAL4	0209CAL4.D	02/09/11 09:31
Cal Standard	1B04204-CAL5	0209CAL5.D	02/09/11 10:01
Cal Standard	1B04204-CAL6	0209CAL6.D	02/09/11 10:30
Cal Standard	1B04204-CAL7	0209CAL7.D	02/09/11 11:00
Cal Standard	1B04204-CAL8	0209CAL8.D	02/09/11 11:30
Cal Standard	1B04204-CAL9	0209CAL9.D	02/09/11 12:00
Initial Cal Check	1B04204-ICV1	0209ICV1.D	02/09/11 12:30
Cal Standard	1B04204-CALA	0209CALA.D	02/09/11 13:29
Cal Standard	1B04204-CALB	0209CALB.D	02/09/11 13:59
Cal Standard	1B04204-CALC	0209CALC.D	02/09/11 14:29
Cal Standard	1B04204-CALE	0209CALE.D	02/09/11 15:34
Cal Standard	1B04204-CALF	0209CALF.D	02/09/11 16:04
Cal Standard	1B04204-CALG	0209CALG.D	02/09/11 16:34
Cal Standard	1B04204-CALH	0209CALH.D	02/09/11 17:04
Cal Standard	1B04204-CALI	0209CALI.D	02/09/11 17:33
Initial Cal Check	1B04204-ICV3	0209ICV3.D	02/09/11 18:03

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04509	Instrument:	MS-VOA4
Calibration:	1039001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04509-TUN1	0212TU1E.D	02/12/11 23:09
Calibration Check	1B04509-CCV1	0212CCVE.D	02/12/11 23:38
LCS	1B12014-BS1	0212LS1E.D	02/13/11 00:08
Blank	1B12014-BLK1	0212BL1E.D	02/13/11 01:36
GW8009-TB	1102062-05	0206205.D	02/13/11 02:35
GW8008-TB	1102063-03	0206303.D	02/13/11 03:04
GW0014	1102062-01	0206201.D	02/13/11 04:33
GW0028	1102062-03	0206203.D	02/13/11 05:03
GW0029	1102062-06	0206206.D	02/13/11 05:32
GW0033	1102063-01	0206301.D	02/13/11 06:02

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04609	Instrument:	MS-VOA4
Calibration:	1039001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04609-TUN1	0214TU1E.D	02/14/11 20:15
Calibration Check	1B04609-CCV1	0214CCVE.D	02/14/11 20:45
LCS	1B14003-BS1	0214LS1E.D	02/14/11 21:14
Blank	1B14003-BLK1	0214BL1E.D	02/14/11 23:12
GW8010-TB	1102076-08	0207608.D	02/14/11 23:41
GW8001-RB	1102076-06	0207606.D	02/15/11 01:10
GW8001-AB	1102076-05	0207605.D	02/15/11 02:39
GW0025	1102076-01	0207601.D	02/15/11 04:37
GW0027	1102076-03	0207603.D	02/15/11 05:07
LCS Dup	1B14003-BSD1	0214LD1E.D	02/15/11 08:04

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04702	Instrument:	MS-VOA3
Calibration:	1042001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04702-TUN1	0215TU1.D	02/15/11 06:11
Calibration Check	1B04702-CCV1	0215CCV1.D	02/15/11 06:36
LCS	1B15001-BS1	0215LS1.D	02/15/11 07:36
Blank	1B15001-BLK1	0215BL1.D	02/15/11 09:32
GW8012-TB	1102088-05	0208805.D	02/15/11 10:02
GW0023	1102088-01	0208801.D	02/15/11 12:31

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04703	Instrument:	MS-VOA3
Calibration:	1042001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04703-TUN1	0215TU1E.D	02/15/11 18:03
Calibration Check	1B04703-CCV1	0215CCVE.D	02/15/11 18:28
LCS	1B15004-BS1	0215LS1E.D	02/15/11 18:58
Blank	1B15004-BLK1	0215BLE.D	02/15/11 20:25
GW0026	1102088-03	0208803.D	02/15/11 20:54
GW0026	1B15004-MS1	0208803M.D	02/16/11 01:52
GW0026	1B15004-MSD1	0208803S.D	02/16/11 02:21

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04705	Instrument:	MS-VOA4
Calibration:	1039001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04705-TUN1	0215TU1.D	02/15/11 08:49
Calibration Check	1B04705-CCV1	0215CCV1.D	02/15/11 09:18
LCS	1B15006-BS1	0215LS1.D	02/15/11 10:05
Blank	1B15006-BLK1	0215BL1.D	02/15/11 11:33
GW8011-TB	1102097-03	0209703.D	02/15/11 12:03
GW0024	1102097-01	0209701.D	02/15/11 13:32
GW0030	1102097-02	0209702.D	02/15/11 14:01
LCS Dup	1B15006-BSD1	0215LD1.D	02/15/11 19:30

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04509
Instrument: MS-VOA4
Calibration: 1039001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B04509-CCV1)			Lab File ID: 0212CCVE.D			Analyzed: 02/12/11 23:38			
Fluorobenzene	1035568	11.765	1304022	11.784	79	50 - 200	-0.0190	+/-0.50	
Chlorobenzene-d5	421911	15.493	481913	15.512	88	50 - 200	-0.0190	+/-0.50	
1,4-Dichlorobenzene-d4	465529	17.386	491484	17.405	95	50 - 200	-0.0190	+/-0.50	
LCS (1B12014-BS1)			Lab File ID: 0212LS1E.D			Analyzed: 02/13/11 00:08			
Fluorobenzene	1098548	11.756	1035568	11.765	106	50 - 200	-0.0090	+/-0.50	
Chlorobenzene-d5	403101	15.494	421911	15.493	96	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	463296	17.387	465529	17.386	100	50 - 200	0.0010	+/-0.50	
Blank (1B12014-BLK1)			Lab File ID: 0212BL1E.D			Analyzed: 02/13/11 01:36			
Fluorobenzene	1092783	11.755	1035568	11.765	106	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	408207	15.493	421911	15.493	97	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	476740	17.386	465529	17.386	102	50 - 200	0.0000	+/-0.50	
GW8009-TB (1102062-05)			Lab File ID: 0206205.D			Analyzed: 02/13/11 02:35			
Fluorobenzene	1018152	11.806	1035568	11.765	98	50 - 200	0.0410	+/-0.50	
Chlorobenzene-d5	409856	15.504	421911	15.493	97	50 - 200	0.0110	+/-0.50	
1,4-Dichlorobenzene-d4	460896	17.388	465529	17.386	99	50 - 200	0.0020	+/-0.50	
GW8008-TB (1102063-03)			Lab File ID: 0206303.D			Analyzed: 02/13/11 03:04			
Fluorobenzene	1015368	11.776	1035568	11.765	98	50 - 200	0.0110	+/-0.50	
Chlorobenzene-d5	389255	15.494	421911	15.493	92	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	475473	17.387	465529	17.386	102	50 - 200	0.0010	+/-0.50	
GW0014 (1102062-01)			Lab File ID: 0206201.D			Analyzed: 02/13/11 04:33			
Fluorobenzene	1002193	11.786	1035568	11.765	97	50 - 200	0.0210	+/-0.50	
Chlorobenzene-d5	368451	15.494	421911	15.493	87	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	454009	17.387	465529	17.386	98	50 - 200	0.0010	+/-0.50	
GW0028 (1102062-03)			Lab File ID: 0206203.D			Analyzed: 02/13/11 05:03			
Fluorobenzene	1004644	11.765	1035568	11.765	97	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	386114	15.492	421911	15.493	92	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	440314	17.386	465529	17.386	95	50 - 200	0.0000	+/-0.50	
GW0029 (1102062-06)			Lab File ID: 0206206.D			Analyzed: 02/13/11 05:32			
Fluorobenzene	1046295	11.77	1035568	11.765	101	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	374283	15.498	421911	15.493	89	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	469040	17.391	465529	17.386	101	50 - 200	0.0050	+/-0.50	
GW0033 (1102063-01)			Lab File ID: 0206301.D			Analyzed: 02/13/11 06:02			
Fluorobenzene	1008042	11.766	1035568	11.765	97	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	381553	15.493	421911	15.493	90	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	437084	17.387	465529	17.386	94	50 - 200	0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04609
Instrument: MS-VOA4
Calibration: 1039001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B04609-CCV1)			Lab File ID: 0214CCVE.D			Analyzed: 02/14/11 20:45			
Fluorobenzene	1027413	11.779	1304022	11.784	79	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	406799	15.497	481913	15.512	84	50 - 200	-0.0150	+/-0.50	
1,4-Dichlorobenzene-d4	450307	17.381	491484	17.405	92	50 - 200	-0.0240	+/-0.50	
LCS (1B14003-BS1)			Lab File ID: 0214LS1E.D			Analyzed: 02/14/11 21:14			
Fluorobenzene	1098365	11.751	1027413	11.779	107	50 - 200	-0.0280	+/-0.50	
Chlorobenzene-d5	430632	15.489	406799	15.497	106	50 - 200	-0.0080	+/-0.50	
1,4-Dichlorobenzene-d4	480498	17.382	450307	17.381	107	50 - 200	0.0010	+/-0.50	
Blank (1B14003-BLK1)			Lab File ID: 0214BL1E.D			Analyzed: 02/14/11 23:12			
Fluorobenzene	1107157	11.779	1027413	11.779	108	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	417148	15.496	406799	15.497	103	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	523697	17.38	450307	17.381	116	50 - 200	-0.0010	+/-0.50	
GW8010-TB (1102076-08)			Lab File ID: 0207608.D			Analyzed: 02/14/11 23:41			
Fluorobenzene	1140444	11.755	1027413	11.779	111	50 - 200	-0.0240	+/-0.50	
Chlorobenzene-d5	391702	15.482	406799	15.497	96	50 - 200	-0.0150	+/-0.50	
1,4-Dichlorobenzene-d4	488061	17.386	450307	17.381	108	50 - 200	0.0050	+/-0.50	
GW8001-RB (1102076-06)			Lab File ID: 0207606.D			Analyzed: 02/15/11 01:10			
Fluorobenzene	1053486	11.756	1027413	11.779	103	50 - 200	-0.0230	+/-0.50	
Chlorobenzene-d5	399783	15.483	406799	15.497	98	50 - 200	-0.0140	+/-0.50	
1,4-Dichlorobenzene-d4	466461	17.387	450307	17.381	104	50 - 200	0.0060	+/-0.50	
GW8001-AB (1102076-05)			Lab File ID: 0207605.D			Analyzed: 02/15/11 02:39			
Fluorobenzene	1013527	11.751	1027413	11.779	99	50 - 200	-0.0280	+/-0.50	
Chlorobenzene-d5	405922	15.488	406799	15.497	100	50 - 200	-0.0090	+/-0.50	
1,4-Dichlorobenzene-d4	452772	17.382	450307	17.381	101	50 - 200	0.0010	+/-0.50	
GW0025 (1102076-01)			Lab File ID: 0207601.D			Analyzed: 02/15/11 04:37			
Fluorobenzene	953085	11.769	1027413	11.779	93	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5	372763	15.487	406799	15.497	92	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	462048	17.38	450307	17.381	103	50 - 200	-0.0010	+/-0.50	
GW0027 (1102076-03)			Lab File ID: 0207603.D			Analyzed: 02/15/11 05:07			
Fluorobenzene	925584	11.756	1027413	11.779	90	50 - 200	-0.0230	+/-0.50	
Chlorobenzene-d5	378479	15.484	406799	15.497	93	50 - 200	-0.0130	+/-0.50	
1,4-Dichlorobenzene-d4	469279	17.387	450307	17.381	104	50 - 200	0.0060	+/-0.50	
LCS Dup (1B14003-BSD1)			Lab File ID: 0214LD1E.D			Analyzed: 02/15/11 08:04			
Fluorobenzene	1069083	11.766	1027413	11.779	104	50 - 200	-0.0130	+/-0.50	
Chlorobenzene-d5	428619	15.483	406799	15.497	105	50 - 200	-0.0140	+/-0.50	
1,4-Dichlorobenzene-d4	484007	17.387	450307	17.381	107	50 - 200	0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04702
Instrument: MS-VOA3
Calibration: 1042001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B04702-CCV1)			Lab File ID: 0215CCV1.D			Analyzed: 02/15/11 06:36			
Fluorobenzene	1179789	12.359	1314641	12.359	90	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	624130	15.991	660505	15.997	94	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	703131	17.968	723449	17.974	97	50 - 200	-0.0060	+/-0.50	
LCS (1B15001-BS1)			Lab File ID: 0215LS1.D			Analyzed: 02/15/11 07:36			
Fluorobenzene	1267920	12.353	1179789	12.359	107	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	625047	15.991	624130	15.991	100	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	727670	17.968	703131	17.968	103	50 - 200	0.0000	+/-0.50	
Blank (1B15001-BLK1)			Lab File ID: 0215BL1.D			Analyzed: 02/15/11 09:32			
Fluorobenzene	1167045	12.353	1179789	12.359	99	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	582437	15.991	624130	15.991	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	656542	17.968	703131	17.968	93	50 - 200	0.0000	+/-0.50	
GW8012-TB (1102088-05)			Lab File ID: 0208805.D			Analyzed: 02/15/11 10:02			
Fluorobenzene	1218498	12.353	1179789	12.359	103	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	583103	15.991	624130	15.991	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	699131	17.968	703131	17.968	99	50 - 200	0.0000	+/-0.50	
GW0023 (1102088-01)			Lab File ID: 0208801.D			Analyzed: 02/15/11 12:31			
Fluorobenzene	1186112	12.359	1179789	12.359	101	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	579918	15.991	624130	15.991	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	677502	17.974	703131	17.968	96	50 - 200	0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04703
Instrument: MS-VOA3
Calibration: 1042001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B04703-CCV1)			Lab File ID: 0215CCVE.D			Analyzed: 02/15/11 18:28			
Fluorobenzene	1167779	12.366	1314641	12.359	89	50 - 200	0.0070	+/-0.50	
Chlorobenzene-d5	610054	15.997	660505	15.997	92	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	680716	17.975	723449	17.974	94	50 - 200	0.0010	+/-0.50	
LCS (1B15004-BS1)			Lab File ID: 0215LS1E.D			Analyzed: 02/15/11 18:58			
Fluorobenzene	1246465	12.365	1167779	12.366	107	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	631715	15.997	610054	15.997	104	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	709611	17.974	680716	17.975	104	50 - 200	-0.0010	+/-0.50	
Blank (1B15004-BLK1)			Lab File ID: 0215BLE.D			Analyzed: 02/15/11 20:25			
Fluorobenzene	1189538	12.365	1167779	12.366	102	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	578591	15.997	610054	15.997	95	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	661155	17.974	680716	17.975	97	50 - 200	-0.0010	+/-0.50	
GW0026 (1102088-03)			Lab File ID: 0208803.D			Analyzed: 02/15/11 20:54			
Fluorobenzene	1152548	12.365	1167779	12.366	99	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	561363	15.997	610054	15.997	92	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	649603	17.975	680716	17.975	95	50 - 200	0.0000	+/-0.50	
Matrix Spike (1B15004-MS1)			Lab File ID: 0208803M.D			Analyzed: 02/16/11 01:52			
Fluorobenzene	1138496	12.365	1167779	12.366	97	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	582626	15.997	610054	15.997	96	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	662556	17.974	680716	17.975	97	50 - 200	-0.0010	+/-0.50	
Matrix Spike Dup (1B15004-MSD1)			Lab File ID: 0208803S.D			Analyzed: 02/16/11 02:21			
Fluorobenzene	1144935	12.365	1167779	12.366	98	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	598456	15.997	610054	15.997	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	681563	17.974	680716	17.975	100	50 - 200	-0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04705
Instrument: MS-VOA4
Calibration: 1039001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B04705-CCV1)			Lab File ID: 0215CCV1.D			Analyzed: 02/15/11 09:18			
Fluorobenzene	1101047	11.75	1304022	11.784	84	50 - 200	-0.0340	+/-0.50	
Chlorobenzene-d5	429151	15.487	481913	15.512	89	50 - 200	-0.0250	+/-0.50	
1,4-Dichlorobenzene-d4	469992	17.38	491484	17.405	96	50 - 200	-0.0250	+/-0.50	
LCS (1B15006-BS1)			Lab File ID: 0215LS1.D			Analyzed: 02/15/11 10:05			
Fluorobenzene	1224807	11.78	1101047	11.75	111	50 - 200	0.0300	+/-0.50	
Chlorobenzene-d5	454394	15.498	429151	15.487	106	50 - 200	0.0110	+/-0.50	
1,4-Dichlorobenzene-d4	525324	17.391	469992	17.38	112	50 - 200	0.0110	+/-0.50	
Blank (1B15006-BLK1)			Lab File ID: 0215BL1.D			Analyzed: 02/15/11 11:33			
Fluorobenzene	1133604	11.77	1101047	11.75	103	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	411549	15.488	429151	15.487	96	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	495010	17.381	469992	17.38	105	50 - 200	0.0010	+/-0.50	
GW8011-TB (1102097-03)			Lab File ID: 0209703.D			Analyzed: 02/15/11 12:03			
Fluorobenzene	1074898	11.769	1101047	11.75	98	50 - 200	0.0190	+/-0.50	
Chlorobenzene-d5	401382	15.487	429151	15.487	94	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	501306	17.39	469992	17.38	107	50 - 200	0.0100	+/-0.50	
GW0024 (1102097-01)			Lab File ID: 0209701.D			Analyzed: 02/15/11 13:32			
Fluorobenzene	998701	11.81	1101047	11.75	91	50 - 200	0.0600	+/-0.50	
Chlorobenzene-d5	384910	15.498	429151	15.487	90	50 - 200	0.0110	+/-0.50	
1,4-Dichlorobenzene-d4	447181	17.391	469992	17.38	95	50 - 200	0.0110	+/-0.50	
GW0030 (1102097-02)			Lab File ID: 0209702.D			Analyzed: 02/15/11 14:01			
Fluorobenzene	986733	11.765	1101047	11.75	90	50 - 200	0.0150	+/-0.50	
Chlorobenzene-d5	377558	15.493	429151	15.487	88	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	446506	17.386	469992	17.38	95	50 - 200	0.0060	+/-0.50	
LCS Dup (1B15006-BSD1)			Lab File ID: 0215LD1.D			Analyzed: 02/15/11 19:30			
Fluorobenzene	1042559	11.77	1101047	11.75	95	50 - 200	0.0200	+/-0.50	
Chlorobenzene-d5	401786	15.498	429151	15.487	94	50 - 200	0.0110	+/-0.50	
1,4-Dichlorobenzene-d4	469073	17.391	469992	17.38	100	50 - 200	0.0110	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1039001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 2/7/2011 7:30:41AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein	2.501	4.152623E-02	5.002	4.142119E-02	10	4.206971E-02	25.01	3.394957E-02	50.02	3.830479E-02	250.1	4.238086E-02
Acrylonitrile	2.499	6.970656E-02	4.998	7.413922E-02	9.996	7.531913E-02	24.99	0.0618476	49.98	7.185677E-02	249.9	8.521366E-02
Benzene	0.5	0.778119	1	0.8152918	2	0.8600903	5	0.739877	10	0.7896258	50	0.8794969
Bromobenzene	0.5	0.71772	1	0.7359208	2	0.7348263	5	0.6538562	10	0.6646496	50	0.7759657
Bromochloromethane	0.5	0.1254828	1	0.1342683	2	0.1596019	5	0.1357289	10	0.1510112	50	0.1712886
Tert-Amyl Methyl Ether	0.5	~~1.197054~~	1	0.8840889	2	0.7587682	5	0.5786786	10	0.593726	50	0.6358589
Bromodichloromethane	0.5	0.2788406	1	0.303277	2	0.30093	5	0.2642617	10	0.2884465	50	0.3385899
Bromoform	0.5	0.4867608	1	0.5283487	2	0.5448951	5	0.4811944	10	0.5532868	50	0.6757829
Bromomethane	0.5	0.1235495	1	0.1446107	2	0.1062301	5	9.196699E-02	10	9.537798E-02	50	0.1427209
Bromofluorobenzene	30	0.9678776	30	0.9406434	30	0.9893832	30	0.9200337	30	0.9633404	30	0.9985577
n-Butylbenzene	0.5	1.144099	1	1.270553	2	1.309962	5	1.096785	10	1.155022	50	1.308219
2-Butanone												
sec-Butylbenzene	0.5	1.66381	1	1.742697	2	1.870273	5	1.528009	10	1.599074	50	1.793668
tert-Butylbenzene	0.5	1.190509	1	1.227198	2	1.24904	5	1.116889	10	1.140256	50	1.283874
Carbon disulfide	0.5	0.7458378	1	0.7754487	2	0.7578437	5	0.6626988	10	0.688709	50	0.7946224
Carbon tetrachloride	0.5	0.2510105	1	0.2693112	2	0.2881806	5	0.2470081	10	0.2684516	50	0.316859
Chlorobenzene	0.5	1.584466	1	1.662913	2	1.723347	5	1.458434	10	1.571073	50	1.765307
Chloroethane	0.5	0.1641032	1	0.1740887	2	0.1314322	5	0.1607545	10	0.1372189	50	0.180331
Chloroform	0.5	0.4646144	1	0.4541751	2	0.4375327	5	0.3777413	10	0.4034578	50	0.4514354
2-Chloroethyl vinyl ether	0.9975	0.1240394	1.995	0.1197033	3.99	0.1356807	9.975	0.1227722	19.95	0.1391346	99.75	0.1532498
Chloromethane	0.5	0.2249788	1	0.2112893	2	0.2116726	5	0.1659674	10	0.1680107	50	0.1998173
1-Chlorohexane	0.501	1.625229	1.002	1.531513	2.004	1.49712	5.01	1.268525	10.02	1.316753	50.1	1.431651
2-Chlorotoluene	0.5	1.441471	1	1.528357	2	1.629262	5	1.29342	10	1.299	50	1.448114
4-Chlorotoluene	0.5	1.345687	1	1.678218	2	1.621336	5	1.341733	10	1.419661	50	1.533932
Cyclohexane	0.5	0.2864837	1	0.2774894	2	0.2813893	5	0.2492746	10	0.2539741	50	0.2978029
Dibromochloromethane	0.5	0.6638101	1	0.7089993	2	0.7798496	5	0.6456908	10	0.7271221	50	0.8709974
1,2-Dibromo-3-chloropropane	0.5	0.1134695	1	0.1227088	2	0.1319349	5	0.1133792	10	0.1328017	50	0.1620074
1,2-Dibromoethane (EDB)	0.5	0.6254078	1	0.6446083	2	0.6704798	5	0.5640158	10	0.6132271	50	0.7439216
Dibromomethane	0.5	0.1530881	1	0.1798749	2	0.1711415	5	0.1511598	10	0.1612561	50	0.1824719
1,2-Dichlorobenzene	0.5	1.053835	1	1.130812	2	1.11045	5	0.987201	10	1.033857	50	1.152756

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1039001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 2/7/2011 7:30:41AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	0.5	1.195927	1	1.246	2	1.10604	5	0.9791318	10	1.085418	50	1.113399
1,4-Dichlorobenzene	0.5	1.277912	1	1.250535	2	1.262106	5	1.148084	10	1.239656	50	1.283196
Dichlorodifluoromethane	0.5	0.2296546	1	0.1946367	2	0.22037	5	0.2070284	10	0.2168869	50	0.2394676
1,1-Dichloroethane	0.5	0.3720422	1	0.4104365	2	0.4366653	5	0.3611866	10	0.3895418	50	0.4461858
1,2-Dichloroethane	0.5	0.2430076	1	0.2844375	2	0.2850646	5	0.2627554	10	0.2747684	50	0.317187
1,1-Dichloroethene	0.5	0.2092428	1	0.2184879	2	0.2310992	5	0.1880845	10	0.2071083	50	0.2342904
cis-1,2-Dichloroethene	0.5	0.2763228	1	0.2708831	2	0.2733538	5	0.2409453	10	0.2649898	50	0.2866975
trans-1,2-Dichloroethene	0.5	0.2316778	1	0.2791524	2	0.2704204	5	0.2204573	10	0.2485423	50	0.2760538
1,2-Dichloroethene (total)	1	0.2540003	2	0.2750177	4	0.2718871	10	0.2307013	20	0.2567661	100	0.2813756
1,2-Dichloropropane	0.5	0.1983176	1	0.2252309	2	0.2253123	5	0.1952239	10	0.2052834	50	0.2291204
1,3-Dichloropropane	0.5	0.8560706	1	0.8644782	2	0.9414785	5	0.8017535	10	0.8598185	50	0.9695278
2,2-Dichloropropane	0.5	0.3040181	1	0.3499315	2	0.3249793	5	0.2679353	10	0.3053818	50	0.3359196
1,1-Dichloropropene	0.5	0.2696238	1	0.30068	2	0.3059408	5	0.2686105	10	0.2891436	50	0.3246194
cis-1,3-Dichloropropene	0.5	0.3021297	1	0.3344407	2	0.3675535	5	0.3155738	10	0.3462115	50	0.3934391
trans-1,3-Dichloropropene	0.5	0.6832605	1	0.8126095	2	0.8553241	5	0.7160067	10	0.8198452	50	0.9270638
Diisopropyl Ether	0.5	0.7690821	1	0.8165675	2	0.8134299	5	0.6973428	10	0.7754005	50	0.8620326
Ethylbenzene	0.5	2.467344	1	2.442914	2	2.632981	5	2.148705	10	2.335549	50	2.690279
Ethyl tert-Butyl Ether	0.5	0.6098795	1	0.6444152	2	0.6402339	5	0.5413526	10	0.6333637	50	0.7095217
Ethyl Methacrylate	0.5	0.5164352	1	0.5903242	2	0.6492831	5	0.5458834	10	0.6880525	50	0.8116846
Hexachlorobutadiene	0.5	0.3757782	1	0.292643	2	0.2983346	5	0.2398423	10	0.2664858	50	0.2680735
2-Hexanone												
Iodomethane	0.5	0.1849646	1	0.2276001	2	0.2543609	5	0.2351847	10	0.2835001	50	0.3931091
Isopropylbenzene	0.5	1.90889	1	1.850683	2	2.170431	5	1.706227	10	1.889779	50	2.088411
p-Isopropyltoluene	0.5	1.339758	1	1.42987	2	1.446442	5	1.224103	10	1.330571	50	1.429318
Methylene chloride	0.5	0.574586	1	0.5152497	2	0.3864437	5	0.2943444	10	0.2815944	50	0.2856696
Methyl Acetate	0.5	0.22916	1	0.1794877	2	0.1847584	5	0.1337363	10	0.1617343	50	0.1771065
Methylcyclohexane	0.5	0.2218316	1	0.2147291	2	0.2293414	5	0.1988927	10	0.2174864	50	0.2274178
Naphthalene	0.5	1.246835	1	1.207401	2	1.362552	5	1.157201	10	1.396832	50	1.463568
Methyl Methacrylate	0.5		1	0.1651132	2	0.1638023	5	0.1403232	10	0.1560194	50	0.1870903
4-Methyl-2-pentanone												
Methyl t-Butyl Ether	0.5	0.5993139	1	0.5546372	2	0.5869191	5	0.5091922	10	0.5598626	50	0.6318372

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1039001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 2/7/2011 7:30:41AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	2.037646	1	2.228666	2	2.175046	5	1.906634	10	1.943753	50	2.286057
Styrene	0.5	1.430733	1	1.618735	2	1.722403	5	1.493592	10	1.578984	50	1.842444
1,1,2,2-Tetrachloroethane	0.5	0.53852	1	0.5865579	2	0.5940993	5	0.5168621	10	0.5496999	50	0.616987
1,1,1,2-Tetrachloroethane	0.5	0.5822676	1	0.6514098	2	0.6478179	5	0.5695504	10	0.6146874	50	0.6990274
tert-Butyl alcohol	2.5	1.593375E-02	5	1.581423E-02	10	1.726481E-02	25	1.421081E-02	50	0.0175234	250	1.991447E-02
Tetrachloroethene	0.5	0.7475967	1	0.7460574	2	0.7885106	5	0.66974	10	0.7120601	50	0.8298451
Toluene	0.5	1.397692	1	1.398294	2	1.478364	5	1.219774	10	1.286434	50	1.408395
1,2,3-Trichlorobenzene	0.5	0.5632584	1	0.5362357	2	0.6055696	5	0.4761856	10	0.5897942	50	0.6169605
1,2,4-Trichlorobenzene	0.5	0.6165175	1	0.6386497	2	0.6741205	5	0.5600916	10	0.6050536	50	0.7096591
1,1,2-Trichloroethane	0.5	0.4761628	1	0.471522	2	0.5447323	5	0.4107468	10	0.4735039	50	0.5381214
1,1,1-Trichloroethane	0.5	0.2858543	1	0.3240756	2	0.321772	5	0.2787577	10	0.2990007	50	0.3493643
Tetrahydrofuran	0.5		1	5.879651E-02	2	5.522091E-02	5	4.552784E-02	10	4.834803E-02	50	5.682407E-02
Trichloroethene	0.5	0.224664	1	0.2414734	2	0.2423306	5	0.2129307	10	0.2315309	50	0.261202
Trichlorofluoromethane	0.5	0.3692547	1	0.3774503	2	0.3847087	5	0.3440936	10	0.3631134	50	0.4023697
1,2,3-Trichloropropane	0.5	0.1998662	1	0.1966052	2	0.1920076	5	0.1511211	10	0.1825058	50	0.2201321
1,3,5-Trimethylbenzene	0.5	1.389643	1	1.480302	2	1.520051	5	1.347774	10	1.438658	50	1.704915
1,2,4-Trimethylbenzene	0.5	1.584893	1	1.574864	2	1.596096	5	1.382136	10	1.365803	50	1.588125
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.228081	1	0.2386259	2	0.2525347	5	0.2081145	10	0.2281382	50	0.2375149
Vinyl chloride	0.5	0.1742641	1	0.1810823	2	0.1774876	5	0.163649	10	0.1692312	50	0.1797419
m,p-Xylene	1	1.976032	2	1.958043	4	2.085612	10	1.713494	20	1.833643	100	1.959378
o-Xylene	0.5	1.941183	1	1.934651	2	2.127224	5	1.754075	10	1.863623	50	2.090857
Vinyl acetate	0.9995		1.999	0.190586	3.998	0.2213996	9.995	0.1911902	19.99	0.2160289	99.95	0.2773694
Xylenes (total)	1.5	1.964416	3	1.950246	6	2.099482	15	1.727021	30	1.843637	150	2.003204
Dibromofluoromethane	30	0.325012	30	0.3269315	30	0.3174149	30	0.3281362	30	0.3226715	30	0.3320444
1,2-Dichloroethane-d4	30	0.0643974	30	6.627307E-02	30	6.218726E-02	30	6.198734E-02	30	6.554103E-02	30	6.700661E-02
Toluene-d8	30	2.409996	30	2.444371	30	2.409777	30	2.372545	30	2.356909	30	2.53709
tert-Amyl alcohol	2.5		5	6.633686E-03	10	9.621999E-03	25	7.634247E-03	50	1.026869E-02	250	0.0122729
tert-Amyl ethyl ether	0.5	0.4568364	1	0.5088483	2	0.5250438	5	0.4487953	10	0.5018835	50	0.5481365

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1039001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 2/7/2011 7:30:41AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone							1		2	0.0658061	4	0.0728068
Acrolein	500.2	0.0413036	750.3	3.961258E-02	1000	3.876816E-02						
Acrylonitrile	499.8	7.750116E-02	749.7	7.882312E-02	999.6	7.652937E-02						
Benzene	100	0.8516983	150	0.8512852	200	0.7996691						
Bromobenzene	100	0.7068939	150	0.7216877	200	0.7061684						
Bromochloromethane	100	0.1629999	150	0.1618392	200	0.1534695						
Tert-Amyl Methyl Ether	100	0.6158965	150	0.6145088	200	0.6015948						
Bromodichloromethane	100	0.3247043	150	0.3235724	200	0.3025021						
Bromoform	100	0.6286419	150	0.6269501	200	0.603962						
Bromomethane	100	0.1459236	150	0.1601583	200	0.1586283						
Bromofluorobenzene	30	0.9423679	30	0.9528659	30	0.9414127						
n-Butylbenzene	100	1.243676	150	1.244428	200	1.186713						
2-Butanone							1		2	5.169885E-02	4	7.682525E-02
sec-Butylbenzene	100	1.656595	150	1.627556	200	1.578022						
tert-Butylbenzene	100	1.143838	150	1.184551	200	1.146998						
Carbon disulfide	100	0.7748302	150	0.780681	200	0.741686						
Carbon tetrachloride	100	0.3010489	150	0.2985462	200	0.2828049						
Chlorobenzene	100	1.495854	150	1.487447	200	1.376811						
Chloroethane	100	0.1513388	150	0.1503029	200	0.1623873						
Chloroform	100	0.4356729	150	0.431589	200	0.4190687						
2-Chloroethyl vinyl ether	199.5	0.1415964	299.2	0.1349193	399	0.1273779						
Chloromethane	100	0.1864843	150	0.1982091	200	0.1853412						
1-Chlorohexane	100.2	1.278179	150.3	1.182441	200.4	1.065207						
2-Chlorotoluene	100	1.370853	150	1.484266	200	1.327689						
4-Chlorotoluene	100	1.343808	150	1.450363	200	1.382832						
Cyclohexane	100	0.2787845	150	0.2720681	200	0.2544587						
Dibromochloromethane	100	0.771313	150	0.7654528	200	0.7293965						
1,2-Dibromo-3-chloropropane	100	0.1606349	150	0.1616619	200	0.1666479						
1,2-Dibromoethane (EDB)	100	0.6572733	150	0.6815473	200	0.6279306						
Dibromomethane	100	0.1798381	150	0.1701141	200	0.1696594						
1,2-Dichlorobenzene	100	1.077273	150	1.068258	200	1.028853						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1039001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 2/7/2011 7:30:41AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	100	1.184229	150	1.039947	200	1.036882						
1,4-Dichlorobenzene	100	1.153287	150	1.033937	200	1.021182						
Dichlorodifluoromethane	100	0.2359321	150	0.2327664	200	0.2273232						
1,1-Dichloroethane	100	0.419726	150	0.4316699	200	0.4057132						
1,2-Dichloroethane	100	0.2962461	150	0.3075407	200	0.2886516						
1,1-Dichloroethene	100	0.2176809	150	0.2253321	200	0.2161193						
cis-1,2-Dichloroethene	100	0.2802155	150	0.2774377	200	0.269272						
trans-1,2-Dichloroethene	100	0.2639769	150	0.2606461	200	0.2544276						
1,2-Dichloroethene (total)	200	0.2720962	300	0.2690419	400	0.2618498						
1,2-Dichloropropane	100	0.2263896	150	0.2179578	200	0.2102209						
1,3-Dichloropropane	100	0.8818327	150	0.8728979	200	0.8073187						
2,2-Dichloropropane	100	0.3206966	150	0.3143398	200	0.2999092						
1,1-Dichloropropene	100	0.3116172	150	0.3094276	200	0.2984444						
cis-1,3-Dichloropropene	100	0.36589	150	0.3629244	200	0.3410242						
trans-1,3-Dichloropropene	100	0.8515892	150	0.8560765	200	0.8046995						
Diisopropyl Ether	100	0.8141731	150	0.8245506	200	0.7742325						
Ethylbenzene	100	2.201212	150	2.334571	200	2.004726						
Ethyl tert-Butyl Ether	100	0.6717369	150	0.6827483	200	0.6637785						
Ethyl Methacrylate	100	0.7020391	150	0.6872813	200	0.6736913						
Hexachlorobutadiene	100	0.2874083	150	0.2865507	200	0.2812825						
2-Hexanone							1	0.2624953	2	0.2492618	4	0.3040456
Iodomethane	100	0.3835393	150	0.3965903	200	0.3693401						
Isopropylbenzene	100	1.845225	150	1.826654	200	1.600579						
p-Isopropyltoluene	100	1.304453	150	1.245342	200	1.127652						
Methylene chloride	100	0.272905	150	0.2745239	200	0.2606038						
Methyl Acetate	100	0.1730421	150	0.1722917	200	0.1679216						
Methylcyclohexane	100	0.2098838	150	0.207984	200	0.1877819						
Naphthalene	100	1.463803	150	1.449245	200	1.441422						
Methyl Methacrylate	100	0.1790377	150	0.184229	200	0.1721687						
4-Methyl-2-pentanone							1	0.1681225	2	0.1699763	4	0.1676157
Methyl t-Butyl Ether	100	0.5930313	150	0.6196673	200	0.6079042						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1039001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 2/7/2011 7:30:41AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	100	2.140836	150	2.056655	200	1.925151						
Styrene	100	1.639645	150	1.539873	200	1.373035						
1,1,2,2-Tetrachloroethane	100	0.56719	150	0.5444665	200	0.5409201						
1,1,1,2-Tetrachloroethane	100	0.6372228	150	0.6143552	200	0.5666373						
tert-Butyl alcohol	500	1.816844E-02	750	1.844337E-02	1000	1.867496E-02						
Tetrachloroethene	100	0.735467	150	0.749357	200	0.6611077						
Toluene	100	1.367465	150	1.297076	200	1.221637						
1,2,3-Trichlorobenzene	100	0.6568684	150	0.6397795	200	0.6121554						
1,2,4-Trichlorobenzene	100	0.6993379	150	0.7073377	200	0.6828811						
1,1,2-Trichloroethane	100	0.4817367	150	0.4829779	200	0.4580208						
1,1,1-Trichloroethane	100	0.341168	150	0.3395912	200	0.3251119						
Tetrahydrofuran	100	5.522674E-02	150	5.557544E-02	200	5.642194E-02						
Trichloroethene	100	0.2473377	150	0.2342488	200	0.233355						
Trichlorofluoromethane	100	0.384724	150	0.3750431	200	0.3535054						
1,2,3-Trichloropropane	100	0.1871261	150	0.1838681	200	0.1782138						
1,3,5-Trimethylbenzene	100	1.453817	150	1.448231	200	1.359315						
1,2,4-Trimethylbenzene	100	1.532752	150	1.470361	200	1.45087						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2412547	150	0.235551	200	0.2194815						
Vinyl chloride	100	0.1657433	150	0.1534188	200	0.135877						
m,p-Xylene	200	1.710295	300	1.580975	400	1.39134						
o-Xylene	100	1.847735	150	1.723513	200	1.530825						
Vinyl acetate	199.9	0.2604059	299.8	0.263417	399.8	0.2689706						
Xylenes (total)	300	1.756108	450	1.628487	600	1.437835						
Dibromofluoromethane	30	0.3219746	30	0.3238055	30	0.326197						
1,2-Dichloroethane-d4	30	6.806108E-02	30	0.0679893	30	6.799579E-02						
Toluene-d8	30	2.465892	30	2.525914	30	2.413122						
tert-Amyl alcohol	500	1.193594E-02	750	1.203575E-02	1000	1.286371E-02						
tert-Amyl ethyl ether	100	0.4984309	150	0.5103	200	0.4893273						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1039001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 2/7/2011 7:30:41AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	10	0.0577326	20	5.612703E-02	100	6.552179E-02	200	6.017055E-02	300	6.784844E-02	400	6.183006E-02
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone	10	0.0825538	20	7.702954E-02	100	9.930995E-02	200	9.491099E-02	300	0.1061759	400	9.941335E-02
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1039001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 2/7/2011 7:30:41AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone	10	0.3007911	20	0.2908796	100	0.3678375	200	0.3394667	300	0.3718027	400	0.3290677
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone	10	0.1666001	20	0.1590799	100	0.1881945	200	0.1826218	300	0.1883294	400	0.170369
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1039001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 2/7/2011 7:30:41AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1039001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	2/7/2011 7:30:41AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	6.348042E-02	8.759215	4.83825	0.6050106			15	
Acrolein	0.0399263	6.691411	4.695889	0.5531169			15	
Acrylonitrile	7.454851E-02	8.711723	5.439889	0.5153655			15	
Benzene	0.8183504	5.572691	11.37744	0.1289322			15	
Bromobenzene	0.7130765	5.196317	16.62456	1.955286E-02			15	
Bromochloromethane	0.1506323	10.27461	8.500111	0.2479724			15	
Tert-Amyl Methyl Ether	0.6603901	16.08493	11.77413	8.136586E-02	0.9997032		0.995	
Bromodichloromethane	0.3027916	7.799062	12.50144	7.484039E-02			15	
Bromoform	0.5699803	11.84824	15.93444	0.0262941			SPCC (0.1)	
Bromomethane	0.1299074	20.38406	3.964	0.7064521	0.9983959		0.995	
Bromofluorobenzene	0.957387	2.621998	16.47022	2.732607E-02			15	
n-Butylbenzene	1.217717	6.214575	17.71833	1.370785E-02			15	
2-Butanone	0.0859897	20.60077	7.865625	0.5470501	0.9974979		0.995	
sec-Butylbenzene	1.6733	6.555521	17.30422	5.481704E-03			15	
tert-Butylbenzene	1.187017	4.74989	17.15178	2.582753E-02			15	
Carbon disulfide	0.7469286	5.919231	5.862778	0.440633			15	
Carbon tetrachloride	0.2803579	8.360972	11.31178	0.1285976			15	
Chlorobenzene	1.569517	8.202246	15.53778	2.079923E-02			SPCC (0.3)	
Chloroethane	0.1568842	10.20786	4.106444	0.5837799			15	
Chloroform	0.4305875	6.299133	8.627111	0.3043567			CCC (20)	
2-Chloroethyl vinyl ether	0.1331637	8.077245	13.148	5.826453E-02			15	
Chloromethane	0.1946412	10.2938	3.400889	0.9415026			SPCC (0.1)	
1-Chlorohexane	1.35518	13.27346	15.50156	2.818818E-02			15	
2-Chlorotoluene	1.424715	7.937675	16.83056	1.239489E-02			15	
4-Chlorotoluene	1.457508	8.654439	16.88667	1.961681E-02			15	
Cyclohexane	0.2724139	6.070048	11.16256	9.157351E-02			15	
Dibromochloromethane	0.7402924	9.101033	14.52556	2.965746E-02			15	
1,2-Dibromo-3-chloropropane	0.1405829	15.73538	18.02822	2.127093E-02	0.9995964		0.995	
1,2-Dibromoethane (EDB)	0.6476013	7.740743	14.76	3.456003E-02			15	
Dibromomethane	0.1687338	6.803459	12.30767	7.306886E-02			15	
1,2-Dichlorobenzene	1.071477	4.931397	17.68856	5.171756E-03			15	
1,3-Dichlorobenzene	1.109664	7.765275	17.37756	2.411992E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1039001	Instrument:	MS-VOA4
Matrix:	Water	Calibration Date:	2/7/2011 7:30:41AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.185544	8.618759	17.42233	1.642186E-02			15	
Dichlorodifluoromethane	0.222674	6.545885	3.215556	0.8959896	0.9995739		0.995	
1,1-Dichloroethane	0.4081297	7.150762	7.000111	0.3331365			SPCC (0.1)	
1,2-Dichloroethane	0.2844065	7.905266	10.354	0.1944757			15	
1,1-Dichloroethene	0.2163828	6.456213	5.364222	0.4507894			CCC (20)	
cis-1,2-Dichloroethene	0.2711242	4.789396	8.171444	0.3160574			15	
trans-1,2-Dichloroethene	0.2561505	7.739406	6.552	0.4156797			15	
1,2-Dichloroethene (total)	0.2636373	5.754159	0	0			15	
1,2-Dichloropropane	0.2147841	6.014639	12.37556	6.213964E-02			CCC (20)	
1,3-Dichloropropane	0.8727974	6.276488	14.29856	3.394906E-02			15	
2,2-Dichloropropane	0.313679	7.502355	8.822333	0.2473015			15	
1,1-Dichloropropene	0.2975675	6.332644	11.03133	0.1343592			15	
cis-1,3-Dichloropropene	0.3476874	8.122396	13.38378	4.350229E-02			15	
trans-1,3-Dichloropropene	0.8140528	9.161065	13.89211	5.186918E-02			15	
Diisopropyl Ether	0.7940902	5.899205	7.926	0.2693061			15	
Ethylbenzene	2.362031	9.458271	15.69978	3.074885E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.6441145	7.522742	8.861667	0.2891787			15	
Ethyl Methacrylate	0.6516305	13.77595	14.37756	3.478868E-02			15	
Hexachlorobutadiene	0.2884888	12.88731	19.38244	1.708899E-02			15	
2-Hexanone	0.3128498	13.7275	14.48856	9.348562E-02			15	
Iodomethane	0.3031321	27.28541	5.409222	0.5303687	0.9980688		0.995	
Isopropylbenzene	1.87632	9.265289	16.43856	2.487316E-02			15	
p-Isopropyltoluene	1.319723	8.148758	17.42456	3.065426E-03			15	
Methylene chloride	0.3495467	33.6408	5.562556	0.4271772	0.9989096		0.995	
Methyl Acetate	0.175471	14.23463	5.605444	0.4972246			15	
Methylcyclohexane	0.2128165	6.316372	13.12722	3.972675E-02			15	
Naphthalene	1.354318	8.829272	19.35422	1.667645E-02			15	
Methyl Methacrylate	0.168473	9.252076	12.81587	4.721109E-02			15	
4-Methyl-2-pentanone	0.1734344	5.979284	13.54967	9.661555E-02			15	
Methyl t-Butyl Ether	0.5847072	6.482375	6.761333	0.4204904			15	
n-Propylbenzene	2.077827	6.638009	16.75511	2.126317E-02			15	
Styrene	1.58216	9.16915	16.11311	2.672767E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1039001
Instrument: MS-VOA4
Matrix: Water
Calibration Date: 2/7/2011 7:30:41AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.5617003	5.691063	16.17989	9.733366E-03			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.6203306	7.021629	15.47844	2.186932E-02			15	
tert-Butyl alcohol	1.732758E-02	10.08898	5.375222	0.4514074			15	
Tetrachloroethene	0.7377491	7.192229	14.94178	2.707858E-02			15	
Toluene	1.341681	6.690052	14.22067	4.147638E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.5885341	9.48889	19.56233	8.612995E-04			15	
1,2,4-Trichlorobenzene	0.6548499	8.023626	19.12722	1.896605E-02			15	
1,1,2-Trichloroethane	0.4819472	8.349452	14.03789	4.770722E-02			15	
1,1,1-Trichloroethane	0.3182995	7.871372	10.60056	0.193781			15	
Tetrahydrofuran	5.399268E-02	8.459851	9.46525	0.3380589			15	
Trichloroethene	0.2365637	5.829828	12.45456	8.455537E-02			15	
Trichlorofluoromethane	0.3726959	4.731481	4.709	0.5566022			15	
1,2,3-Trichloropropane	0.1879384	9.896004	16.285	1.047502E-02			15	
1,3,5-Trimethylbenzene	1.460301	7.356123	16.95344	0.0313921			15	
1,2,4-Trimethylbenzene	1.5051	6.027629	17.22744	0.0244513			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.232144	5.599071	5.630444	0.4391774			15	
Vinyl chloride	0.1667217	8.727087	3.568333	0.8590323			CCC (20)	
m,p-Xylene	1.800979	12.33127	15.85878	2.719885E-02			15	
o-Xylene	1.868187	9.917691	16.169	2.421734E-02			15	
Vinyl acetate	0.236171	15.03677	7.247875	0.2722697	0.9995625		0.995	
Xylenes (total)	1.823382	11.39571	0	0			15	
Dibromofluoromethane	0.3249097	1.278704	8.904444	0.2859415			15	
1,2-Dichloroethane-d4	6.571543E-02	3.64755	10.14467	0.2284643			15	
Toluene-d8	2.437291	2.571323	14.14733	0.023144			15	
tert-Amyl alcohol	1.040837E-02	22.10921	9.9325	0.3054316	0.9981958		0.995	
tert-Amyl ethyl ether	0.4986224	6.228662	13.043	0.0452972			15	

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein	2.501	4.174688E-02	5.002	3.856662E-02	10	3.437694E-02	25.01	0.0182728	50.02	2.123273E-02	250.1	2.231178E-02
Acrylonitrile	2.499	8.812904E-02	4.998	9.406873E-02	9.996	0.0929386	24.99	8.482993E-02	49.98	8.920213E-02	249.9	0.0947401
Benzene	0.5	0.9450861	1	0.9445345	2	0.9601675	5	0.7906232	10	0.8303345	50	0.9313922
Bromobenzene	0.5	0.6901022	1	0.7277522	2	0.7131113	5	0.6167644	10	0.6117274	50	0.6670966
Bromochloromethane	0.5	0.1127303	1	0.1182802	2	0.1343138	5	0.1049976	10	0.1151616	50	0.1285619
Tert-Amyl Methyl Ether	0.5	1.302566	1	0.9818719	2	0.8637552	5	0.6393085	10	0.6435684	50	0.6867683
Bromodichloromethane	0.5	0.2417891	1	0.263474	2	0.2505831	5	0.2107564	10	0.2319654	50	0.2775319
Bromoform	0.5	0.1289722	1	0.158804	2	0.168964	5	0.1489188	10	0.1619209	50	0.2570554
Bromomethane	0.5	0.1030408	1	0.1144611	2	0.1266765	5	0.1117067	10	0.1211445	50	0.1530205
Bromofluorobenzene	30	0.9654507	30	0.9976207	30	0.9729897	30	0.9746357	30	0.9380772	30	0.9440315
n-Butylbenzene	0.5	1.646562	1	1.487912	2	1.505232	5	1.25586	10	1.305682	50	1.410369
2-Butanone												
sec-Butylbenzene	0.5	1.995622	1	1.908844	2	1.974981	5	1.658612	10	1.753382	50	1.861187
tert-Butylbenzene	0.5	1.783234	1	1.683892	2	1.6604	5	1.393317	10	1.432726	50	1.554201
Carbon disulfide	0.5	0.6470439	1	0.6175059	2	0.6224395	5	0.5547088	10	0.6000347	50	0.6855299
Carbon tetrachloride	0.5	0.1950462	1	0.1928653	2	0.1925396	5	0.1680897	10	0.1865131	50	0.2307491
Chlorobenzene	0.5	1.572188	1	1.610476	2	1.613768	5	1.428043	10	1.392237	50	1.500533
Chloroethane	0.5	0.1176199	1	0.122616	2	0.1416319	5	0.1087992	10	0.1205354	50	0.1326353
Chloroform	0.5	0.4176807	1	0.4252921	2	0.4327724	5	0.363699	10	0.3708593	50	0.4130013
2-Chloroethyl vinyl ether	0.9975	0.1493271	1.995	0.1724823	3.99	0.1803491	9.975	0.1691201	19.95	0.1790793	99.75	0.1905536
Chloromethane	0.5	0.2682559	1	0.2554314	2	0.2448722	5	0.2256467	10	0.2384448	50	0.2548898
1-Chlorohexane	0.501	~~1.647162~~	1.002	1.445846	2.004	1.317613	5.01	1.115964	10.02	1.160985	50.1	1.236553
2-Chlorotoluene	0.5	1.686326	1	1.696742	2	1.73084	5	1.435526	10	1.515527	50	1.629684
4-Chlorotoluene	0.5	1.796726	1	1.764991	2	1.852982	5	1.526457	10	1.517603	50	1.651782
Cyclohexane	0.5	0.3487326	1	0.3500331	2	0.3624181	5	0.3024825	10	0.3323924	50	0.3642405
Dibromochloromethane	0.5	0.287537	1	0.3016567	2	0.2977243	5	0.2621412	10	0.2878156	50	0.3996691
1,2-Dibromo-3-chloropropane	0.5	6.563709E-02	1	8.732219E-02	2	9.957113E-02	5	7.942185E-02	10	0.0891781	50	0.116438
1,2-Dibromoethane (EDB)	0.5	0.4739428	1	0.4789681	2	0.5254348	5	0.4569947	10	0.4599806	50	0.5142327
Dibromomethane	0.5	0.1568265	1	0.156741	2	0.1561314	5	0.1410607	10	0.1496321	50	0.1626659
1,2-Dichlorobenzene	0.5	1.106465	1	1.190871	2	1.205924	5	1.018199	10	1.054561	50	1.112184

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	0.5	1.320917	1	1.283567	2	1.228413	5	1.058958	10	1.055012	50	1.114619
1,4-Dichlorobenzene	0.5	1.295837	1	1.28187	2	1.253957	5	1.11242	10	1.109189	50	1.182666
Dichlorodifluoromethane	0.5	0.1389278	1	0.1524051	2	0.1463283	5	0.1766836	10	0.1839105	50	0.1993881
1,1-Dichloroethane	0.5	0.4157966	1	0.4144189	2	0.4390419	5	0.3635615	10	0.3985996	50	0.4423158
1,2-Dichloroethane	0.5	0.3159408	1	0.3301288	2	0.3480555	5	0.3015883	10	0.3109418	50	0.353778
1,1-Dichloroethene	0.5	0.1789868	1	0.1828008	2	0.1900318	5	0.1562674	10	0.1692743	50	0.181869
cis-1,2-Dichloroethene	0.5	0.2312025	1	0.2491635	2	0.2613665	5	0.2114764	10	0.2262777	50	0.2437411
trans-1,2-Dichloroethene	0.5	0.2189111	1	0.2242045	2	0.2265313	5	0.1890057	10	0.2015217	50	0.2203565
1,2-Dichloroethene (total)	1	0.2250568	2	0.236684	4	0.2439489	10	0.2002411	20	0.2138997	100	0.2320488
1,2-Dichloropropane	0.5	0.2446153	1	0.2612948	2	0.2731986	5	0.2334747	10	0.2494524	50	0.2687378
1,3-Dichloropropane	0.5	0.7346529	1	0.8406911	2	0.7854829	5	0.7218122	10	0.7288621	50	0.793316
2,2-Dichloropropane	0.5	0.2742221	1	0.2996208	2	0.3337042	5	0.2680795	10	0.2913534	50	0.3242719
1,1-Dichloropropene	0.5	0.306027	1	0.3177728	2	0.3203218	5	0.2644934	10	0.2915432	50	0.3289568
cis-1,3-Dichloropropene	0.5	0.3790572	1	0.3451132	2	0.3648233	5	0.3270214	10	0.3452412	50	0.3960097
trans-1,3-Dichloropropene	0.5	0.5783928	1	0.6151467	2	0.631991	5	0.578027	10	0.5860145	50	0.7159333
Diisopropyl Ether	0.5	0.7792429	1	0.8091132	2	0.8432713	5	0.7376383	10	0.8046673	50	0.9065105
Ethylbenzene	0.5	2.732016	1	2.688971	2	2.678361	5	2.352547	10	2.351156	50	2.522577
Ethyl tert-Butyl Ether	0.5	0.6343489	1	0.6202018	2	0.7138933	5	0.6155446	10	0.6746352	50	0.7594678
Ethyl Methacrylate	0.5	0.4118997	1	0.4906122	2	0.5220805	5	0.5174347	10	0.549863	50	0.6524213
Hexachlorobutadiene	0.5	0.4299349	1	0.3394291	2	0.3167539	5	0.2557823	10	0.2622533	50	0.2950244
2-Hexanone												
Iodomethane	0.5	0.2030311	1	0.2374142	2	0.2544815	5	0.2271554	10	0.2691064	50	0.3379317
Isopropylbenzene	0.5	2.263236	1	2.256201	2	2.150328	5	1.859399	10	1.900794	50	2.037782
p-Isopropyltoluene	0.5	1.464414	1	1.464556	2	1.450106	5	1.218854	10	1.266581	50	1.392999
Methylene chloride	0.5	0.2711268	1	0.2560604	2	0.2608307	5	0.216929	10	0.2245747	50	0.2474163
Methyl Acetate	0.5	0.1554359	1	0.1554829	2	0.1804453	5	0.1730057	10	0.1657769	50	0.1786944
Methylcyclohexane	0.5	0.3002402	1	0.2875793	2	0.2932379	5	0.239262	10	0.2542406	50	0.2856919
Naphthalene	0.5	1.759582	1	1.656859	2	1.741664	5	1.546642	10	1.593499	50	1.691168
Methyl Methacrylate	0.5	~~0.1305392~~	1	0.1789817	2	0.2066857	5	0.1890241	10	0.2081253	50	0.2350489
4-Methyl-2-pentanone												
Methyl t-Butyl Ether	0.5	0.5773333	1	0.5521541	2	0.6045546	5	0.5151834	10	0.5567914	50	0.6095863

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	2.639294	1	2.498158	2	2.578066	5	2.140346	10	2.26532	50	2.368618
Styrene	0.5	1.646769	1	1.683039	2	1.689876	5	1.487873	10	1.533405	50	1.697697
1,1,2,2-Tetrachloroethane	0.5	0.5398591	1	0.5247009	2	0.5635804	5	0.51062	10	0.5171534	50	0.5283282
1,1,1,2-Tetrachloroethane	0.5	0.3488426	1	0.3412749	2	0.3801394	5	0.322724	10	0.3422563	50	0.4448147
tert-Butyl alcohol	2.5	1.327822E-02	5	1.674569E-02	10	1.886982E-02	25	1.588996E-02	50	1.784126E-02	250	1.967488E-02
Tetrachloroethene	0.5	0.6406202	1	0.6545282	2	0.6377782	5	0.5346161	10	0.5477381	50	0.6023662
Toluene	0.5	1.414269	1	1.377359	2	1.396002	5	1.181169	10	1.206687	50	1.344946
1,2,3-Trichlorobenzene	0.5	0.8203446	1	0.678333	2	0.7123323	5	0.6086772	10	0.6157404	50	0.6759281
1,2,4-Trichlorobenzene	0.5	0.9057442	1	0.8130136	2	0.7674788	5	0.6668867	10	0.6800235	50	0.7520681
1,1,2-Trichloroethane	0.5	0.396873	1	0.3997791	2	0.4098788	5	0.3680968	10	0.3551403	50	0.3981433
1,1,1-Trichloroethane	0.5	0.281893	1	0.3139537	2	0.3242203	5	0.2726791	10	0.2948391	50	0.3425316
Tetrahydrofuran	0.5		1	6.847448E-02	2	8.919676E-02	5	5.020587E-02	10	6.195551E-02	50	6.901773E-02
Trichloroethene	0.5	0.2699605	1	0.2436371	2	0.2654701	5	0.218424	10	0.2377842	50	0.2530296
Trichlorofluoromethane	0.5	0.3386394	1	0.3350936	2	0.3020265	5	0.2659838	10	0.323219	50	0.3484605
1,2,3-Trichloropropane	0.5	0.1858527	1	0.1820921	2	0.1840108	5	0.1658145	10	0.1733853	50	0.1844241
1,3,5-Trimethylbenzene	0.5	1.790377	1	1.782205	2	1.846771	5	1.513009	10	1.576872	50	1.702232
1,2,4-Trimethylbenzene	0.5	1.812917	1	1.847747	2	1.858682	5	1.619601	10	1.648693	50	1.759763
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.1936108	1	0.1925058	2	0.1886412	5	0.1547449	10	0.1638115	50	0.1823678
Vinyl chloride	0.5	0.1927584	1	0.2128595	2	0.2191676	5	0.2064686	10	0.2130142	50	0.2258966
m,p-Xylene	1	2.121772	2	2.212015	4	2.166852	10	1.819283	20	1.836202	100	1.877009
o-Xylene	0.5	2.314493	1	2.293783	2	2.357228	5	1.977641	10	1.988426	50	2.028044
Vinyl acetate	0.9995	0.1751716	1.999	0.1999408	3.998	0.2268043	9.995	0.2095772	19.99	0.2278334	99.95	0.2776192
Xylenes (total)	1.5	2.186013	3	2.239271	6	2.23031	15	1.872069	30	1.886943	150	1.927354
Dibromofluoromethane	30	0.2525456	30	0.2445447	30	0.2526273	30	0.2533062	30	0.256516	30	0.2537646
1,2-Dichloroethane-d4	30	5.166318E-02	30	0.0532115	30	5.406673E-02	30	0.0546442	30	5.428525E-02	30	5.442078E-02
Toluene-d8	30	2.148376	30	2.223719	30	2.192669	30	2.225586	30	2.172303	30	2.222292
tert-Amyl alcohol	2.5		5		10	6.248903E-03	25	8.228846E-03	50	1.007245E-02	250	0.0118877
tert-Amyl ethyl ether	0.5	0.572668	1	0.6344448	2	0.6783855	5	0.5715893	10	0.6319354	50	0.6843155

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone							1		2	6.406994E-02	4	7.071503E-02
Acrolein	500.2	2.434642E-02	750.3	2.469596E-02	1000	2.489138E-02						
Acrylonitrile	499.8	9.009096E-02	749.7	8.852763E-02	999.6	8.715111E-02						
Benzene	100	0.8591368	150	0.874036	200	0.8544628						
Bromobenzene	100	0.6315675	150	0.644393	200	0.6232382						
Bromochloromethane	100	0.1265465	150	0.1271653	200	0.1314299						
Tert-Amyl Methyl Ether	100	0.6533226	150	0.6568199	200	0.6519255						
Bromodichloromethane	100	0.2810268	150	0.2984811	200	0.3002115						
Bromoform	100	0.3080016	150	0.3289292	200	0.3383705						
Bromomethane	100	0.1542462	150	0.160917	200	0.1676897						
Bromofluorobenzene	30	0.9221641	30	0.8931842	30	0.8807035						
n-Butylbenzene	100	1.28482	150	1.268822	200	1.198306						
2-Butanone							1		2	~~6.112032E-02~~	4	8.168678E-02
sec-Butylbenzene	100	1.710573	150	1.652867	200	1.549203						
tert-Butylbenzene	100	1.389272	150	1.379273	200	1.30316						
Carbon disulfide	100	0.6556263	150	0.6806134	200	0.6874371						
Carbon tetrachloride	100	0.2441366	150	0.2714559	200	0.2793467						
Chlorobenzene	100	1.355558	150	1.27044	200	1.18457						
Chloroethane	100	0.1274796	150	0.1302818	200	0.1322151						
Chloroform	100	0.3954016	150	0.4013895	200	0.404641						
2-Chloroethyl vinyl ether	199.5	0.1817779	299.2	0.1780828	399	0.1745018						
Chloromethane	100	0.2402618	150	0.2464277	200	0.2469677						
1-Chlorohexane	100.2	1.086129	150.3	1.023107	200.4	0.9520627						
2-Chlorotoluene	100	1.470217	150	1.47051	200	1.37839						
4-Chlorotoluene	100	1.573298	150	1.474768	200	1.377673						
Cyclohexane	100	0.3294888	150	0.3470529	200	0.3406395						
Dibromochloromethane	100	0.4385027	150	0.4611073	200	0.4689702						
1,2-Dibromo-3-chloropropane	100	0.1290742	150	0.1378229	200	0.13973						
1,2-Dibromoethane (EDB)	100	0.4830722	150	0.4673939	200	0.4486473						
Dibromomethane	100	0.1560727	150	0.1600483	200	0.1591782						
1,2-Dichlorobenzene	100	1.036517	150	1.028762	200	0.994313						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	100	1.042642	150	1.024408	200	0.9856162						
1,4-Dichlorobenzene	100	1.066003	150	1.059164	200	1.02387						
Dichlorodifluoromethane	100	0.1835344	150	0.1921129	200	0.1898329						
1,1-Dichloroethane	100	0.4169053	150	0.4278885	200	0.4229295						
1,2-Dichloroethane	100	0.3353864	150	0.3389994	200	0.3384457						
1,1-Dichloroethene	100	0.1734232	150	0.1778938	200	0.1793694						
cis-1,2-Dichloroethene	100	0.2368708	150	0.2383321	200	0.2420432						
trans-1,2-Dichloroethene	100	0.2088602	150	0.2167202	200	0.2176827						
1,2-Dichloroethene (total)	200	0.2228655	300	0.2275261	400	0.2298629						
1,2-Dichloropropane	100	0.2549546	150	0.2626206	200	0.2581664						
1,3-Dichloropropane	100	0.7303698	150	0.7112875	200	0.6821312						
2,2-Dichloropropane	100	0.3110273	150	0.3203295	200	0.320099						
1,1-Dichloropropene	100	0.3085004	150	0.3153698	200	0.3168351						
cis-1,3-Dichloropropene	100	0.3765932	150	0.394969	200	0.3897065						
trans-1,3-Dichloropropene	100	0.6864452	150	0.6702737	200	0.6471334						
Diisopropyl Ether	100	0.8647914	150	0.8746462	200	0.8756846						
Ethylbenzene	100	2.184514	150	1.966455	200	1.734642						
Ethyl tert-Butyl Ether	100	0.7388558	150	0.7552995	200	0.7588755						
Ethyl Methacrylate	100	0.6300261	150	0.6021328	200	0.5776199						
Hexachlorobutadiene	100	0.2870466	150	0.3059458	200	0.2945441						
2-Hexanone							1	0.2314365	2	0.2168539	4	0.2976913
Iodomethane	100	0.3288645	150	0.3402867	200	0.3331268						
Isopropylbenzene	100	1.787431	150	1.632921	200	1.498208						
p-Isopropyltoluene	100	1.284872	150	1.298624	200	1.236749						
Methylene chloride	100	0.2311665	150	0.2386509	200	0.2405573						
Methyl Acetate	100	0.1731505	150	0.1688837	200	0.1706533						
Methylcyclohexane	100	0.2599595	150	0.2751915	200	0.2711709						
Naphthalene	100	1.630735	150	1.601884	200	1.518371						
Methyl Methacrylate	100	0.2349797	150	0.2364306	200	0.2332994						
4-Methyl-2-pentanone							1	0.1663313	2	0.1780584	4	0.2206147
Methyl t-Butyl Ether	100	0.5918165	150	0.5979816	200	0.6001929						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	100	2.103864	150	2.000709	200	1.794426						
Styrene	100	1.530731	150	1.431279	200	1.33186						
1,1,2,2-Tetrachloroethane	100	0.5114625	150	0.5095915	200	0.5059235						
1,1,1,2-Tetrachloroethane	100	0.4486254	150	0.4547539	200	0.4469388						
tert-Butyl alcohol	500	2.033629E-02	750	1.974109E-02	1000	2.023323E-02						
Tetrachloroethene	100	0.5530041	150	0.5350682	200	0.5171413						
Toluene	100	1.214221	150	1.160405	200	1.106291						
1,2,3-Trichlorobenzene	100	0.6340291	150	0.6469382	200	0.6313732						
1,2,4-Trichlorobenzene	100	0.6994536	150	0.7084606	200	0.6941565						
1,1,2-Trichloroethane	100	0.3693556	150	0.3562313	200	0.3431521						
1,1,1-Trichloroethane	100	0.3316693	150	0.3510886	200	0.3502134						
Tetrahydrofuran	100	6.833676E-02	150	6.538021E-02	200	6.745593E-02						
Trichloroethene	100	0.2392579	150	0.246636	200	0.2418878						
Trichlorofluoromethane	100	0.3227814	150	0.3307451	200	0.3373636						
1,2,3-Trichloropropane	100	0.1776636	150	0.1654827	200	0.1650215						
1,3,5-Trimethylbenzene	100	1.55152	150	1.50816	200	1.411114						
1,2,4-Trimethylbenzene	100	1.608313	150	1.572028	200	1.463352						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.1660749	150	0.1749342	200	0.1723987						
Vinyl chloride	100	0.2086229	150	0.2154134	200	0.2106935						
m,p-Xylene	200	1.580116	300	~~1.383295~~	400	~~1.201173~~						
o-Xylene	100	1.800962	150	1.638327	200	~~1.493609~~						
Vinyl acetate	199.9	0.2697766	299.8	0.279667	399.8	0.2764555						
Xylenes (total)	300	1.653732	450	1.468305	600	~~1.298651~~						
Dibromofluoromethane	30	0.2528044	30	0.251013	30	0.2556936						
1,2-Dichloroethane-d4	30	5.378122E-02	30	5.382132E-02	30	5.542951E-02						
Toluene-d8	30	2.152698	30	2.055283	30	2.043852						
tert-Amyl alcohol	500	1.353586E-02	750	1.340962E-02	1000	1.365648E-02						
tert-Amyl ethyl ether	100	0.6468393	150	0.6516456	200	0.6379997						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone			20	6.383628E-02	100	7.013675E-02	200	0.0665478	300	6.919478E-02	400	6.688945E-02
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone			20	9.830393E-02	100	0.1132809	200	0.1065002	300	0.1107993	400	0.1072699
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone			20	0.3324512	100	0.3830236	200	0.3569186	300	0.3640624	400	0.3449918
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone			20	0.231484	100	0.2580018	200	0.2405014	300	0.2460843	400	0.2297922
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone												
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone												
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone												
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	6.734143E-02	4.131886	5.272857	0.1204455			15	
Acrolein	2.782683E-02	29.73532	5.112667	7.753974E-02	0.9993957		0.995	
Acrylonitrile	8.996425E-02	3.703462	5.939	7.312255E-02			15	
Benzene	0.8877526	6.724026	11.99533	2.484545E-02			15	
Bromobenzene	0.658417	6.565181	17.135	2.232344E-02			15	
Bromochloromethane	0.1221319	8.014157	9.435667	4.957178E-02			15	
Tert-Amyl Methyl Ether	0.7866563	28.95886	12.35033	2.602954E-02	0.999865		0.995	
Bromodichloromethane	0.2617577	11.6682	13.01144	1.351069E-02			15	
Bromoform	0.2222152	38.32122	16.42833	2.210761E-02	0.9968521		SPCC (0.1)	
Bromomethane	0.134767	17.95102	4.303	7.115313E-02	0.9986444		0.995	
Bromofluorobenzene	0.9432064	4.141834	16.96967	9.33719E-03			15	
n-Butylbenzene	1.373729	10.74547	18.31367	9.119014E-03			15	
2-Butanone	0.1029735	11.26933	8.704167	0.2876742			15	
sec-Butylbenzene	1.78503	8.794839	17.86833	8.658072E-03			15	
tert-Butylbenzene	1.508831	11.07756	17.99367	4.489641E-03			15	
Carbon disulfide	0.6389933	6.986358	6.467667	9.799745E-02			15	
Carbon tetrachloride	0.2178602	18.32864	11.952	0.0271791	0.9966548		0.995	
Chlorobenzene	1.436424	10.55311	16.022	1.374265E-02			SPCC (0.3)	
Chloroethane	0.1259794	7.710992	4.464333	8.993927E-02			15	
Chloroform	0.4027485	5.782466	9.585667	3.428825E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.1750304	6.523102	13.61756	4.415385E-02			15	
Chloromethane	0.2467998	4.887919	3.656	8.056094E-02			SPCC (0.1)	
1-Chlorohexane	1.167282	13.78944	15.985	1.315906E-02			15	
2-Chlorotoluene	1.557085	8.347254	17.35333	6.828885E-03			15	
4-Chlorotoluene	1.615142	9.996862	17.41433	1.315012E-02			15	
Cyclohexane	0.3419423	5.528723	11.84133	5.030834E-02			15	
Dibromochloromethane	0.3561249	23.7061	15.00533	1.372953E-02	0.9986537		0.995	
1,2-Dibromo-3-chloropropane	0.1049106	25.64299	18.65733	2.335638E-02	0.9982178		0.995	
1,2-Dibromoethane (EDB)	0.4787408	5.397178	15.23767	1.253351E-02			15	
Dibromomethane	0.155373	4.148513	12.83	2.483071E-02			15	
1,2-Dichlorobenzene	1.083088	7.010621	18.285	8.946731E-03			15	
1,3-Dichlorobenzene	1.123795	10.89399	17.944	1.601189E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.153886	8.916754	17.993	1.058319E-02			15	
Dichlorodifluoromethane	0.1736804	12.6814	3.449667	0.0911626			15	
1,1-Dichloroethane	0.4157175	5.684783	7.742	5.272704E-02			SPCC (0.1)	
1,2-Dichloroethane	0.3303627	5.286019	11.13189	3.819698E-02			15	
1,1-Dichloroethene	0.1766574	5.439883	5.899556	6.016249E-02			CCC (20)	
cis-1,2-Dichloroethene	0.2378304	5.961484	9.068667	7.826884E-02			15	
trans-1,2-Dichloroethene	0.2137549	5.616217	7.240333	7.187083E-02			15	
1,2-Dichloroethene (total)	0.2257926	5.66826	0	0			15	
1,2-Dichloropropane	0.2562795	4.808453	12.895	2.236072E-02			CCC (20)	
1,3-Dichloropropane	0.7476228	6.565771	14.762	1.645115E-02			15	
2,2-Dichloropropane	0.3047453	7.536233	9.817	6.765373E-02			15	
1,1-Dichloropropene	0.3077578	6.277739	11.69733	3.520369E-02			15	
cis-1,3-Dichloropropene	0.3687261	6.715723	13.85867	2.725416E-02			15	
trans-1,3-Dichloropropene	0.6343731	7.849772	14.353	2.839321E-02			15	
Diisopropyl Ether	0.8328406	6.498419	8.845667	4.787607E-02			15	
Ethylbenzene	2.356804	14.6307	16.18733	2.521386E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.6967914	8.80672	9.904556	4.608595E-02			15	
Ethyl Methacrylate	0.5504545	13.59658	14.83656	5.480763E-02			15	
Hexachlorobutadiene	0.3096349	16.75068	20.199	1.725689E-02	0.9992167		0.995	
2-Hexanone	0.3159287	19.62314	14.95788	0.1536743	0.9985677		0.995	
Iodomethane	0.2812665	19.26399	5.943	0.102056	0.9996984		0.995	
Isopropylbenzene	1.931811	13.91947	16.94	1.393468E-02			15	
p-Isopropyltoluene	1.341973	7.51519	17.70033	1.045186E-02			15	
Methylene chloride	0.2430347	7.249268	6.115889	6.876087E-02			15	
Methyl Acetate	0.1690587	5.282551	6.153333	0.1019137			15	
Methylcyclohexane	0.2740638	7.278646	13.64433	2.119816E-02			15	
Naphthalene	1.637823	5.048973	20.15867	1.530895E-02			15	
Methyl Methacrylate	0.2153219	10.65267	13.299	6.891426E-02			15	
4-Methyl-2-pentanone	0.2213585	14.68593	14.01325	5.837834E-02			15	
Methyl t-Butyl Ether	0.5783993	5.415197	7.494	8.264436E-02			15	
n-Propylbenzene	2.265422	12.4461	17.27367	1.504421E-02			15	
Styrene	1.55917	8.296739	16.606	2.160731E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.5234688	3.543321	16.66756	6.055184E-03			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.3922633	14.19435	15.965	1.611869E-02			15	
tert-Butyl alcohol	1.806783E-02	13.17667	5.901556	8.978124E-02			15	
Tetrachloroethene	0.5803178	9.212702	15.42567	1.615863E-02			15	
Toluene	1.266817	9.153244	14.69622	1.173103E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.6692996	9.814259	20.39467	2.147976E-02			15	
1,2,4-Trichlorobenzene	0.7430317	10.34887	19.89633	1.991692E-02			15	
1,1,2-Trichloroethane	0.3774056	6.376428	14.50167	8.979918E-03			15	
1,1,1-Trichloroethane	0.3181209	9.211913	11.33911	4.512402E-02			15	
Tetrahydrofuran	6.750291E-02	15.92611	10.47212	0.1226981	0.9994273		0.995	
Trichloroethene	0.2462319	6.256117	12.97667	2.763548E-02			15	
Trichlorofluoromethane	0.3227014	7.743543	5.156222	6.336786E-02			15	
1,2,3-Trichloropropane	0.1759719	4.977682	16.77467	1.222676E-02			15	
1,3,5-Trimethylbenzene	1.631362	9.359366	17.476	2.218609E-02			15	
1,2,4-Trimethylbenzene	1.6879	8.163573	17.77867	7.414698E-03			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1765655	7.73711	6.211	8.515101E-02			15	
Vinyl chloride	0.211655	4.326316	3.853889	5.652913E-02			CCC (20)	
m,p-Xylene	1.94475	11.82239	16.344	2.217847E-02			15	
o-Xylene	2.049863	12.57041	16.66062	1.171739E-02			15	
Vinyl acetate	0.238094	16.4196	8.031333	0.1635173	0.9997745		0.995	
Xylenes (total)	1.933	14.44837	0	0			15	
Dibromofluoromethane	0.2525351	1.358663	9.895667	6.587298E-02			15	
1,2-Dichloroethane-d4	5.392485E-02	1.948573	10.978	4.105036E-02			15	
Toluene-d8	2.159642	3.19565	14.62256	6.619058E-03			15	
tert-Amyl alcohol	1.100569E-02	26.54099	10.834	5.509799E-02	0.9993611		0.995	
tert-Amyl ethyl ether	0.6344248	6.268733	13.53989	1.578894E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0207ICV1.D	Calibration Date:	02/07/11 07:30
Sequence:	1B03901	Injection Date:	02/07/11
Lab Sample ID:	1B03901-ICV1	Injection Time:	11:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzene	A	100.0	104.8	0.8183504	0.8575312		4.8	20
Bromobenzene	A	100.0	103.5	0.7130765	0.7382378		3.5	20
Bromochloromethane	A	100.0	105.8	0.1506323	0.1593131		5.8	20
Bromodichloromethane	A	100.0	108.0	0.3027916	0.3269522		8.0	20
Bromoform	A	100.0	105.9	0.5699803	0.6036491	0.1	5.9	20
Bromomethane	L	100.0	102.4	0.1299074	0.1595994		2.4	20
n-Butylbenzene	A	100.0	103.5	1.217717	1.259747		3.5	20
sec-Butylbenzene	A	100.0	97.49	1.6733	1.631307		-2.5	20
tert-Butylbenzene	A	100.0	104.5	1.187017	1.240223		4.5	20
Carbon disulfide	A	100.0	108.4	0.7469286	0.8094463		8.4	20
Carbon tetrachloride	A	100.0	103.0	0.2803579	0.2886493		3.0	20
Chlorobenzene	A	100.0	99.64	1.569517	1.563876	0.3	-0.4	20
Chloroethane	A	100.0	107.7	0.1568842	0.1689537		7.7	20
Chloroform	A	100.0	101.7	0.4305875	0.4378576		1.7	20
Chloromethane	A	100.0	111.5	0.1946412	0.2170477	0.1	11.5	20
2-Chlorotoluene	A	100.0	102.4	1.424715	1.458813		2.4	20
4-Chlorotoluene	A	100.0	108.5	1.457508	1.581263		8.5	20
Dibromochloromethane	A	100.0	101.6	0.7402924	0.7522972		1.6	20
1,2-Dibromo-3-chloropropane	L	100.0	94.73	0.1405829	0.1548509		-5.3	20
1,2-Dibromoethane (EDB)	A	100.0	100.7	0.6476013	0.6519374		0.7	20
Dibromomethane	A	100.0	106.4	0.1687338	0.1795799		6.4	20
1,2-Dichlorobenzene	A	100.0	105.9	1.071477	1.134417		5.9	20
1,3-Dichlorobenzene	A	100.0	106.1	1.109664	1.177845		6.1	20
1,4-Dichlorobenzene	A	100.0	97.22	1.185544	1.152535		-2.8	20
Dichlorodifluoromethane	L	100.0	118.4	0.222674	0.2729908		18.4	20
1,1-Dichloroethane	A	100.0	102.7	0.4081297	0.4192552	0.1	2.7	20
1,2-Dichloroethane	A	100.0	104.6	0.2844065	0.2975996		4.6	20
1,1-Dichloroethene	A	100.0	112.6	0.2163828	0.2437113		12.6	20
cis-1,2-Dichloroethene	A	100.0	105.4	0.2711242	0.2857824		5.4	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0207ICV1.D	Calibration Date:	02/07/11 07:30
Sequence:	1B03901	Injection Date:	02/07/11
Lab Sample ID:	1B03901-ICV1	Injection Time:	11:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
trans-1,2-Dichloroethene	A	100.0	106.7	0.2561505	0.273286		6.7	20
1,2-Dichloropropane	A	100.0	105.8	0.2147841	0.2272202		5.8	20
1,3-Dichloropropane	A	100.0	97.22	0.8727974	0.8485668		-2.8	20
2,2-Dichloropropane	A	100.0	97.09	0.313679	0.3045407		-2.9	20
1,1-Dichloropropene	A	100.0	104.4	0.2975675	0.3107613		4.4	20
cis-1,3-Dichloropropene	A	100.0	104.6	0.3476874	0.3636567		4.6	20
trans-1,3-Dichloropropene	A	100.0	112.9	0.8140528	0.9193387		12.9	20
Ethylbenzene	A	100.0	98.72	2.362031	2.33182		-1.3	20
Hexachlorobutadiene	A	100.0	100.7	0.2884888	0.2904635		0.7	20
Isopropylbenzene	A	100.0	100.9	1.87632	1.892421		0.9	20
p-Isopropyltoluene	A	100.0	100.8	1.319723	1.3304		0.8	20
Methylene chloride	L	100.0	106.9	0.3495467	0.2870065		6.9	20
Naphthalene	A	100.0	102.2	1.354318	1.383704		2.2	20
Methyl t-Butyl Ether	A	200.0	203.1	0.5847072	0.5937574		1.5	20
n-Propylbenzene	A	100.0	102.9	2.077827	2.138863		2.9	20
Styrene	A	100.0	97.73	1.58216	1.546204		-2.3	20
1,1,2,2-Tetrachloroethane	A	100.0	100.2	0.5617003	0.5630699	0.3	0.2	20
1,1,1,2-Tetrachloroethane	A	100.0	101.8	0.6203306	0.6312648		1.8	20
Tetrachloroethene	A	100.0	101.2	0.7377491	0.7469719		1.3	20
Toluene	A	100.0	97.48	1.341681	1.30786		-2.5	20
1,2,3-Trichlorobenzene	A	100.0	100.8	0.5885341	0.593447		0.8	20
1,2,4-Trichlorobenzene	A	100.0	98.62	0.6548499	0.6458299		-1.4	20
1,1,2-Trichloroethane	A	100.0	96.16	0.4819472	0.4634186		-3.8	20
1,1,1-Trichloroethane	A	100.0	103.0	0.3182995	0.3278918		3.0	20
Trichloroethene	A	100.0	105.1	0.2365637	0.2487209		5.1	20
Trichlorofluoromethane	A	100.0	101.9	0.3726959	0.3798505		1.9	20
1,2,3-Trichloropropane	A	100.0	97.95	0.1879384	0.1840816		-2.1	20
1,3,5-Trimethylbenzene	A	100.0	104.9	1.460301	1.532568		4.9	20
1,2,4-Trimethylbenzene	A	100.0	104.0	1.5051	1.565866		4.0	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0207ICV1.D	Calibration Date:	02/07/11 07:30
Sequence:	1B03901	Injection Date:	02/07/11
Lab Sample ID:	1B03901-ICV1	Injection Time:	11:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Vinyl chloride	A	100.0	101.8	0.1667217	0.1696555		1.8	20
m,p-Xylene	A	200.0	184.2	1.800979	1.65836		-7.9	20
o-Xylene	A	100.0	94.06	1.868187	1.757169		-5.9	20
Bromofluorobenzene	A	30.00	29.15	0.957387	0.9303721		-2.8	20
Dibromofluoromethane	A	30.00	29.73	0.3249097	0.3219898		-0.9	20
1,2-Dichloroethane-d4	A	30.00	31.33	6.571543E-02	6.863695E-02		4.4	20
Toluene-d8	A	30.00	28.56	2.437291	2.320547		-4.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0207ICV4.D	Calibration Date:	02/07/11 07:30
Sequence:	1B03901	Injection Date:	02/07/11
Lab Sample ID:	1B03901-ICV4	Injection Time:	17:53

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	100.0	107.3	6.348042E-02	6.809928E-02		7.3	20
2-Butanone	L	100.0	103.0	0.0859897	0.102141		3.0	20
2-Hexanone	A	100.0	119.4	0.3128498	0.3736664		19.4	20
4-Methyl-2-pentanone	A	100.0	116.0	0.1734344	0.2012692		16.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0209ICV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04204	Injection Date:	02/09/11
Lab Sample ID:	1B04204-ICV1	Injection Time:	12:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)	
Benzene	A	100.0	98.61	0.8877526	0.8754519		-1.4	20	
Bromobenzene	A	100.0	96.82	0.658417	0.6374675		-3.2	20	
Bromochloromethane	A	100.0	104.4	0.1221319	0.127462		4.4	20	
Bromodichloromethane	A	100.0	116.9	0.2617577	0.3060053		16.9	20	
Bromoform	L	100.0	101.8	0.2222152	0.3310082	0.1	1.8	20	
Bromomethane	L	100.0	98.53	0.134767	0.1599718		-1.5	20	
n-Butylbenzene	A	100.0	92.95	1.373729	1.276939		-7.0	20	
sec-Butylbenzene	A	100.0	95.92	1.78503	1.712249		-4.1	20	
tert-Butylbenzene	A	100.0	96.14	1.508831	1.450665		-3.9	20	
Carbon disulfide	A	100.0	113.3	0.6389933	0.7241915		13.3	20	
Carbon tetrachloride	L	100.0	99.47	0.2178602	0.2669694		-0.5	20	
Chlorobenzene	A	100.0	95.93	1.436424	1.377992	0.3	-4.1	20	
Chloroethane	A	100.0	106.0	0.1259794	0.133548		6.0	20	
Chloroform	A	100.0	98.09	0.4027485	0.3950397		-1.9	20	
Chloromethane	A	100.0	112.9	0.2467998	0.2786856	0.1	12.9	20	
2-Chlorotoluene	A	100.0	97.46	1.557085	1.517555		-2.5	20	
4-Chlorotoluene	A	100.0	95.12	1.615142	1.536353		-4.9	20	
Dibromochloromethane	L	100.0	105.6	0.3561249	0.4826405		5.6	20	
1,2-Dibromo-3-chloropropane	L	100.0	96.44	0.1049106	0.130851		-3.6	20	
1,2-Dibromoethane (EDB)	A	100.0	100.8	0.4787408	0.4825239		0.8	20	
Dibromomethane	A	100.0	102.0	0.155373	0.1584544		2.0	20	
1,2-Dichlorobenzene	A	100.0	95.69	1.083088	1.03646		-4.3	20	
1,3-Dichlorobenzene	A	100.0	93.55	1.123795	1.051362		-6.4	20	
1,4-Dichlorobenzene	A	100.0	92.63	1.153886	1.06889		-7.4	20	
Dichlorodifluoromethane	A	100.0	143.0	0.1736804	0.2482943		43.0	20	*
1,1-Dichloroethane	A	100.0	101.1	0.4157175	0.4204233	0.1	1.1	20	
1,2-Dichloroethane	A	100.0	101.2	0.3303627	0.3342831		1.2	20	
1,1-Dichloroethene	A	100.0	109.3	0.1766574	0.1931641		9.3	20	
cis-1,2-Dichloroethene	A	100.0	98.74	0.2378304	0.2348456		-1.3	20	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0209ICV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04204	Injection Date:	02/09/11
Lab Sample ID:	1B04204-ICV1	Injection Time:	12:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
trans-1,2-Dichloroethene	A	100.0	102.4	0.2137549	0.2188265		2.4	20
1,2-Dichloropropane	A	100.0	101.0	0.2562795	0.2588877		1.0	20
1,3-Dichloropropane	A	100.0	97.49	0.7476228	0.7288219		-2.5	20
2,2-Dichloropropane	A	100.0	98.92	0.3047453	0.3014667		-1.1	20
1,1-Dichloropropene	A	100.0	101.9	0.3077578	0.3136846		1.9	20
cis-1,3-Dichloropropene	A	100.0	102.0	0.3687261	0.3759799		2.0	20
trans-1,3-Dichloropropene	A	100.0	117.9	0.6343731	0.7477025		17.9	20
Ethylbenzene	A	100.0	93.26	2.356804	2.197843		-6.7	20
Hexachlorobutadiene	L	100.0	104.9	0.3096349	0.3113485		4.9	20
Isopropylbenzene	A	100.0	97.29	1.931811	1.879531		-2.7	20
p-Isopropyltoluene	A	100.0	97.93	1.341973	1.314139		-2.1	20
Methylene chloride	A	100.0	97.27	0.2430347	0.2363881		-2.7	20
Naphthalene	A	100.0	97.52	1.637823	1.597163		-2.5	20
Methyl t-Butyl Ether	A	200.0	198.3	0.5783993	0.5734028		-0.9	20
n-Propylbenzene	A	100.0	94.99	2.265422	2.152023		-5.0	20
Styrene	A	100.0	101.1	1.55917	1.576227		1.1	20
1,1,2,2-Tetrachloroethane	A	100.0	98.64	0.5234688	0.5163364	0.3	-1.4	20
1,1,1,2-Tetrachloroethane	A	100.0	119.4	0.3922633	0.4685512		19.4	20
Tetrachloroethene	A	100.0	97.25	0.5803178	0.5643474		-2.8	20
Toluene	A	100.0	96.30	1.266817	1.219986		-3.7	20
1,2,3-Trichlorobenzene	A	100.0	94.36	0.6692996	0.6315523		-5.6	20
1,2,4-Trichlorobenzene	A	100.0	92.86	0.7430317	0.6899524		-7.1	20
1,1,2-Trichloroethane	A	100.0	96.87	0.3774056	0.3655906		-3.1	20
1,1,1-Trichloroethane	A	100.0	106.3	0.3181209	0.3380254		6.3	20
Trichloroethene	A	100.0	100.0	0.2462319	0.246225		-0.003	20
Trichlorofluoromethane	A	100.0	103.8	0.3227014	0.3349294		3.8	20
1,2,3-Trichloropropane	A	100.0	98.52	0.1759719	0.173367		-1.5	20
1,3,5-Trimethylbenzene	A	100.0	96.25	1.631362	1.570187		-3.7	20
1,2,4-Trimethylbenzene	A	100.0	97.23	1.6879	1.641188		-2.8	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0209ICV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04204	Injection Date:	02/09/11
Lab Sample ID:	1B04204-ICV1	Injection Time:	12:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Vinyl chloride	A	100.0	109.1	0.211655	0.2309513		9.1	20
m,p-Xylene	A	200.0	162.6	1.94475	1.580598		-18.7	20
o-Xylene	A	100.0	88.44	2.049863	1.812892		-11.6	20
Bromofluorobenzene	A	30.00	29.31	0.9432064	0.9214516		-2.3	20
Dibromofluoromethane	A	30.00	29.50	0.2525351	0.248311		-1.7	20
1,2-Dichloroethane-d4	A	30.00	31.00	5.392485E-02	5.571539E-02		3.3	20
Toluene-d8	A	30.00	29.76	2.159642	2.142179		-0.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0209ICV3.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04204	Injection Date:	02/09/11
Lab Sample ID:	1B04204-ICV3	Injection Time:	18:03

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	200.0	212.6	6.734143E-02	7.158481E-02		6.3	20
2-Butanone	A	200.0	223.5	0.1029735	0.1150657		11.7	20
2-Hexanone	L	200.0	214.8	0.3159287	0.3806354		7.4	20
4-Methyl-2-pentanone	A	200.0	234.7	0.2213585	0.2597223		17.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0212CCVE.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04509	Injection Date:	02/12/11
Lab Sample ID:	1B04509-CCV1	Injection Time:	23:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	200.0	233.3	6.348042E-02	7.403937E-02		16.6	20	
Benzene	A	100.0	112.9	0.8183504	0.9238756		12.9	20	
Bromobenzene	A	100.0	110.7	0.7130765	0.7893974		10.7	20	
Bromochloromethane	A	100.0	120.2	0.1506323	0.1810224		20.2	20	*
Bromodichloromethane	A	100.0	123.5	0.3027916	0.374062		23.5	20	*
Bromoform	A	100.0	116.8	0.5699803	0.6655055	0.1	16.8	20	
Bromomethane	L	100.0	94.33	0.1299074	0.146703		-5.7	20	
n-Butylbenzene	A	100.0	106.6	1.217717	1.298709		6.7	20	
2-Butanone	L	200.0	185.5	0.0859897	9.309645E-02		-7.2	20	
sec-Butylbenzene	A	100.0	101.5	1.6733	1.698066		1.5	20	
tert-Butylbenzene	A	100.0	106.7	1.187017	1.266589		6.7	20	
Carbon disulfide	A	100.0	114.0	0.7469286	0.8515081		14.0	20	
Carbon tetrachloride	A	100.0	121.5	0.2803579	0.3405262		21.5	20	*
Chlorobenzene	A	100.0	102.6	1.569517	1.609755	0.3	2.6	20	
Chloroethane	A	100.0	93.19	0.1568842	0.1462053		-6.8	20	
Chloroform	A	100.0	115.7	0.4305875	0.4983946		15.7	20	
Chloromethane	A	100.0	112.3	0.1946412	0.2186276	0.1	12.3	20	
2-Chlorotoluene	A	100.0	106.6	1.424715	1.518442		6.6	20	
4-Chlorotoluene	A	100.0	113.1	1.457508	1.648328		13.1	20	
Dibromochloromethane	A	100.0	106.7	0.7402924	0.7899401		6.7	20	
1,2-Dibromo-3-chloropropane	L	100.0	105.7	0.1405829	0.1730135		5.7	20	
1,2-Dibromoethane (EDB)	A	100.0	105.0	0.6476013	0.680028		5.0	20	
Dibromomethane	A	100.0	124.4	0.1687338	0.209839		24.4	20	*
1,2-Dichlorobenzene	A	100.0	109.3	1.071477	1.171046		9.3	20	
1,3-Dichlorobenzene	A	100.0	105.5	1.109664	1.170572		5.5	20	
1,4-Dichlorobenzene	A	100.0	112.1	1.185544	1.329281		12.1	20	
Dichlorodifluoromethane	L	100.0	126.8	0.222674	0.2924911		26.8	20	*
1,1-Dichloroethane	A	100.0	114.8	0.4081297	0.4686915	0.1	14.8	20	
1,2-Dichloroethane	A	100.0	127.1	0.2844065	0.361488		27.1	20	*

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0212CCVE.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04509	Injection Date:	02/12/11
Lab Sample ID:	1B04509-CCV1	Injection Time:	23:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	100.0	111.6	0.2163828	0.2415663		11.6	20	
cis-1,2-Dichloroethene	A	100.0	112.4	0.2711242	0.3048756		12.4	20	
trans-1,2-Dichloroethene	A	100.0	110.5	0.2561505	0.2830664		10.5	20	
1,2-Dichloropropane	A	100.0	111.5	0.2147841	0.2395665		11.5	20	
1,3-Dichloropropane	A	100.0	104.8	0.8727974	0.9143469		4.8	20	
2,2-Dichloropropane	A	100.0	94.56	0.313679	0.2966146		-5.4	20	
1,1-Dichloropropene	A	100.0	114.7	0.2975675	0.3414167		14.7	20	
cis-1,3-Dichloropropene	A	100.0	115.1	0.3476874	0.4003142		15.1	20	
trans-1,3-Dichloropropene	A	100.0	105.0	0.8140528	0.8547061		5.0	20	
Ethylbenzene	A	100.0	101.4	2.362031	2.395089		1.4	20	
Hexachlorobutadiene	A	100.0	103.2	0.2884888	0.2977484		3.2	20	
2-Hexanone	A	200.0	217.6	0.3128498	0.3404328		8.8	20	
Isopropylbenzene	A	100.0	103.8	1.87632	1.948617		3.9	20	
p-Isopropyltoluene	A	100.0	106.0	1.319723	1.398645		6.0	20	
Methylene chloride	L	100.0	111.9	0.3495467	0.3001078		11.9	20	
Naphthalene	A	100.0	117.4	1.354318	1.59016		17.4	20	
4-Methyl-2-pentanone	A	200.0	237.9	0.1734344	0.2062836		18.9	20	
Methyl t-Butyl Ether	A	100.0	121.0	0.5847072	0.707333		21.0	20	*
n-Propylbenzene	A	100.0	107.1	2.077827	2.225655		7.1	20	
Styrene	A	100.0	106.9	1.58216	1.691866		6.9	20	
1,1,2,2-Tetrachloroethane	A	100.0	107.7	0.5617003	0.6047984	0.3	7.7	20	
1,1,1,2-Tetrachloroethane	A	100.0	106.9	0.6203306	0.6633304		6.9	20	
Tetrachloroethene	A	100.0	101.6	0.7377491	0.7498069		1.6	20	
Toluene	A	100.0	101.6	1.341681	1.362975		1.6	20	
1,2,3-Trichlorobenzene	A	100.0	121.3	0.5885341	0.7138531		21.3	20	*
1,2,4-Trichlorobenzene	A	100.0	113.3	0.6548499	0.7422601		13.3	20	
1,1,2-Trichloroethane	A	100.0	103.4	0.4819472	0.4982458		3.4	20	
1,1,1-Trichloroethane	A	100.0	122.6	0.3182995	0.3902464		22.6	20	*
Trichloroethene	A	100.0	116.5	0.2365637	0.2755444		16.5	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0212CCVE.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04509	Injection Date:	02/12/11
Lab Sample ID:	1B04509-CCV1	Injection Time:	23:38

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	119.0	0.3726959	0.4434019		19.0	20
1,2,3-Trichloropropane	A	100.0	111.2	0.1879384	0.2089365		11.2	20
1,3,5-Trimethylbenzene	A	100.0	108.1	1.460301	1.578145		8.1	20
1,2,4-Trimethylbenzene	A	100.0	106.2	1.5051	1.598183		6.2	20
Vinyl chloride	A	100.0	104.6	0.1667217	0.1743881		4.6	20
m,p-Xylene	A	200.0	197.9	1.800979	1.782051		-1.1	20
o-Xylene	A	100.0	101.9	1.868187	1.903818		1.9	20
Bromofluorobenzene	A	30.00	29.08	0.957387	0.9280535		-3.1	20
Dibromofluoromethane	A	30.00	31.31	0.3249097	0.3391501		4.4	20
1,2-Dichloroethane-d4	A	30.00	31.92	6.571543E-02	6.991236E-02		6.4	20
Toluene-d8	A	30.00	28.10	2.437291	2.28288		-6.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0214CCVE.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04609	Injection Date:	02/14/11
Lab Sample ID:	1B04609-CCV1	Injection Time:	20:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	200.0	247.8	6.348042E-02	7.865702E-02		23.9	20	*
Benzene	A	100.0	108.9	0.8183504	0.8910906		8.9	20	
Bromobenzene	A	100.0	114.5	0.7130765	0.8166076		14.5	20	
Bromochloromethane	A	100.0	115.0	0.1506323	0.1732903		15.0	20	
Bromodichloromethane	A	100.0	119.1	0.3027916	0.3606831		19.1	20	
Bromoform	A	100.0	123.4	0.5699803	0.7031477	0.1	23.4	20	*
Bromomethane	L	100.0	87.69	0.1299074	0.1360979		-12.3	20	
n-Butylbenzene	A	100.0	106.3	1.217717	1.294281		6.3	20	
2-Butanone	L	200.0	186.9	0.0859897	9.384415E-02		-6.6	20	
sec-Butylbenzene	A	100.0	111.2	1.6733	1.860519		11.2	20	
tert-Butylbenzene	A	100.0	110.0	1.187017	1.306007		10.0	20	
Carbon disulfide	A	100.0	110.4	0.7469286	0.8246958		10.4	20	
Carbon tetrachloride	A	100.0	119.5	0.2803579	0.3349545		19.5	20	
Chlorobenzene	A	100.0	101.0	1.569517	1.585404	0.3	1.0	20	
Chloroethane	A	100.0	113.8	0.1568842	0.1785398		13.8	20	
Chloroform	A	100.0	111.5	0.4305875	0.4799741		11.5	20	
Chloromethane	A	100.0	103.6	0.1946412	0.2016723	0.1	3.6	20	
2-Chlorotoluene	A	100.0	112.0	1.424715	1.595871		12.0	20	
4-Chlorotoluene	A	100.0	112.4	1.457508	1.638799		12.4	20	
Dibromochloromethane	A	100.0	107.8	0.7402924	0.7979879		7.8	20	
1,2-Dibromo-3-chloropropane	L	100.0	112.3	0.1405829	0.1838799		12.3	20	
1,2-Dibromoethane (EDB)	A	100.0	109.8	0.6476013	0.7111065		9.8	20	
Dibromomethane	A	100.0	119.0	0.1687338	0.2008877		19.1	20	
1,2-Dichlorobenzene	A	100.0	109.0	1.071477	1.167555		9.0	20	
1,3-Dichlorobenzene	A	100.0	124.5	1.109664	1.381629		24.5	20	*
1,4-Dichlorobenzene	A	100.0	92.88	1.185544	1.10109		-7.1	20	
Dichlorodifluoromethane	L	100.0	123.5	0.222674	0.2847348		23.5	20	*
1,1-Dichloroethane	A	100.0	111.0	0.4081297	0.4531899	0.1	11.0	20	
1,2-Dichloroethane	A	100.0	124.6	0.2844065	0.35423		24.6	20	*

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0214CCVE.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04609	Injection Date:	02/14/11
Lab Sample ID:	1B04609-CCV1	Injection Time:	20:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	100.0	110.8	0.2163828	0.2397409		10.8	20	
cis-1,2-Dichloroethene	A	100.0	108.6	0.2711242	0.2945207		8.6	20	
trans-1,2-Dichloroethene	A	100.0	107.7	0.2561505	0.2758815		7.7	20	
1,2-Dichloropropane	A	100.0	107.7	0.2147841	0.2313989		7.7	20	
1,3-Dichloropropane	A	100.0	103.2	0.8727974	0.9007913		3.2	20	
2,2-Dichloropropane	A	100.0	85.56	0.313679	0.2683713		-14.4	20	
1,1-Dichloropropene	A	100.0	112.6	0.2975675	0.3349308		12.6	20	
cis-1,3-Dichloropropene	A	100.0	110.6	0.3476874	0.3845353		10.6	20	
trans-1,3-Dichloropropene	A	100.0	102.9	0.8140528	0.8375411		2.9	20	
Ethylbenzene	A	100.0	105.7	2.362031	2.496199		5.7	20	
Hexachlorobutadiene	A	100.0	102.2	0.2884888	0.2947109		2.2	20	
2-Hexanone	A	200.0	242.4	0.3128498	0.3792008		21.2	20	*
Isopropylbenzene	A	100.0	104.6	1.87632	1.96222		4.6	20	
p-Isopropyltoluene	A	100.0	103.8	1.319723	1.369612		3.8	20	
Methylene chloride	L	100.0	106.7	0.3495467	0.2863317		6.7	20	
Naphthalene	A	100.0	120.6	1.354318	1.632935		20.6	20	*
4-Methyl-2-pentanone	A	200.0	249.3	0.1734344	0.216211		24.7	20	*
Methyl t-Butyl Ether	A	100.0	114.7	0.5847072	0.6705581		14.7	20	
n-Propylbenzene	A	100.0	113.7	2.077827	2.36166		13.7	20	
Styrene	A	100.0	107.8	1.58216	1.705815		7.8	20	
1,1,2,2-Tetrachloroethane	A	100.0	111.7	0.5617003	0.6273773	0.3	11.7	20	
1,1,1,2-Tetrachloroethane	A	100.0	104.7	0.6203306	0.6494035		4.7	20	
Tetrachloroethene	A	100.0	100.7	0.7377491	0.7430623		0.7	20	
Toluene	A	100.0	97.93	1.341681	1.313961		-2.1	20	
1,2,3-Trichlorobenzene	A	100.0	120.6	0.5885341	0.7096738		20.6	20	*
1,2,4-Trichlorobenzene	A	100.0	116.8	0.6548499	0.7649508		16.8	20	
1,1,2-Trichloroethane	A	100.0	102.4	0.4819472	0.4933279		2.4	20	
1,1,1-Trichloroethane	A	100.0	115.4	0.3182995	0.3672588		15.4	20	
Trichloroethene	A	100.0	111.2	0.2365637	0.2629586		11.2	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0214CCVE.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04609	Injection Date:	02/14/11
Lab Sample ID:	1B04609-CCV1	Injection Time:	20:45

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	117.0	0.3726959	0.4360355		17.0	20
1,2,3-Trichloropropane	A	100.0	111.3	0.1879384	0.2091664		11.3	20
1,3,5-Trimethylbenzene	A	100.0	109.8	1.460301	1.602735		9.8	20
1,2,4-Trimethylbenzene	A	100.0	109.3	1.5051	1.645552		9.3	20
Vinyl chloride	A	100.0	102.0	0.1667217	0.1700264		2.0	20
m,p-Xylene	A	200.0	206.0	1.800979	1.854793		3.0	20
o-Xylene	A	100.0	102.6	1.868187	1.916103		2.6	20
Bromofluorobenzene	A	30.00	31.59	0.957387	1.008144		5.3	20
Dibromofluoromethane	A	30.00	30.69	0.3249097	0.332432		2.3	20
1,2-Dichloroethane-d4	A	30.00	30.38	6.571543E-02	6.654967E-02		1.3	20
Toluene-d8	A	30.00	27.49	2.437291	2.2334		-8.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0215CCV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04702	Injection Date:	02/15/11
Lab Sample ID:	1B04702-CCV1	Injection Time:	06:36

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	242.1	6.734143E-02	8.150678E-02		21.0	20 *
Benzene	A	100.0	98.83	0.8877526	0.8773917		-1.2	20
Bromobenzene	A	100.0	98.22	0.658417	0.6467234		-1.8	20
Bromochloromethane	A	100.0	108.0	0.1221319	0.1319544		8.0	20
Bromodichloromethane	A	100.0	122.1	0.2617577	0.3196334		22.1	20 *
Bromoform	L	100.0	114.5	0.2222152	0.3741278	0.1	14.5	20
Bromomethane	L	100.0	82.89	0.134767	0.1340561		-17.1	20
n-Butylbenzene	A	100.0	97.24	1.373729	1.335891		-2.8	20
2-Butanone	A	200.0	224.5	0.1029735	0.1155771		12.2	20
sec-Butylbenzene	A	100.0	97.93	1.78503	1.748086		-2.1	20
tert-Butylbenzene	A	100.0	97.57	1.508831	1.472162		-2.4	20
Carbon disulfide	A	100.0	111.9	0.6389933	0.7149183		11.9	20
Carbon tetrachloride	L	100.0	107.8	0.2178602	0.2899182		7.8	20
Chlorobenzene	A	100.0	97.12	1.436424	1.39512	0.3	-2.9	20
Chloroethane	A	100.0	109.4	0.1259794	0.1378617		9.4	20
Chloroform	A	100.0	105.5	0.4027485	0.4249629		5.5	20
Chloromethane	A	100.0	107.1	0.2467998	0.2642331	0.1	7.1	20
2-Chlorotoluene	A	100.0	96.11	1.557085	1.4965		-3.9	20
4-Chlorotoluene	A	100.0	97.76	1.615142	1.57895		-2.2	20
Dibromochloromethane	L	100.0	108.6	0.3561249	0.4967326		8.6	20
1,2-Dibromo-3-chloropropane	L	100.0	101.8	0.1049106	0.1382968		1.8	20
1,2-Dibromoethane (EDB)	A	100.0	104.1	0.4787408	0.4983342		4.1	20
Dibromomethane	A	100.0	106.9	0.155373	0.1661501		6.9	20
1,2-Dichlorobenzene	A	100.0	98.47	1.083088	1.066532		-1.5	20
1,3-Dichlorobenzene	A	100.0	94.02	1.123795	1.056587		-6.0	20
1,4-Dichlorobenzene	A	100.0	99.91	1.153886	1.152823		-0.09	20
Dichlorodifluoromethane	A	100.0	147.0	0.1736804	0.2552551		47.0	20 *
1,1-Dichloroethane	A	100.0	104.0	0.4157175	0.4323224	0.1	4.0	20
1,2-Dichloroethane	A	100.0	112.5	0.3303627	0.3716932		12.5	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0215CCV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04702	Injection Date:	02/15/11
Lab Sample ID:	1B04702-CCV1	Injection Time:	06:36

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	100.0	107.2	0.1766574	0.1894503		7.2	20	
cis-1,2-Dichloroethene	A	100.0	102.8	0.2378304	0.2445163		2.8	20	
trans-1,2-Dichloroethene	A	100.0	102.1	0.2137549	0.2182384		2.1	20	
1,2-Dichloropropane	A	100.0	101.8	0.2562795	0.2609323		1.8	20	
1,3-Dichloropropane	A	100.0	98.57	0.7476228	0.7369287		-1.4	20	
2,2-Dichloropropane	A	100.0	112.8	0.3047453	0.3439238		12.9	20	
1,1-Dichloropropene	A	100.0	104.6	0.3077578	0.3220072		4.6	20	
cis-1,3-Dichloropropene	A	100.0	110.3	0.3687261	0.4065956		10.3	20	
trans-1,3-Dichloropropene	A	100.0	110.5	0.6343731	0.7012779		10.5	20	
Ethylbenzene	A	100.0	94.61	2.356804	2.22974		-5.4	20	
Hexachlorobutadiene	L	100.0	104.0	0.3096349	0.3084868		4.0	20	
2-Hexanone	L	200.0	213.7	0.3159287	0.3786324		6.8	20	
Isopropylbenzene	A	100.0	97.08	1.931811	1.875332		-2.9	20	
p-Isopropyltoluene	A	100.0	99.32	1.341973	1.332925		-0.7	20	
Methylene chloride	A	100.0	98.97	0.2430347	0.2405367		-1.0	20	
Naphthalene	A	100.0	100.3	1.637823	1.643357		0.3	20	
4-Methyl-2-pentanone	A	200.0	240.9	0.2213585	0.2665841		20.4	20	*
Methyl t-Butyl Ether	A	100.0	106.6	0.5783993	0.6166453		6.6	20	
n-Propylbenzene	A	100.0	94.33	2.265422	2.137077		-5.7	20	
Styrene	A	100.0	100.1	1.55917	1.560708		0.1	20	
1,1,2,2-Tetrachloroethane	A	100.0	97.20	0.5234688	0.5088362	0.3	-2.8	20	
1,1,1,2-Tetrachloroethane	A	100.0	124.8	0.3922633	0.4894384		24.8	20	*
Tetrachloroethene	A	100.0	98.73	0.5803178	0.5729628		-1.3	20	
Toluene	A	100.0	94.50	1.266817	1.197148		-5.5	20	
1,2,3-Trichlorobenzene	A	100.0	99.97	0.6692996	0.6691237		-0.03	20	
1,2,4-Trichlorobenzene	A	100.0	98.76	0.7430317	0.7338596		-1.2	20	
1,1,2-Trichloroethane	A	100.0	96.74	0.3774056	0.3651148		-3.3	20	
1,1,1-Trichloroethane	A	100.0	115.6	0.3181209	0.3676461		15.6	20	
Trichloroethene	A	100.0	104.6	0.2462319	0.2576657		4.6	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0215CCV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04702	Injection Date:	02/15/11
Lab Sample ID:	1B04702-CCV1	Injection Time:	06:36

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	117.4	0.3227014	0.3788147		17.4	20
1,2,3-Trichloropropane	A	100.0	104.2	0.1759719	0.1834575		4.3	20
1,3,5-Trimethylbenzene	A	100.0	97.83	1.631362	1.595989		-2.2	20
1,2,4-Trimethylbenzene	A	100.0	97.99	1.6879	1.653972		-2.0	20
Vinyl chloride	A	100.0	104.9	0.211655	0.2220239		4.9	20
m,p-Xylene	A	200.0	168.8	1.94475	1.641216		-15.6	20
o-Xylene	A	100.0	91.07	2.049863	1.866765		-8.9	20
Bromofluorobenzene	A	30.00	30.19	0.9432064	0.9491692		0.6	20
Dibromofluoromethane	A	30.00	30.90	0.2525351	0.260088		3.0	20
1,2-Dichloroethane-d4	A	30.00	30.32	5.392485E-02	5.450551E-02		1.1	20
Toluene-d8	A	30.00	28.96	2.159642	2.084692		-3.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0215CCVE.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04703	Injection Date:	02/15/11
Lab Sample ID:	1B04703-CCV1	Injection Time:	18:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	200.0	233.2	6.734143E-02	7.852419E-02		16.6	20	
Benzene	A	100.0	99.56	0.8877526	0.8838162		-0.4	20	
Bromobenzene	A	100.0	104.6	0.658417	0.6888084		4.6	20	
Bromochloromethane	A	100.0	112.4	0.1221319	0.1372942		12.4	20	
Bromodichloromethane	A	100.0	126.4	0.2617577	0.3308509		26.4	20	*
Bromoform	L	100.0	121.0	0.2222152	0.3962826	0.1	21.0	20	*
Bromomethane	L	100.0	86.96	0.134767	0.1407883		-13.0	20	
n-Butylbenzene	A	100.0	97.20	1.373729	1.335327		-2.8	20	
2-Butanone	A	200.0	210.0	0.1029735	0.1081246		5.0	20	
sec-Butylbenzene	A	100.0	98.60	1.78503	1.760051		-1.4	20	
tert-Butylbenzene	A	100.0	97.96	1.508831	1.478071		-2.0	20	
Carbon disulfide	A	100.0	111.9	0.6389933	0.7149826		11.9	20	
Carbon tetrachloride	L	100.0	111.0	0.2178602	0.2989678		11.0	20	
Chlorobenzene	A	100.0	100.4	1.436424	1.441615	0.3	0.4	20	
Chloroethane	A	100.0	114.1	0.1259794	0.1438017		14.1	20	
Chloroform	A	100.0	110.1	0.4027485	0.4433216		10.1	20	
Chloromethane	A	100.0	112.1	0.2467998	0.2766382	0.1	12.1	20	
2-Chlorotoluene	A	100.0	100.8	1.557085	1.56938		0.8	20	
4-Chlorotoluene	A	100.0	101.9	1.615142	1.645426		1.9	20	
Dibromochloromethane	L	100.0	115.2	0.3561249	0.527787		15.2	20	
1,2-Dibromo-3-chloropropane	L	100.0	113.5	0.1049106	0.1547081		13.5	20	
1,2-Dibromoethane (EDB)	A	100.0	110.3	0.4787408	0.5282129		10.3	20	
Dibromomethane	A	100.0	114.2	0.155373	0.1773754		14.2	20	
1,2-Dichlorobenzene	A	100.0	104.5	1.083088	1.131608		4.5	20	
1,3-Dichlorobenzene	A	100.0	96.83	1.123795	1.088199		-3.2	20	
1,4-Dichlorobenzene	A	100.0	105.2	1.153886	1.214005		5.2	20	
Dichlorodifluoromethane	A	100.0	138.9	0.1736804	0.2413017		38.9	20	*
1,1-Dichloroethane	A	100.0	107.1	0.4157175	0.4453875	0.1	7.1	20	
1,2-Dichloroethane	A	100.0	117.0	0.3303627	0.3865022		17.0	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0215CCVE.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04703	Injection Date:	02/15/11
Lab Sample ID:	1B04703-CCV1	Injection Time:	18:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	100.0	105.7	0.1766574	0.1867098		5.7	20	
cis-1,2-Dichloroethene	A	100.0	104.8	0.2378304	0.2493649		4.8	20	
trans-1,2-Dichloroethene	A	100.0	105.3	0.2137549	0.2250773		5.3	20	
1,2-Dichloropropane	A	100.0	105.7	0.2562795	0.2709127		5.7	20	
1,3-Dichloropropane	A	100.0	107.4	0.7476228	0.8029458		7.4	20	
2,2-Dichloropropane	A	100.0	97.25	0.3047453	0.2963788		-2.7	20	
1,1-Dichloropropene	A	100.0	105.4	0.3077578	0.3243855		5.4	20	
cis-1,3-Dichloropropene	A	100.0	110.6	0.3687261	0.4079495		10.6	20	
trans-1,3-Dichloropropene	A	100.0	114.5	0.6343731	0.726367		14.5	20	
Ethylbenzene	A	100.0	97.25	2.356804	2.291934		-2.8	20	
Hexachlorobutadiene	L	100.0	100.1	0.3096349	0.2968648		0.1	20	
2-Hexanone	L	200.0	209.2	0.3159287	0.3708021		4.6	20	
Isopropylbenzene	A	100.0	99.74	1.931811	1.926886		-0.3	20	
p-Isopropyltoluene	A	100.0	100.1	1.341973	1.343262		0.1	20	
Methylene chloride	A	100.0	103.0	0.2430347	0.2504562		3.1	20	
Naphthalene	A	100.0	108.1	1.637823	1.770369		8.1	20	
4-Methyl-2-pentanone	A	200.0	237.8	0.2213585	0.2632554		18.9	20	
Methyl t-Butyl Ether	A	100.0	111.7	0.5783993	0.6463534		11.7	20	
n-Propylbenzene	A	100.0	96.60	2.265422	2.188342		-3.4	20	
Styrene	A	100.0	103.6	1.55917	1.614537		3.6	20	
1,1,2,2-Tetrachloroethane	A	100.0	106.0	0.5234688	0.5550588	0.3	6.0	20	
1,1,1,2-Tetrachloroethane	A	100.0	130.7	0.3922633	0.512783		30.7	20	*
Tetrachloroethene	A	100.0	99.58	0.5803178	0.5778679		-0.4	20	
Toluene	A	100.0	96.86	1.266817	1.227077		-3.1	20	
1,2,3-Trichlorobenzene	A	100.0	105.7	0.6692996	0.7073315		5.7	20	
1,2,4-Trichlorobenzene	A	100.0	101.5	0.7430317	0.7544759		1.5	20	
1,1,2-Trichloroethane	A	100.0	103.7	0.3774056	0.391517		3.7	20	
1,1,1-Trichloroethane	A	100.0	117.6	0.3181209	0.3741048		17.6	20	
Trichloroethene	A	100.0	107.8	0.2462319	0.2655019		7.8	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0215CCVE.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04703	Injection Date:	02/15/11
Lab Sample ID:	1B04703-CCV1	Injection Time:	18:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	112.2	0.3227014	0.3621087		12.2	20
1,2,3-Trichloropropane	A	100.0	115.6	0.1759719	0.2033623		15.6	20
1,3,5-Trimethylbenzene	A	100.0	100.8	1.631362	1.645385		0.9	20
1,2,4-Trimethylbenzene	A	100.0	101.1	1.6879	1.706851		1.1	20
Vinyl chloride	A	100.0	111.7	0.211655	0.2364309		11.7	20
m,p-Xylene	A	200.0	172.5	1.94475	1.677718		-13.7	20
o-Xylene	A	100.0	95.35	2.049863	1.954493		-4.7	20
Bromofluorobenzene	A	30.00	29.96	0.9432064	0.9419363		-0.1	20
Dibromofluoromethane	A	30.00	30.66	0.2525351	0.2581216		2.2	20
1,2-Dichloroethane-d4	A	30.00	29.54	5.392485E-02	5.310251E-02		-1.5	20
Toluene-d8	A	30.00	29.23	2.159642	2.104473		-2.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0215CCV1.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04705	Injection Date:	02/15/11
Lab Sample ID:	1B04705-CCV1	Injection Time:	09:18

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	200.0	246.4	6.348042E-02	7.819516E-02		23.2	20	*
Benzene	A	100.0	107.3	0.8183504	0.8782445		7.3	20	
Bromobenzene	A	100.0	109.5	0.7130765	0.780905		9.5	20	
Bromochloromethane	A	100.0	111.7	0.1506323	0.1682361		11.7	20	
Bromodichloromethane	A	100.0	114.2	0.3027916	0.3458354		14.2	20	
Bromoform	A	100.0	111.5	0.5699803	0.6353044	0.1	11.5	20	
Bromomethane	L	100.0	99.10	0.1299074	0.1543109		-0.9	20	
n-Butylbenzene	A	100.0	106.9	1.217717	1.302044		6.9	20	
2-Butanone	L	200.0	206.2	0.0859897	0.1036685		3.1	20	
sec-Butylbenzene	A	100.0	105.9	1.6733	1.772715		5.9	20	
tert-Butylbenzene	A	100.0	104.8	1.187017	1.244227		4.8	20	
Carbon disulfide	A	100.0	111.4	0.7469286	0.8317487		11.4	20	
Carbon tetrachloride	A	100.0	115.9	0.2803579	0.3248251		15.9	20	
Chlorobenzene	A	100.0	103.0	1.569517	1.615894	0.3	3.0	20	
Chloroethane	A	100.0	107.5	0.1568842	0.1687187		7.5	20	
Chloroform	A	100.0	111.6	0.4305875	0.4804896		11.6	20	
Chloromethane	A	100.0	114.2	0.1946412	0.2222469	0.1	14.2	20	
2-Chlorotoluene	A	100.0	107.7	1.424715	1.534152		7.7	20	
4-Chlorotoluene	A	100.0	113.4	1.457508	1.652872		13.4	20	
Dibromochloromethane	A	100.0	106.2	0.7402924	0.786247		6.2	20	
1,2-Dibromo-3-chloropropane	L	100.0	104.3	0.1405829	0.1707495		4.3	20	
1,2-Dibromoethane (EDB)	A	100.0	104.4	0.6476013	0.6760264		4.4	20	
Dibromomethane	A	100.0	113.9	0.1687338	0.1922498		13.9	20	
1,2-Dichlorobenzene	A	100.0	107.4	1.071477	1.151063		7.4	20	
1,3-Dichlorobenzene	A	100.0	100.7	1.109664	1.117522		0.7	20	
1,4-Dichlorobenzene	A	100.0	111.3	1.185544	1.319128		11.3	20	
Dichlorodifluoromethane	L	100.0	123.5	0.222674	0.2848976		23.5	20	*
1,1-Dichloroethane	A	100.0	109.1	0.4081297	0.4451518	0.1	9.1	20	
1,2-Dichloroethane	A	100.0	121.4	0.2844065	0.3452891		21.4	20	*

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0215CCV1.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04705	Injection Date:	02/15/11
Lab Sample ID:	1B04705-CCV1	Injection Time:	09:18

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	100.0	107.9	0.2163828	0.2334475		7.9	20	
cis-1,2-Dichloroethene	A	100.0	108.6	0.2711242	0.2944893		8.6	20	
trans-1,2-Dichloroethene	A	100.0	103.6	0.2561505	0.2654794		3.6	20	
1,2-Dichloropropane	A	100.0	106.0	0.2147841	0.2276761		6.0	20	
1,3-Dichloropropane	A	100.0	105.2	0.8727974	0.9181565		5.2	20	
2,2-Dichloropropane	A	100.0	115.1	0.313679	0.3610778		15.1	20	
1,1-Dichloropropene	A	100.0	106.5	0.2975675	0.3168998		6.5	20	
cis-1,3-Dichloropropene	A	100.0	112.2	0.3476874	0.3901506		12.2	20	
trans-1,3-Dichloropropene	A	100.0	102.3	0.8140528	0.8324832		2.3	20	
Ethylbenzene	A	100.0	103.0	2.362031	2.432863		3.0	20	
Hexachlorobutadiene	A	100.0	102.6	0.2884888	0.296121		2.6	20	
2-Hexanone	A	200.0	235.9	0.3128498	0.3689967		17.9	20	
Isopropylbenzene	A	100.0	102.2	1.87632	1.917747		2.2	20	
p-Isopropyltoluene	A	100.0	104.1	1.319723	1.373459		4.1	20	
Methylene chloride	L	100.0	109.2	0.3495467	0.2931172		9.2	20	
Naphthalene	A	100.0	116.2	1.354318	1.573727		16.2	20	
4-Methyl-2-pentanone	A	200.0	243.3	0.1734344	0.2109955		21.7	20	*
Methyl t-Butyl Ether	A	100.0	113.5	0.5847072	0.6639019		13.5	20	
n-Propylbenzene	A	100.0	107.3	2.077827	2.228733		7.3	20	
Styrene	A	100.0	101.9	1.58216	1.612584		1.9	20	
1,1,2,2-Tetrachloroethane	A	100.0	104.9	0.5617003	0.5893217	0.3	4.9	20	
1,1,1,2-Tetrachloroethane	A	100.0	102.1	0.6203306	0.6331289		2.1	20	
Tetrachloroethene	A	100.0	101.7	0.7377491	0.7504268		1.7	20	
Toluene	A	100.0	101.7	1.341681	1.36396		1.7	20	
1,2,3-Trichlorobenzene	A	100.0	113.4	0.5885341	0.6671973		13.4	20	
1,2,4-Trichlorobenzene	A	100.0	114.8	0.6548499	0.7519756		14.8	20	
1,1,2-Trichloroethane	A	100.0	98.14	0.4819472	0.4729636		-1.9	20	
1,1,1-Trichloroethane	A	100.0	116.7	0.3182995	0.371482		16.7	20	
Trichloroethene	A	100.0	110.0	0.2365637	0.2602251		10.0	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1039001
Lab File ID:	0215CCV1.D	Calibration Date:	02/07/11 07:30
Sequence:	1B04705	Injection Date:	02/15/11
Lab Sample ID:	1B04705-CCV1	Injection Time:	09:18

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	112.7	0.3726959	0.4200761		12.7	20
1,2,3-Trichloropropane	A	100.0	107.4	0.1879384	0.2018674		7.4	20
1,3,5-Trimethylbenzene	A	100.0	106.5	1.460301	1.554703		6.5	20
1,2,4-Trimethylbenzene	A	100.0	105.7	1.5051	1.590484		5.7	20
Vinyl chloride	A	100.0	104.1	0.1667217	0.1736253		4.1	20
m,p-Xylene	A	200.0	186.6	1.800979	1.680058		-6.7	20
o-Xylene	A	100.0	99.69	1.868187	1.862334		-0.3	20
Bromofluorobenzene	A	30.00	30.03	0.957387	0.9584109		0.1	20
Dibromofluoromethane	A	30.00	30.95	0.3249097	0.33523		3.2	20
1,2-Dichloroethane-d4	A	30.00	30.66	6.571543E-02	6.715699E-02		2.2	20
Toluene-d8	A	30.00	28.91	2.437291	2.348444		-3.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B12014-BLK1 File ID: 0212BL1E.D

Sampled: Prepared: Analyzed: 02/13/11 01:36

Solids: Preparation: 5030B Dilution:

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	X, U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	X, U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.497	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B12014-BLK1 File ID: 0212BL1E.D

Sampled: Prepared: Analyzed: 02/13/11 01:36

Solids: Preparation: 5030B Dilution:

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	X, U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.00	96.7	75 - 120	
Dibromofluoromethane	30.00	30.27	101	85 - 115	
1,2-Dichloroethane-d4	30.00	28.62	95.4	70 - 120	
Toluene-d8	30.00	27.58	91.9	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B12014-BS1 File ID: 0212LS1E.D

Sampled: Prepared: Analyzed: 02/13/11 00:08

Solids: Preparation: 5030B Dilution:

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	117	2.50	5.00	10.0	
71-43-2	Benzene	51.6	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.1	0.250	0.500	1.00	
74-97-5	Bromochloromethane	53.9	0.250	0.500	1.00	X
75-27-4	Bromodichloromethane	56.5	0.250	0.500	1.00	X
75-25-2	Bromoform	54.0	0.250	0.500	1.00	
74-83-9	Bromomethane	40.7	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	50.5	0.250	0.500	1.00	
78-93-3	2-Butanone	93.9	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	51.2	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	51.3	0.250	0.500	1.00	
75-15-0	Carbon disulfide	51.5	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	52.8	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	51.6	0.250	0.500	1.00	
75-00-3	Chloroethane	54.6	0.500	1.00	2.00	
67-66-3	Chloroform	50.2	0.250	0.500	1.00	
74-87-3	Chloromethane	54.3	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	49.3	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	49.6	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	52.4	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	43.4	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	50.7	0.250	0.500	1.00	
74-95-3	Dibromomethane	53.5	0.250	0.500	1.00	X
95-50-1	1,2-Dichlorobenzene	51.1	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	48.9	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.8	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	64.7	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	52.3	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	54.8	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	54.8	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	50.0	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	50.5	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.5	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	49.8	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	41.2	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	50.7	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	49.8	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	55.6	0.250	0.500	1.00	
100-41-4	Ethylbenzene	51.7	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	49.6	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B12014-BS1 File ID: 0212LS1E.D

Sampled: Prepared: Analyzed: 02/13/11 00:08

Solids: Preparation: 5030B Dilution:

Batch: 1B12014 Sequence: 1B04509 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	121	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	54.2	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	52.4	0.250	0.500	1.00	
75-09-2	Methylene chloride	50.6	0.500	1.00	2.00	
91-20-3	Naphthalene	50.1	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	117	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	102	0.250	0.500	1.00	X
103-65-1	n-Propylbenzene	50.5	0.250	0.500	1.00	
100-42-5	Styrene	51.5	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.4	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	53.4	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	50.9	0.250	0.500	1.00	
108-88-3	Toluene	48.7	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	48.2	0.250	0.500	1.00	X
120-82-1	1,2,4-Trichlorobenzene	49.0	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	52.1	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	50.9	0.250	0.500	1.00	X
79-01-6	Trichloroethene	53.3	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	53.6	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	47.8	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	49.3	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	51.4	0.250	0.500	1.00	
75-01-4	Vinyl chloride	56.5	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	101	0.500	1.00	2.00	
95-47-6	o-Xylene	51.5	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.24	101	75 - 120	
Dibromofluoromethane	30.00	30.48	102	85 - 115	
1,2-Dichloroethane-d4	30.00	30.63	102	70 - 120	
Toluene-d8	30.00	29.15	97.2	85 - 120	

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B14003-BLK1 File ID: 0214BL1E.D

Sampled: Prepared: Analyzed: 02/14/11 23:12

Solids: Preparation: 5030B Dilution:

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	X, U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	Q, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.303	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B14003-BLK1 File ID: 0214BL1E.D

Sampled: Prepared: Analyzed: 02/14/11 23:12

Solids: Preparation: 5030B Dilution:

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	X, U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	X, U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.45	101	75 - 120	
Dibromofluoromethane	30.00	30.15	100	85 - 115	
1,2-Dichloroethane-d4	30.00	30.17	101	70 - 120	
Toluene-d8	30.00	28.41	94.7	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B14003-BS1 File ID: 0214LS1E.D

Sampled: Prepared: Analyzed: 02/14/11 21:14

Solids: Preparation: 5030B Dilution:

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	127	2.50	5.00	10.0	X
71-43-2	Benzene	54.4	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.8	0.250	0.500	1.00	
74-97-5	Bromochloromethane	55.3	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	61.1	0.250	0.500	1.00	
75-25-2	Bromoform	56.0	0.250	0.500	1.00	X
74-83-9	Bromomethane	36.8	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	49.9	0.250	0.500	1.00	
78-93-3	2-Butanone	98.1	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	54.1	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	53.7	0.250	0.500	1.00	
75-15-0	Carbon disulfide	54.6	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	57.7	0.250	0.500	1.00	
108-90-7	Chlorobenzene	51.9	0.250	0.500	1.00	
75-00-3	Chloroethane	56.7	0.500	1.00	2.00	
67-66-3	Chloroform	53.5	0.250	0.500	1.00	
74-87-3	Chloromethane	54.3	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	51.6	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	51.9	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	54.2	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	50.5	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	53.3	0.250	0.500	1.00	
74-95-3	Dibromomethane	58.5	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.3	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.6	0.250	0.500	1.00	X
106-46-7	1,4-Dichlorobenzene	53.5	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	67.2	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	54.8	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	58.3	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	58.5	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	53.1	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	54.3	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	55.9	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	50.6	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	42.0	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	55.5	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	52.5	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	57.0	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.1	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	53.2	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B14003-BS1 File ID: 0214LS1E.D

Sampled: Prepared: Analyzed: 02/14/11 21:14

Solids: Preparation: 5030B Dilution:

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	124	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	54.5	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	55.1	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.9	0.500	1.00	2.00	
91-20-3	Naphthalene	58.7	0.250	0.500	1.00	X
108-10-1	4-Methyl-2-pentanone	131	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	111	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	53.4	0.250	0.500	1.00	
100-42-5	Styrene	52.7	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	53.1	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	53.6	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	52.0	0.250	0.500	1.00	
108-88-3	Toluene	50.0	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	54.0	0.250	0.500	1.00	X
120-82-1	1,2,4-Trichlorobenzene	53.4	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.6	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	55.7	0.250	0.500	1.00	
79-01-6	Trichloroethene	57.5	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	57.6	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	51.9	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	54.1	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	54.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride	57.6	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	103	0.500	1.00	2.00	
95-47-6	o-Xylene	49.4	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.85	96.2	75 - 120	
Dibromofluoromethane	30.00	30.54	102	85 - 115	
1,2-Dichloroethane-d4	30.00	30.41	101	70 - 120	
Toluene-d8	30.00	28.69	95.6	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B14003-BSD1 File ID: 0214LD1E.D

Sampled: Prepared: Analyzed: 02/15/11 08:04

Solids: Preparation: 5030B Dilution:

Batch: 1B14003 Sequence: 1B04609 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	121	2.50	5.00	10.0	X
71-43-2	Benzene	54.9	0.250	0.500	1.00	
108-86-1	Bromobenzene	54.2	0.250	0.500	1.00	
74-97-5	Bromochloromethane	58.4	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	60.3	0.250	0.500	1.00	
75-25-2	Bromoform	54.0	0.250	0.500	1.00	X
74-83-9	Bromomethane	42.6	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	49.5	0.250	0.500	1.00	
78-93-3	2-Butanone	97.6	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	50.1	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	52.1	0.250	0.500	1.00	
75-15-0	Carbon disulfide	54.5	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	57.7	0.250	0.500	1.00	
108-90-7	Chlorobenzene	51.6	0.250	0.500	1.00	
75-00-3	Chloroethane	44.8	0.500	1.00	2.00	
67-66-3	Chloroform	55.8	0.250	0.500	1.00	
74-87-3	Chloromethane	59.8	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	50.5	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	52.3	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	52.9	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	47.0	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	51.3	0.250	0.500	1.00	
74-95-3	Dibromomethane	57.8	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.2	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.9	0.250	0.500	1.00	X
106-46-7	1,4-Dichlorobenzene	48.7	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	66.3	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	55.0	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	62.1	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	58.1	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	54.8	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	53.0	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.8	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	48.3	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	32.8	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	54.6	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	51.5	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	52.7	0.250	0.500	1.00	
100-41-4	Ethylbenzene	50.5	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	43.3	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B14003-BSD1
File ID: 0214LD1E.D
Sampled:
Prepared:
Analyzed: 02/15/11 08:04
Solids:
Preparation: 5030B
Dilution:
Batch: 1B14003
Sequence: 1B04609
Calibration: 1039001
Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	108	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	54.4	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	52.2	0.250	0.500	1.00	
75-09-2	Methylene chloride	55.4	0.500	1.00	2.00	
91-20-3	Naphthalene	53.1	0.250	0.500	1.00	X
108-10-1	4-Methyl-2-pentanone	121	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	106	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	52.7	0.250	0.500	1.00	
100-42-5	Styrene	52.5	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	50.0	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	53.9	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	48.5	0.250	0.500	1.00	
108-88-3	Toluene	48.1	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	51.5	0.250	0.500	1.00	X
120-82-1	1,2,4-Trichlorobenzene	51.1	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	47.8	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	57.4	0.250	0.500	1.00	
79-01-6	Trichloroethene	53.6	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	57.9	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	50.9	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	50.3	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	51.9	0.250	0.500	1.00	
75-01-4	Vinyl chloride	61.6	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	102	0.500	1.00	2.00	
95-47-6	o-Xylene	50.8	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.67	98.9	75 - 120	
Dibromofluoromethane	30.00	31.00	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.37	101	70 - 120	
Toluene-d8	30.00	28.11	93.7	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B15001-BLK1 File ID: 0215BL1.D

Sampled: Prepared: Analyzed: 02/15/11 09:32

Solids: Preparation: 5030B Dilution:

Batch: 1B15001 Sequence: 1B04702 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B15001-BLK1 File ID: 0215BL1.D

Sampled: Prepared: Analyzed: 02/15/11 09:32

Solids: Preparation: 5030B Dilution:

Batch: 1B15001 Sequence: 1B04702 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	X, U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.79	103	75 - 120	
Dibromofluoromethane	30.00	30.87	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.05	100	70 - 120	
Toluene-d8	30.00	29.79	99.3	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B15001-BS1 File ID: 0215LS1.D

Sampled: Prepared: Analyzed: 02/15/11 07:36

Solids: Preparation: 5030B Dilution:

Batch: 1B15001 Sequence: 1B04702 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	102	2.50	5.00	10.0	X
71-43-2	Benzene	49.7	0.250	0.500	1.00	
108-86-1	Bromobenzene	50.5	0.250	0.500	1.00	
74-97-5	Bromochloromethane	52.7	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	60.6	0.250	0.500	1.00	X
75-25-2	Bromoform	52.6	0.250	0.500	1.00	
74-83-9	Bromomethane	35.7	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	49.9	0.250	0.500	1.00	
78-93-3	2-Butanone	97.0	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	50.7	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	52.2	0.250	0.500	1.00	
75-15-0	Carbon disulfide	55.0	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	53.5	0.250	0.500	1.00	
108-90-7	Chlorobenzene	52.6	0.250	0.500	1.00	
75-00-3	Chloroethane	51.5	0.500	1.00	2.00	
67-66-3	Chloroform	51.8	0.250	0.500	1.00	
74-87-3	Chloromethane	54.6	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	49.0	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	49.9	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	55.0	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	45.1	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	52.7	0.250	0.500	1.00	
74-95-3	Dibromomethane	51.9	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	50.8	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.5	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	48.9	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	77.1	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	51.3	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	53.3	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	55.5	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	50.2	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	52.5	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	50.7	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	50.2	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	52.1	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	51.8	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	51.0	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	61.0	0.250	0.500	1.00	
100-41-4	Ethylbenzene	51.6	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	51.0	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B15001-BS1 File ID: 0215LS1.D

Sampled: Prepared: Analyzed: 02/15/11 07:36

Solids: Preparation: 5030B Dilution:

Batch: 1B15001 Sequence: 1B04702 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	102	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	55.5	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	50.5	0.250	0.500	1.00	
75-09-2	Methylene chloride	49.9	0.500	1.00	2.00	
91-20-3	Naphthalene	46.4	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	114	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	95.6	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	51.4	0.250	0.500	1.00	
100-42-5	Styrene	53.0	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	46.5	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	63.0	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	51.8	0.250	0.500	1.00	
108-88-3	Toluene	50.8	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	45.5	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	46.6	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	49.6	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	54.9	0.250	0.500	1.00	
79-01-6	Trichloroethene	51.8	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	57.6	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	52.1	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	51.0	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	51.8	0.250	0.500	1.00	
75-01-4	Vinyl chloride	55.5	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	96.0	0.500	1.00	2.00	
95-47-6	o-Xylene	49.7	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.91	103	75 - 120	
Dibromofluoromethane	30.00	30.17	101	85 - 115	
1,2-Dichloroethane-d4	30.00	29.98	99.9	70 - 120	
Toluene-d8	30.00	30.54	102	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B15004-BLK1 File ID: 0215BLE.D

Sampled: Prepared: Analyzed: 02/15/11 20:25

Solids: Preparation: 5030B Dilution:

Batch: 1B15004 Sequence: 1B04703 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, X, U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.754	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B15004-BLK1 File ID: 0215BLE.D

Sampled: Prepared: Analyzed: 02/15/11 20:25

Solids: Preparation: 5030B Dilution:

Batch: 1B15004 Sequence: 1B04703 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	X, U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.91	103	75 - 120	
Dibromofluoromethane	30.00	30.46	102	85 - 115	
1,2-Dichloroethane-d4	30.00	29.85	99.5	70 - 120	
Toluene-d8	30.00	30.28	101	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B15004-BS1 File ID: 0215LS1E.D

Sampled: Prepared: Analyzed: 02/15/11 18:58

Solids: Preparation: 5030B Dilution:

Batch: 1B15004 Sequence: 1B04703 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	107	2.50	5.00	10.0	
71-43-2	Benzene	51.1	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.8	0.250	0.500	1.00	
74-97-5	Bromochloromethane	53.6	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	63.2	0.250	0.500	1.00	X
75-25-2	Bromoform	56.2	0.250	0.500	1.00	X
74-83-9	Bromomethane	36.2	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	50.6	0.250	0.500	1.00	
78-93-3	2-Butanone	94.6	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	51.7	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	53.2	0.250	0.500	1.00	
75-15-0	Carbon disulfide	55.5	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	54.2	0.250	0.500	1.00	
108-90-7	Chlorobenzene	53.0	0.250	0.500	1.00	
75-00-3	Chloroethane	53.4	0.500	1.00	2.00	
67-66-3	Chloroform	53.0	0.250	0.500	1.00	
74-87-3	Chloromethane	55.2	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	50.6	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	53.0	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	56.4	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	49.8	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	55.0	0.250	0.500	1.00	
74-95-3	Dibromomethane	55.0	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.2	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	53.1	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.9	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	72.3	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	52.0	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	57.1	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	54.9	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	51.1	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	51.5	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	52.1	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	52.7	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	45.6	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	52.2	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	51.3	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	60.2	0.250	0.500	1.00	
100-41-4	Ethylbenzene	52.1	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	54.3	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B15004-BS1 File ID: 0215LS1E.D

Sampled: Prepared: Analyzed: 02/15/11 18:58

Solids: Preparation: 5030B Dilution:

Batch: 1B15004 Sequence: 1B04703 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	98.1	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	55.1	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	52.3	0.250	0.500	1.00	
75-09-2	Methylene chloride	51.2	0.500	1.00	2.00	
91-20-3	Naphthalene	52.4	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	111	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	103	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	51.8	0.250	0.500	1.00	
100-42-5	Styrene	55.3	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	51.7	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	64.4	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	51.1	0.250	0.500	1.00	
108-88-3	Toluene	50.3	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	50.3	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	49.1	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	52.7	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	56.2	0.250	0.500	1.00	
79-01-6	Trichloroethene	52.8	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	57.1	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	54.8	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.4	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	53.1	0.250	0.500	1.00	
75-01-4	Vinyl chloride	55.6	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	97.0	0.500	1.00	2.00	
95-47-6	o-Xylene	50.3	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.31	104	75 - 120	
Dibromofluoromethane	30.00	30.42	101	85 - 115	
1,2-Dichloroethane-d4	30.00	30.50	102	70 - 120	
Toluene-d8	30.00	29.53	98.4	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B15004-MS1 File ID: 0208803M.D

Sampled: Prepared: Analyzed: 02/16/11 01:52

Solids: Preparation: 5030B Dilution:

Batch: 1B15004 Sequence: 1B04703 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	121	2.50	5.00	10.0	
71-43-2	Benzene	52.6	0.250	0.500	1.00	
108-86-1	Bromobenzene	53.2	0.250	0.500	1.00	
74-97-5	Bromochloromethane	54.9	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	63.3	0.250	0.500	1.00	Q, X
75-25-2	Bromoform	51.1	0.250	0.500	1.00	X
74-83-9	Bromomethane	37.8	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	52.0	0.250	0.500	1.00	
78-93-3	2-Butanone	99.2	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	53.1	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	54.4	0.250	0.500	1.00	
75-15-0	Carbon disulfide	59.0	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	54.6	0.250	0.500	1.00	
108-90-7	Chlorobenzene	53.3	0.250	0.500	1.00	
75-00-3	Chloroethane	54.4	0.500	1.00	2.00	
67-66-3	Chloroform	55.2	0.250	0.500	1.00	
74-87-3	Chloromethane	59.5	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	53.0	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	53.4	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	53.9	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	46.2	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	54.6	0.250	0.500	1.00	
74-95-3	Dibromomethane	56.6	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.1	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	53.0	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	52.2	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	83.6	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	54.7	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	58.8	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	59.0	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	51.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	54.4	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	54.5	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	52.2	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	37.4	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	55.7	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	50.6	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	57.5	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.6	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	49.1	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B15004-MS1 File ID: 0208803M.D

Sampled: Prepared: Analyzed: 02/16/11 01:52

Solids: Preparation: 5030B Dilution:

Batch: 1B15004 Sequence: 1B04703 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	102	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	56.4	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.2	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.3	0.500	1.00	2.00	
91-20-3	Naphthalene	49.3	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	119	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	103	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	53.5	0.250	0.500	1.00	
100-42-5	Styrene	53.9	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.9	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	62.5	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	52.5	0.250	0.500	1.00	
108-88-3	Toluene	61.4	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	47.3	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	47.0	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.8	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	58.7	0.250	0.500	1.00	
79-01-6	Trichloroethene	56.0	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	63.0	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	55.1	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.5	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	53.3	0.250	0.500	1.00	
75-01-4	Vinyl chloride	57.7	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	99.2	0.500	1.00	2.00	
95-47-6	o-Xylene	51.2	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.56	102	75 - 120	
Dibromofluoromethane	30.00	31.13	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.46	102	70 - 120	
Toluene-d8	30.00	29.52	98.4	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B15004-MSD1 File ID: 0208803S.D

Sampled: Prepared: Analyzed: 02/16/11 02:21

Solids: Preparation: 5030B Dilution:

Batch: 1B15004 Sequence: 1B04703 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	129	2.50	5.00	10.0	
71-43-2	Benzene	53.0	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.7	0.250	0.500	1.00	
74-97-5	Bromochloromethane	56.9	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	65.9	0.250	0.500	1.00	Q, X
75-25-2	Bromoform	54.2	0.250	0.500	1.00	X
74-83-9	Bromomethane	40.5	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	52.3	0.250	0.500	1.00	
78-93-3	2-Butanone	107	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	51.5	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	53.5	0.250	0.500	1.00	
75-15-0	Carbon disulfide	60.0	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	57.7	0.250	0.500	1.00	
108-90-7	Chlorobenzene	53.4	0.250	0.500	1.00	
75-00-3	Chloroethane	58.2	0.500	1.00	2.00	
67-66-3	Chloroform	57.2	0.250	0.500	1.00	
74-87-3	Chloromethane	62.0	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	51.8	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	53.4	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	55.9	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	49.8	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	55.1	0.250	0.500	1.00	
74-95-3	Dibromomethane	58.0	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.9	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	52.7	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.5	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	84.4	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	55.8	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	60.0	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	59.8	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	54.0	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	55.9	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	53.7	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	53.5	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	38.5	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	56.2	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	51.4	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	57.8	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.3	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	52.2	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B15004-MSD1 File ID: 0208803S.D

Sampled: Prepared: Analyzed: 02/16/11 02:21

Solids: Preparation: 5030B Dilution:

Batch: 1B15004 Sequence: 1B04703 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	111	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	56.9	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.0	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.2	0.500	1.00	2.00	
91-20-3	Naphthalene	52.9	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	127	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	107	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	53.1	0.250	0.500	1.00	
100-42-5	Styrene	54.3	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	52.2	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	64.0	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	52.5	0.250	0.500	1.00	
108-88-3	Toluene	59.6	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	48.4	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	48.9	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	52.3	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	59.8	0.250	0.500	1.00	
79-01-6	Trichloroethene	57.4	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	61.1	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	57.8	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.6	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	53.3	0.250	0.500	1.00	
75-01-4	Vinyl chloride	61.7	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	98.7	0.500	1.00	2.00	
95-47-6	o-Xylene	51.8	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.39	101	75 - 120	
Dibromofluoromethane	30.00	31.94	106	85 - 115	
1,2-Dichloroethane-d4	30.00	30.74	102	70 - 120	
Toluene-d8	30.00	28.91	96.4	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B15006-BLK1 File ID: 0215BL1.D

Sampled: Prepared: Analyzed: 02/15/11 11:33

Solids: Preparation: 5030B Dilution:

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Q, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.448	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B15006-BLK1 File ID: 0215BL1.D

Sampled: Prepared: Analyzed: 02/15/11 11:33

Solids: Preparation: 5030B Dilution:

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.50	108	75 - 120	
Dibromofluoromethane	30.00	30.35	101	85 - 115	
1,2-Dichloroethane-d4	30.00	30.41	101	70 - 120	
Toluene-d8	30.00	28.90	96.3	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B15006-BS1 File ID: 0215LS1.D

Sampled: Prepared: Analyzed: 02/15/11 10:05

Solids: Preparation: 5030B Dilution:

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	105	2.50	5.00	10.0	X
71-43-2	Benzene	51.2	0.250	0.500	1.00	
108-86-1	Bromobenzene	54.3	0.250	0.500	1.00	
74-97-5	Bromochloromethane	55.4	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	58.0	0.250	0.500	1.00	
75-25-2	Bromoform	56.2	0.250	0.500	1.00	
74-83-9	Bromomethane	45.1	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	49.5	0.250	0.500	1.00	
78-93-3	2-Butanone	97.8	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	50.8	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	51.2	0.250	0.500	1.00	
75-15-0	Carbon disulfide	54.7	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	51.1	0.250	0.500	1.00	
108-90-7	Chlorobenzene	52.7	0.250	0.500	1.00	
75-00-3	Chloroethane	55.8	0.500	1.00	2.00	
67-66-3	Chloroform	51.4	0.250	0.500	1.00	
74-87-3	Chloromethane	56.3	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	50.0	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	52.6	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	53.2	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	45.9	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	52.8	0.250	0.500	1.00	
74-95-3	Dibromomethane	54.0	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	51.4	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	57.3	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	46.9	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	63.0	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	53.1	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	55.1	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	56.8	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	51.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	54.5	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	50.6	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	48.8	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	51.5	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	50.4	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	52.4	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	57.2	0.250	0.500	1.00	
100-41-4	Ethylbenzene	55.0	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	50.3	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B15006-BS1 File ID: 0215LS1.D

Sampled: Prepared: Analyzed: 02/15/11 10:05

Solids: Preparation: 5030B Dilution:

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	109	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	54.9	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	54.4	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.4	0.500	1.00	2.00	
91-20-3	Naphthalene	52.1	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	109	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	107	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	53.0	0.250	0.500	1.00	
100-42-5	Styrene	57.3	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	51.5	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	53.0	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	51.2	0.250	0.500	1.00	
108-88-3	Toluene	51.8	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	53.4	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	50.7	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	48.0	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	51.9	0.250	0.500	1.00	
79-01-6	Trichloroethene	51.5	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	52.3	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	53.0	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	51.5	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	52.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride	55.2	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	104	0.500	1.00	2.00	
95-47-6	o-Xylene	52.5	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.33	101	75 - 120	
Dibromofluoromethane	30.00	28.95	96.5	85 - 115	
1,2-Dichloroethane-d4	30.00	30.47	102	70 - 120	
Toluene-d8	30.00	28.32	94.4	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B15006-BSD1 File ID: 0215LD1.D

Sampled: Prepared: Analyzed: 02/15/11 19:30

Solids: Preparation: 5030B Dilution:

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	108	2.50	5.00	10.0	X
71-43-2	Benzene	52.8	0.250	0.500	1.00	
108-86-1	Bromobenzene	53.5	0.250	0.500	1.00	
74-97-5	Bromochloromethane	54.5	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	61.6	0.250	0.500	1.00	
75-25-2	Bromoform	55.2	0.250	0.500	1.00	
74-83-9	Bromomethane	28.5	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	50.3	0.250	0.500	1.00	
78-93-3	2-Butanone	112	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	52.6	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	53.3	0.250	0.500	1.00	
75-15-0	Carbon disulfide	54.4	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	57.0	0.250	0.500	1.00	
108-90-7	Chlorobenzene	51.7	0.250	0.500	1.00	
75-00-3	Chloroethane	43.2	0.500	1.00	2.00	
67-66-3	Chloroform	54.1	0.250	0.500	1.00	
74-87-3	Chloromethane	51.9	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	52.3	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	55.5	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	55.1	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	44.0	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	53.4	0.250	0.500	1.00	
74-95-3	Dibromomethane	55.9	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.2	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	56.7	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	46.4	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	66.3	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	54.7	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	61.2	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	57.1	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	51.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	52.3	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.9	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	49.3	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	44.9	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	53.5	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	51.4	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	55.4	0.250	0.500	1.00	
100-41-4	Ethylbenzene	54.0	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	46.0	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B15006-BSD1 File ID: 0215LD1.D

Sampled: Prepared: Analyzed: 02/15/11 19:30

Solids: Preparation: 5030B Dilution:

Batch: 1B15006 Sequence: 1B04705 Calibration: 1039001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	108	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	57.1	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.5	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.6	0.500	1.00	2.00	
91-20-3	Naphthalene	52.6	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	108	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	105	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	53.6	0.250	0.500	1.00	
100-42-5	Styrene	55.9	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.7	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	53.4	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	51.8	0.250	0.500	1.00	
108-88-3	Toluene	49.6	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	49.8	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	50.6	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	48.4	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	56.4	0.250	0.500	1.00	
79-01-6	Trichloroethene	55.4	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	57.0	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	49.9	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	53.3	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	56.0	0.250	0.500	1.00	
75-01-4	Vinyl chloride	58.7	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	104	0.500	1.00	2.00	
95-47-6	o-Xylene	53.0	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.49	102	75 - 120	
Dibromofluoromethane	30.00	30.92	103	85 - 115	
1,2-Dichloroethane-d4	30.00	28.82	96.1	70 - 120	
Toluene-d8	30.00	28.28	94.3	85 - 120	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0014	02/07/11 11:15	02/08/11 08:45	02/12/11 00:00	N/A	14.00	02/13/11 04:33	5.72	14.00	
GW0028	02/07/11 15:16	02/08/11 08:45	02/12/11 00:00	N/A	14.00	02/13/11 05:03	5.57	14.00	
GW8009-TB	02/07/11 08:00	02/08/11 08:45	02/12/11 00:00	N/A	14.00	02/13/11 02:35	5.77	14.00	
GW0029	02/07/11 15:16	02/08/11 08:45	02/12/11 00:00	N/A	14.00	02/13/11 05:32	5.59	14.00	
GW0033	02/04/11 12:55	02/08/11 08:45	02/12/11 00:00	N/A	14.00	02/13/11 06:02	8.71	14.00	
GW8008-TB	02/04/11 08:00	02/08/11 08:45	02/12/11 00:00	N/A	14.00	02/13/11 03:04	8.79	14.00	
GW0025	02/08/11 12:04	02/09/11 08:45	02/14/11 00:00	N/A	14.00	02/15/11 04:37	6.69	14.00	
GW0027	02/08/11 16:08	02/09/11 08:45	02/14/11 00:00	N/A	14.00	02/15/11 05:07	6.54	14.00	
GW8001-AB	02/08/11 10:55	02/09/11 08:45	02/14/11 00:00	N/A	14.00	02/15/11 02:39	6.66	14.00	
GW8001-RB	02/08/11 08:45	02/09/11 08:45	02/14/11 00:00	N/A	14.00	02/15/11 01:10	6.68	14.00	
GW8010-TB	02/08/11 08:00	02/09/11 08:45	02/14/11 00:00	N/A	14.00	02/14/11 23:41	6.65	14.00	
GW0023	02/10/11 14:48	02/11/11 08:45	02/15/11 00:00	N/A	14.00	02/15/11 12:31	4.90	14.00	
GW0026	02/10/11 10:35	02/11/11 08:45	02/15/11 00:00	N/A	14.00	02/15/11 20:54	5.43	14.00	
GW8012-TB	02/10/11 08:00	02/11/11 08:45	02/15/11 00:00	N/A	14.00	02/15/11 10:02	5.08	14.00	
GW0024	02/09/11 11:48	02/10/11 11:45	02/15/11 00:00	N/A	14.00	02/15/11 13:32	6.03	14.00	
GW0030	02/09/11 14:52	02/10/11 11:45	02/15/11 00:00	N/A	14.00	02/15/11 14:01	5.92	14.00	
GW8011-TB	02/09/11 08:00	02/10/11 11:45	02/15/11 00:00	N/A	14.00	02/15/11 12:03	6.13	14.00	

Data for SW8270C Forms

ANALYSIS DATA SHEET

GW0033

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102063-01 File ID: 0206301.D

Sampled: 02/04/11 12:55 Prepared: 02/11/11 13:15 Analyzed: 02/15/11 20:31

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.20	2.40	4.81	U
83-32-9	Acenaphthene		1.20	2.40	4.81	U
208-96-8	Acenaphthylene		1.20	2.40	4.81	U
98-86-2	Acetophenone		1.20	2.40	4.81	U
120-12-7	Anthracene		1.20	2.40	4.81	U
1912-24-9	Atrazine		1.20	2.40	4.81	U
100-52-7	Benzaldehyde		1.20	2.40	4.81	Y, U
92-87-5	Benzidine		12.0	24.0	48.1	Y, U
56-55-3	Benzo(a)anthracene		1.20	2.40	4.81	U
50-32-8	Benzo(a)pyrene		1.20	2.40	4.81	U
205-99-2	Benzo(b)fluoranthene		1.20	2.40	4.81	U
191-24-2	Benzo(g,h,i)perylene		1.20	2.40	4.81	U
65-85-0	Benzoic acid		12.0	24.0	48.1	U
207-08-9	Benzo(k)fluoranthene		1.20	2.40	4.81	U
92-52-4	1,1-Biphenyl		1.20	2.40	4.81	U
101-55-3	4-Bromophenyl-phenylether		1.20	2.40	4.81	U
85-68-7	Butylbenzylphthalate		1.20	2.40	4.81	Q, U
105-60-2	Caprolactam		1.20	2.40	4.81	Q, U
86-74-8	Carbazole		1.20	2.40	4.81	U
59-50-7	4-Chloro-3-methylphenol		1.20	2.40	4.81	U
106-47-8	4-Chloroaniline		1.20	2.40	4.81	U
111-91-1	Bis(2-chloroethoxy)methane		1.20	2.40	4.81	U
111-44-4	Bis(2-chloroethyl)ether		1.20	2.40	4.81	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.20	2.40	4.81	U
91-58-7	2-Chloronaphthalene		1.20	2.40	4.81	U
95-57-8	2-Chlorophenol		1.20	2.40	4.81	U
7005-72-3	4-Chlorophenyl phenyl ether		1.20	2.40	4.81	U
218-01-9	Chrysene		1.20	2.40	4.81	U
53-70-3	Dibenz(a,h)anthracene		1.20	2.40	4.81	U
132-64-9	Dibenzofuran		1.20	2.40	4.81	U
84-74-2	Di-n-butylphthalate		1.20	2.40	4.81	U
120-83-2	2,4-Dichlorophenol		1.20	2.40	4.81	U
84-66-2	Diethylphthalate		1.20	2.40	4.81	U
105-67-9	2,4-Dimethylphenol		4.81	9.62	19.2	U
131-11-3	Dimethyl phthalate		1.20	2.40	4.81	U
534-52-1	4,6-Dinitro-2-methylphenol		4.81	9.62	19.2	X, U
51-28-5	2,4-Dinitrophenol		12.0	24.0	48.1	X, U
121-14-2	2,4-Dinitrotoluene		1.20	2.40	4.81	U
606-20-2	2,6-Dinitrotoluene		1.20	2.40	4.81	U
117-84-0	Di-n-octylphthalate		1.20	2.40	4.81	U

ANALYSIS DATA SHEET

GW0033

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102063-01 File ID: 0206301.D

Sampled: 02/04/11 12:55 Prepared: 02/11/11 13:15 Analyzed: 02/15/11 20:31

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.20	2.40	4.81	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.20	2.40	4.81	U
206-44-0	Fluoranthene		1.20	2.40	4.81	U
86-73-7	Fluorene		1.20	2.40	4.81	U
118-74-1	Hexachlorobenzene		1.20	2.40	4.81	U
87-68-3	Hexachlorobutadiene		1.20	2.40	4.81	Q, U
77-47-4	Hexachlorocyclopentadiene		1.20	2.40	4.81	Q, U
67-72-1	Hexachloroethane		1.20	2.40	4.81	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.20	2.40	4.81	U
78-59-1	Isophorone		1.20	2.40	4.81	U
90-12-0	1-Methylnaphthalene		1.20	2.40	4.81	U
91-57-6	2-Methylnaphthalene		1.20	2.40	4.81	U
95-48-7	2-Methylphenol		1.20	2.40	4.81	U
65794-96-9	3+4-Methylphenol		1.20	2.40	4.81	U
100-01-6	4-Nitroaniline		4.81	9.62	19.2	Q, X, U
99-09-2	3-Nitroaniline		4.81	9.62	19.2	U
88-74-4	2-Nitroaniline		4.81	9.62	19.2	U
98-95-3	Nitrobenzene		1.20	2.40	4.81	U
100-02-7	4-Nitrophenol		4.81	9.62	19.2	U
88-75-5	2-Nitrophenol		1.20	2.40	4.81	U
86-30-6	N-Nitrosodiphenylamine		1.20	2.40	4.81	U
621-64-7	N-Nitroso-di-n-propylamine		1.20	2.40	4.81	U
87-86-5	Pentachlorophenol		4.81	9.62	19.2	U
85-01-8	Phenanthrene		1.20	2.40	4.81	U
108-95-2	Phenol		1.20	2.40	4.81	U
129-00-0	Pyrene		1.20	2.40	4.81	X, U
88-06-2	2,4,6-Trichlorophenol		1.20	2.40	4.81	U
95-95-4	2,4,5-Trichlorophenol		1.20	2.40	4.81	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	48.08	38.49	80.1	50 - 110	
2-Fluorophenol	96.15	23.27	24.2	20 - 110	
Nitrobenzene-d5	48.08	36.29	75.5	40 - 110	
Phenol-d6	96.15	14.78	15.4	10 - 110	
Terphenyl-d14	48.08	52.44	109	50 - 135	
2,4,6-Tribromophenol	96.15	67.11	69.8	40 - 125	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04714
Instrument: MS-BNA1
Calibration: 1032006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04714-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 02/15/11 11:00		
2-Fluorobiphenyl	50.00	102	80 - 120	8.955	8.955	0.0000	+/-0.500	
2-Fluorophenol	100.0	99.8	80 - 120	4.696	4.696	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	96.4	80 - 120	6.797	6.797	0.0000	+/-0.500	
Phenol-d6	100.0	98.2	80 - 120	5.75	5.75	0.0000	+/-0.500	
Terphenyl-d14	50.00	109	80 - 120	13.534	13.534	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	102	80 - 120	10.738	10.738	0.0000	+/-0.500	
Blank (1B11003-BLK1) ug/L				Lab File ID: B11003B1.D		Analyzed: 02/15/11 18:37		
2-Fluorobiphenyl	50.00	56.7	50 - 110	8.952	8.955	-0.0030	+/-0.500	
2-Fluorophenol	100.0	21.0	20 - 110	4.7	4.696	0.0040	+/-0.500	
Nitrobenzene-d5	50.00	57.5	40 - 110	6.791	6.797	-0.0060	+/-0.500	
Phenol-d6	100.0	13.0	10 - 110	5.738	5.75	-0.0120	+/-0.500	
Terphenyl-d14	50.00	109	50 - 135	13.539	13.534	0.0050	+/-0.500	
2,4,6-Tribromophenol	100.0	77.3	40 - 125	10.727	10.738	-0.0110	+/-0.500	
LCS (1B11003-BS1) ug/L				Lab File ID: B11003L1.D		Analyzed: 02/15/11 19:06		
2-Fluorobiphenyl	50.00	81.2	50 - 110	8.958	8.955	0.0030	+/-0.500	
2-Fluorophenol	100.0	37.7	20 - 110	4.705	4.696	0.0090	+/-0.500	
Nitrobenzene-d5	50.00	81.8	40 - 110	6.8	6.797	0.0030	+/-0.500	
Phenol-d6	100.0	23.0	10 - 110	5.75	5.75	0.0000	+/-0.500	
Terphenyl-d14	50.00	105	50 - 135	13.541	13.534	0.0070	+/-0.500	
2,4,6-Tribromophenol	100.0	98.0	40 - 125	10.737	10.738	-0.0010	+/-0.500	
LCS Dup (1B11003-BSD1) ug/L				Lab File ID: B11003L2.D		Analyzed: 02/15/11 19:34		
2-Fluorobiphenyl	50.00	76.8	50 - 110	8.96	8.955	0.0050	+/-0.500	
2-Fluorophenol	100.0	28.5	20 - 110	4.706	4.696	0.0100	+/-0.500	
Nitrobenzene-d5	50.00	80.4	40 - 110	6.801	6.797	0.0040	+/-0.500	
Phenol-d6	100.0	19.9	10 - 110	5.746	5.75	-0.0040	+/-0.500	
Terphenyl-d14	50.00	110	50 - 135	13.536	13.534	0.0020	+/-0.500	
2,4,6-Tribromophenol	100.0	90.5	40 - 125	10.739	10.738	0.0010	+/-0.500	
GW0033 (1102063-01) ug/L				Lab File ID: 0206301.D		Analyzed: 02/15/11 20:31		
2-Fluorobiphenyl	48.08	80.1	50 - 110	8.955	8.955	0.0000	+/-0.500	
2-Fluorophenol	96.15	24.2	20 - 110	4.697	4.696	0.0010	+/-0.500	
Nitrobenzene-d5	48.08	75.5	40 - 110	6.796	6.797	-0.0010	+/-0.500	
Phenol-d6	96.15	15.4	10 - 110	5.736	5.75	-0.0140	+/-0.500	
Terphenyl-d14	48.08	109	50 - 135	13.54	13.534	0.0060	+/-0.500	
2,4,6-Tribromophenol	96.15	69.8	40 - 125	10.726	10.738	-0.0120	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B11003	Laboratory ID:	1B11003-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	50.00	49.89	99.8	20 - 110
Acenaphthene	50.00	41.86	83.7	45 - 110
Acenaphthylene	50.00	39.65	79.3	50 - 105
Acetophenone	50.00	41.94	83.9	50 - 110
Anthracene	50.00	46.11	92.2	55 - 110
Atrazine	50.00	53.65	107	70 - 115
Benzaldehyde	50.00	41.41	82.8	10 - 180
Benzidine	50.00	50.0 U	0	0 - 200
Benzo(a)anthracene	50.00	50.29	101	55 - 110
Benzo(a)pyrene	50.00	47.31	94.6	55 - 110
Benzo(b)fluoranthene	50.00	51.28	103	45 - 120
Benzo(g,h,i)perylene	50.00	56.86	114	40 - 125
Benzoic acid	50.00	12.78	25.6	0 - 125
Benzo(k)fluoranthene	50.00	52.28	105	45 - 125
1,1-Biphenyl	50.00	42.77	85.5	50 - 110
4-Bromophenyl-phenylether	50.00	49.48	99.0	50 - 115
Butylbenzylphthalate	**50.00**	**65.03**	**130**	**45 - 115**
Caprolactam	**50.00**	**9.009**	**18.0**	**20 - 110**
Carbazole	50.00	53.00	106	50 - 115
4-Chloro-3-methylphenol	50.00	46.61	93.2	45 - 110
4-Chloroaniline	50.00	36.01	72.0	15 - 110
Bis(2-chloroethoxy)methane	50.00	47.41	94.8	45 - 105
Bis(2-chloroethyl)ether	50.00	41.57	83.1	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	37.33	74.7	25 - 130
2-Chloronaphthalene	50.00	32.91	65.8	50 - 105
2-Chlorophenol	50.00	34.33	68.7	35 - 105
4-Chlorophenyl phenyl ether	50.00	44.64	89.3	50 - 110
Chrysene	50.00	51.71	103	55 - 110
Dibenz(a,h)anthracene	50.00	52.01	104	40 - 125
Dibenzofuran	50.00	41.56	83.1	55 - 105

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B11003
Laboratory ID: 1B11003-BS1
Preparation: EXT_3510
Initial/Final: 1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Di-n-butylphthalate	50.00	49.46	98.9	55 - 115
2,4-Dichlorophenol	50.00	44.09	88.2	40 - 110
Diethylphthalate	50.00	56.75	114	40 - 120
2,4-Dimethylphenol	50.00	38.59	77.2	30 - 110
Dimethyl phthalate	50.00	45.56	91.1	25 - 125
4,6-Dinitro-2-methylphenol	50.00	60.11	120	40 - 130
2,4-Dinitrophenol	50.00	58.51	117	15 - 140
2,4-Dinitrotoluene	50.00	53.64	107	50 - 120
2,6-Dinitrotoluene	50.00	50.43	101	50 - 115
Di-n-octylphthalate	50.00	60.91	122	35 - 135
1,2-Diphenylhydrazine	50.00	40.54	81.1	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	55.73	111	40 - 125
Fluoranthene	50.00	41.49	83.0	55 - 115
Fluorene	50.00	42.20	84.4	50 - 110
Hexachlorobenzene	50.00	50.62	101	50 - 110
Hexachlorobutadiene	**50.00**	**9.705**	**19.4**	**25 - 105**
Hexachlorocyclopentadiene	50.00	8.290	16.6	10 - 110
Hexachloroethane	**50.00**	**8.705**	**17.4**	**30 - 95**
Indeno(1,2,3-cd)pyrene	50.00	52.08	104	45 - 125
Isophorone	50.00	39.09	78.2	50 - 110
1-Methylnaphthalene	50.00	35.55	71.1	30 - 115
2-Methylnaphthalene	50.00	32.59	65.2	45 - 105
2-Methylphenol	50.00	30.21	60.4	40 - 110
3+4-Methylphenol	50.00	25.97	51.9	30 - 110
4-Nitroaniline	**50.00**	**67.28**	**135**	**35 - 120**
3-Nitroaniline	50.00	46.20	92.4	20 - 125
2-Nitroaniline	50.00	47.85	95.7	50 - 115
Nitrobenzene	50.00	38.57	77.1	30 - 110
4-Nitrophenol	50.00	14.74	29.5	0 - 125
2-Nitrophenol	50.00	45.96	91.9	40 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B11003
Laboratory ID: 1B11003-BS1
Preparation: EXT_3510
Initial/Final: 1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
N-Nitrosodiphenylamine	50.00	36.70	73.4	50 - 110
N-Nitroso-di-n-propylamine	50.00	41.98	84.0	35 - 130
Pentachlorophenol	50.00	51.80	104	40 - 115
Phenanthrene	50.00	48.00	96.0	50 - 115
Phenol	50.00	14.13	28.3	0 - 115
Pyrene	50.00	61.96	124	50 - 130
2,4,6-Trichlorophenol	50.00	47.36	94.7	50 - 115
2,4,5-Trichlorophenol	50.00	48.18	96.4	50 - 110

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
3,3'-Dichlorobenzidine	50.00	46.37	92.7		7.32	30	20 - 110
Acenaphthene	50.00	38.67	77.3		7.91	30	45 - 110
Acenaphthylene	50.00	39.83	79.7		0.463	30	50 - 105
Acetophenone	50.00	37.69	75.4		10.7	30	50 - 110
Anthracene	50.00	46.27	92.5		0.350	30	55 - 110
Atrazine	50.00	54.38	109		1.35	30	70 - 115
Benzaldehyde	50.00	37.64	75.3		9.55	30	10 - 180
Benzidine	50.00	50.0 U	0			30	0 - 200
Benzo(a)anthracene	50.00	47.25	94.5		6.24	30	55 - 110
Benzo(a)pyrene	50.00	43.11	86.2		9.28	30	55 - 110
Benzo(b)fluoranthene	50.00	50.87	102		0.808	30	45 - 120
Benzo(g,h,i)perylene	50.00	45.08	90.2		23.1	30	40 - 125
Benzoic acid	50.00	50.0 U	0			30	0 - 125
Benzo(k)fluoranthene	50.00	48.11	96.2		8.31	30	45 - 125
1,1-Biphenyl	50.00	40.48	81.0		5.50	30	50 - 110
4-Bromophenyl-phenylether	50.00	49.93	99.9		0.904	30	50 - 115
Butylbenzylphthalate	**50.00**	**59.44**	**119**	*	**8.98**	**30**	**45 - 115**
Caprolactam	**50.00**	**8.537**	**17.1**	*	**5.38**	**30**	**20 - 110**
Carbazole	50.00	54.15	108		2.14	30	50 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B11003
Laboratory ID: 1B11003-BSD1
Preparation: EXT_3510
Initial/Final: 1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
4-Chloro-3-methylphenol	50.00	37.80	75.6	20.9	30	45 - 110
4-Chloroaniline	50.00	34.64	69.3	3.89	30	15 - 110
Bis(2-chloroethoxy)methane	50.00	44.25	88.5	6.90	30	45 - 105
Bis(2-chloroethyl)ether	50.00	35.97	71.9	14.4	30	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	37.72	75.4	1.05	30	25 - 130
2-Chloronaphthalene	50.00	34.55	69.1	4.85	30	50 - 105
2-Chlorophenol	50.00	29.04	58.1	16.7	30	35 - 105
4-Chlorophenyl phenyl ether	50.00	46.51	93.0	4.11	30	50 - 110
Chrysene	50.00	49.14	98.3	5.09	30	55 - 110
Dibenz(a,h)anthracene	50.00	49.60	99.2	4.76	30	40 - 125
Dibenzofuran	50.00	41.59	83.2	0.0876	30	55 - 105
Di-n-butylphthalate	50.00	48.65	97.3	1.65	30	55 - 115
2,4-Dichlorophenol	50.00	39.04	78.1	12.2	30	40 - 110
Diethylphthalate	50.00	52.06	104	8.63	30	40 - 120
2,4-Dimethylphenol	50.00	34.24	68.5	11.9	30	30 - 110
Dimethyl phthalate	50.00	46.39	92.8	1.82	30	25 - 125
4,6-Dinitro-2-methylphenol	50.00	58.52	117	2.69	30	40 - 130
2,4-Dinitrophenol	50.00	52.03	104	11.7	30	15 - 140
2,4-Dinitrotoluene	50.00	51.51	103	4.05	30	50 - 120
2,6-Dinitrotoluene	50.00	46.86	93.7	7.35	30	50 - 115
Di-n-octylphthalate	50.00	55.85	112	8.67	30	35 - 135
1,2-Diphenylhydrazine	50.00	44.48	89.0	9.28	30	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	56.51	113	1.40	30	40 - 125
Fluoranthene	50.00	44.27	88.5	6.50	30	55 - 115
Fluorene	50.00	44.76	89.5	5.90	30	50 - 110
Hexachlorobenzene	50.00	50.56	101	0.116	30	50 - 110
Hexachlorobutadiene	50.00	14.03	28.1	36.4 *	30	25 - 105
Hexachlorocyclopentadiene	50.00	13.73	27.5	49.4 *	30	10 - 110
Hexachloroethane	**50.00**	**10.35**	**20.7 ***	**17.3**	**30**	**30 - 95**
Indeno(1,2,3-cd)pyrene	50.00	49.99	100	4.10	30	45 - 125

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B11003
Laboratory ID: 1B11003-BSD1
Preparation: EXT_3510
Initial/Final: 1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Isophorone	50.00	38.12	76.2		2.51	30	50 - 110
1-Methylnaphthalene	50.00	37.20	74.4		4.54	30	30 - 115
2-Methylnaphthalene	50.00	38.15	76.3		15.7	30	45 - 105
2-Methylphenol	50.00	25.61	51.2		16.5	30	40 - 110
3+4-Methylphenol	50.00	20.42	40.8		23.9	30	30 - 110
4-Nitroaniline	**50.00**	**64.27**	**129**	*	**4.58**	**30**	**35 - 120**
3-Nitroaniline	50.00	41.21	82.4		11.4	30	20 - 125
2-Nitroaniline	50.00	40.18	80.4		17.4	30	50 - 115
Nitrobenzene	50.00	38.91	77.8		0.891	30	30 - 110
4-Nitrophenol	50.00	13.69	27.4		7.37	30	0 - 125
2-Nitrophenol	50.00	41.25	82.5		10.8	30	40 - 115
N-Nitrosodiphenylamine	50.00	37.19	74.4		1.31	30	50 - 110
N-Nitroso-di-n-propylamine	50.00	37.13	74.3		12.3	30	35 - 130
Pentachlorophenol	50.00	52.02	104		0.426	30	40 - 115
Phenanthrene	50.00	46.04	92.1		4.17	30	50 - 115
Phenol	50.00	12.49	25.0		12.3	30	0 - 115
Pyrene	50.00	60.93	122		1.68	30	50 - 130
2,4,6-Trichlorophenol	50.00	40.90	81.8		14.6	30	50 - 115
2,4,5-Trichlorophenol	50.00	41.12	82.2		15.8	30	50 - 110

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B11003 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0033	1102063-01	02/11/11 13:15	1,040.00	1.00
Blank	1B11003-BLK1	02/11/11 13:15	1,000.00	1.00
LCS	1B11003-BS1	02/11/11 13:15	1,000.00	1.00
LCS Dup	1B11003-BSD1	02/11/11 13:15	1,000.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	01/26/11
Instrument ID:	MS-BNA1	Injection Time:	15:13
Sequence:	1B03208	Lab Sample ID:	1B03208-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	41.9	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	62.8	PASS
70	Less than 2% of 69	0.345	PASS
127	40 - 60% of 198	44.3	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.89	PASS
275	10 - 30% of 198	16.8	PASS
365	1 - 200% of 198	1.47	PASS
441	0.001 - 100% of 443	70.3	PASS
442	40 - 200% of 198	40.3	PASS
443	17 - 23% of 442	21.7	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	01/28/11
Instrument ID:	MS-BNA1	Injection Time:	09:18
Sequence:	1B03208	Lab Sample ID:	1B03208-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	31.1	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	48.5	PASS
70	Less than 2% of 69	0.314	PASS
127	40 - 60% of 198	40.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.62	PASS
275	10 - 30% of 198	20	PASS
365	1 - 200% of 198	2.17	PASS
441	0.001 - 100% of 443	75.3	PASS
442	40 - 200% of 198	77.2	PASS
443	17 - 23% of 442	19.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	02/15/11
Instrument ID:	MS-BNA1	Injection Time:	10:34
Sequence:	1B04714	Lab Sample ID:	1B04714-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	30.8	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	47.4	PASS
70	Less than 2% of 69	0.242	PASS
127	40 - 60% of 198	40.7	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.71	PASS
275	10 - 30% of 198	19.7	PASS
365	1 - 200% of 198	2.14	PASS
441	0.001 - 100% of 443	72.4	PASS
442	40 - 200% of 198	70.3	PASS
443	17 - 23% of 442	20	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03208	Instrument:	MS-BNA1
Calibration:	1032006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B03208-TUN1	SEQ-TUN1.D	01/26/11 15:13
Cal Standard	1B03208-CAL1	SEQ-CAL1.D	01/26/11 15:40
Cal Standard	1B03208-CAL2	SEQ-CAL2.D	01/26/11 16:08
Cal Standard	1B03208-CAL3	SEQ-CAL3.D	01/26/11 16:37
Cal Standard	1B03208-CAL4	SEQ-CAL4.D	01/26/11 17:05
Cal Standard	1B03208-CAL5	SEQ-CAL5.D	01/26/11 17:34
Cal Standard	1B03208-CAL6	SEQ-CAL6.D	01/26/11 18:03
Cal Standard	1B03208-CAL7	SEQ-CAL7.D	01/26/11 18:31
Cal Standard	1B03208-CAL8	SEQ-CAL8.D	01/26/11 19:00
Cal Standard	1B03208-CAL9	SEQ-CAL9.D	01/26/11 19:29
Cal Standard	1B03208-CALA	SEQ-CALA.D	01/26/11 19:57
Cal Standard	1B03208-CALB	SEQ-CALB.D	01/26/11 20:26
Cal Standard	1B03208-CALC	SEQ-CALC.D	01/26/11 20:54
Cal Standard	1B03208-CALD	SEQ-CALD.D	01/26/11 21:23
Cal Standard	1B03208-CALE	SEQ-CALE.D	01/26/11 21:52
Cal Standard	1B03208-CALF	SEQ-CALF.D	01/26/11 22:20
Cal Standard	1B03208-CALG	SEQ-CALG.D	01/26/11 22:49
Initial Cal Check	1B03208-ICV1	SEQ-ICV1.D	01/26/11 23:17
Initial Cal Check	1B03208-ICV2	SEQ-ICV2.D	01/26/11 23:45
Initial Cal Check	1B03208-ICV3	SEQ-ICV3.D	01/27/11 00:13
MS Tune	1B03208-TUN2	SEQ-TUN1.D	01/28/11 09:18
Initial Cal Check	1B03208-ICV4	SEQ-ICV4.D	01/28/11 10:25

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04714	Instrument:	MS-BNA1
Calibration:	1032006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04714-TUN1	SEQ-TUN1.D	02/15/11 10:34
Calibration Check	1B04714-CCV1	SEQ-CCV1.D	02/15/11 11:00
Blank	1B11003-BLK1	B11003B1.D	02/15/11 18:37
LCS	1B11003-BS1	B11003L1.D	02/15/11 19:06
LCS Dup	1B11003-BSD1	B11003L2.D	02/15/11 19:34
GW0033	1102063-01	0206301.D	02/15/11 20:31

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04714
Instrument: MS-BNA1
Calibration: 1032006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B04714-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 02/15/11 11:00			
1,4-Dichlorobenzene-d4	642207	6.149	488941	6.173	131	50 - 200	-0.0240	+/-0.50	
Naphthalene-d8	2001562	7.64	1584368	7.661	126	50 - 200	-0.0210	+/-0.50	
Acenaphthene-d10	1071764	9.771	740127	9.783	145	50 - 200	-0.0120	+/-0.50	
Phenanthrene-d10	1596702	11.58	1111588	11.597	144	50 - 200	-0.0170	+/-0.50	
Chrysene-d12	1043998	14.819	979203	14.854	107	50 - 200	-0.0350	+/-0.50	
Perylene-d12	771827	16.557	820355	16.6	94	50 - 200	-0.0430	+/-0.50	
Blank (1B11003-BLK1)			Lab File ID: B11003B1.D			Analyzed: 02/15/11 18:37			
1,4-Dichlorobenzene-d4	612716	6.153	642207	6.149	95	50 - 200	0.0040	+/-0.50	
Naphthalene-d8	2020511	7.64	2001562	7.64	101	50 - 200	0.0000	+/-0.50	
Acenaphthene-d10	1042777	9.768	1071764	9.771	97	50 - 200	-0.0030	+/-0.50	
Phenanthrene-d10	1572146	11.578	1596702	11.58	98	50 - 200	-0.0020	+/-0.50	
Chrysene-d12	922261	14.818	1043998	14.819	88	50 - 200	-0.0010	+/-0.50	
Perylene-d12	672287	16.565	771827	16.557	87	50 - 200	0.0080	+/-0.50	
LCS (1B11003-BS1)			Lab File ID: B11003L1.D			Analyzed: 02/15/11 19:06			
1,4-Dichlorobenzene-d4	623148	6.152	642207	6.149	97	50 - 200	0.0030	+/-0.50	
Naphthalene-d8	1961600	7.646	2001562	7.64	98	50 - 200	0.0060	+/-0.50	
Acenaphthene-d10	1072449	9.767	1071764	9.771	100	50 - 200	-0.0040	+/-0.50	
Phenanthrene-d10	1644338	11.582	1596702	11.58	103	50 - 200	0.0020	+/-0.50	
Chrysene-d12	971225	14.823	1043998	14.819	93	50 - 200	0.0040	+/-0.50	
Perylene-d12	754666	16.567	771827	16.557	98	50 - 200	0.0100	+/-0.50	
LCS Dup (1B11003-BSD1)			Lab File ID: B11003L2.D			Analyzed: 02/15/11 19:34			
1,4-Dichlorobenzene-d4	618016	6.155	642207	6.149	96	50 - 200	0.0060	+/-0.50	
Naphthalene-d8	1898451	7.641	2001562	7.64	95	50 - 200	0.0010	+/-0.50	
Acenaphthene-d10	1067609	9.766	1071764	9.771	100	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	1542593	11.581	1596702	11.58	97	50 - 200	0.0010	+/-0.50	
Chrysene-d12	928874	14.822	1043998	14.819	89	50 - 200	0.0030	+/-0.50	
Perylene-d12	732966	16.562	771827	16.557	95	50 - 200	0.0050	+/-0.50	
GW0033 (1102063-01)			Lab File ID: 0206301.D			Analyzed: 02/15/11 20:31			
1,4-Dichlorobenzene-d4	640278	6.151	642207	6.149	100	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	2091255	7.638	2001562	7.64	104	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	1077592	9.766	1071764	9.771	101	50 - 200	-0.0050	+/-0.50	
Phenanthrene-d10	1558771	11.576	1596702	11.58	98	50 - 200	-0.0040	+/-0.50	
Chrysene-d12	851634	14.819	1043998	14.819	82	50 - 200	0.0000	+/-0.50	
Perylene-d12	563650	16.561	771827	16.557	73	50 - 200	0.0040	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3,3'-Dichlorobenzidine												
Acenaphthene	5	1.220878	10	1.118627	20	1.212567	40	1.085046	50	1.043914	60	1.052242
Acenaphthylene	5	1.94982	10	2.146404	20	1.823227	40	1.68579	50	1.661411	60	1.69419
Acetophenone												
Aniline	5	2.02499	10	2.162058	20	1.966631	40	2.001997	50	1.898633	60	1.897488
Anthracene	5	1.184955	10	1.081563	20	1.164455	40	1.091871	50	1.040675	60	0.9601388
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	5	1.162396	10	1.11186	20	1.213411	40	1.172758	50	1.123439	60	1.17446
Benzo(a)pyrene	5	1.028759	10	0.9828043	20	1.100819	40	1.122026	50	1.01213	60	1.049306
Benzo(b)fluoranthene	5	1.077629	10	1.039558	20	1.096949	40	1.152977	50	1.139324	60	1.106174
Benzo(g,h,i)perylene	5	0.8224602	10	0.7987842	20	0.8059861	40	0.7816645	50	0.7444304	60	0.6702291
Benzoic acid	5	0.1331081	10	0.1669506	20	0.2293678	40	0.2308795	50	0.2778284	60	0.2809271
Benzo(k)fluoranthene	5	1.29056	10	1.251448	20	1.316401	40	1.277549	50	1.091518	60	1.245353
Benzyl alcohol	5	0.8918595	10	0.9057471	20	0.8810121	40	0.8683949	50	0.8673854	60	0.8174535
1,1-Biphenyl												
4-Bromophenyl-phenylether	5	0.231972	10	0.2409782	20	0.260483	40	0.2108992	50	0.239031	60	0.2319426
Butylbenzylphthalate	5	0.7540163	10	0.7862457	20	0.8246928	40	0.8176434	50	0.7199546	60	0.8287041
Caprolactam												
Carbazole	5	1.128219	10	1.02969	20	1.000536	40	0.8835432	50	0.8901069	60	0.8548234
4-Chloro-3-methylphenol	5	0.310694	10	0.2887984	20	0.2948105	40	0.2876101	50	0.2892545	60	0.2792311
4-Chloroaniline	5	0.4857113	10	0.4592316	20	0.4857785	40	0.4309516	50	0.4412442	60	0.4082374
Bis(2-chloroethoxy)methane	5	0.5100818	10	0.4912081	20	0.5153237	40	0.445233	50	0.4453259	60	0.4436365
Bis(2-chloroethyl)ether	5	1.442472	10	1.590034	20	1.374359	40	1.269574	50	1.300273	60	1.297892
2,2'-Oxybis-1-chloropropane	5	2.184818	10	2.306427	20	2.189966	40	2.011674	50	1.717134	60	1.712654
2-Chloronaphthalene	5	1.247416	10	1.208501	20	1.26931	40	1.16149	50	1.088393	60	1.064578
2-Chlorophenol	5	1.438581	10	1.288788	20	1.365938	40	1.295661	50	1.283665	60	1.204709
4-Chlorophenyl phenyl ether	5	0.5713084	10	0.574376	20	0.5688825	40	0.5386735	50	0.5253523	60	0.5281174
Chrysene	5	1.181379	10	1.170608	20	1.189425	40	1.176048	50	1.091368	60	1.142452
Dibenz(a,h)anthracene	5	0.7898291	10	0.7836814	20	0.7617359	40	0.8067768	50	0.7553903	60	0.6819198

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Dibenzofuran	5	1.576125	10	1.695587	20	1.726036	40	1.527336	50	1.475582	60	1.426709
Di-n-butylphthalate	5	1.469552	10	1.493537	20	1.485016	40	1.459402	50	1.385354	60	1.243875
1,4-Dichlorobenzene	5	1.565822	10	1.580467	20	1.482342	40	1.374248	50	1.327094	60	1.312307
1,3-Dichlorobenzene	5	1.564366	10	1.550635	20	1.466796	40	1.395741	50	1.410471	60	1.324776
1,2-Dichlorobenzene	5	1.485698	10	1.514043	20	1.430022	40	1.33701	50	1.283084	60	1.19311
2,6-Dichlorophenol												
2,4-Dichlorophenol	5	0.318596	10	0.3480627	20	0.326904	40	0.2954511	50	0.3200354	60	0.319605
Diethylphthalate	5	1.660709	10	1.577697	20	1.524236	40	1.261	50	1.233003	60	1.223311
2,4-Dimethylphenol	5	0.3868736	10	0.3553646	20	0.3612512	40	0.3462765	50	0.3329041	60	0.3471536
Dimethyl phthalate	5	1.371102	10	1.473182	20	1.50951	40	1.243328	50	1.313868	60	1.251818
4,6-Dinitro-2-methylphenol	5	5.478294E-02	10	6.840982E-02	20	0.1071133	40	0.1333907	50	0.1503998	60	0.1421705
2,4-Dinitrophenol	5	~~5.062163E-02~~	10	6.237037E-02	20	0.1011521	40	0.1317647	50	0.1515695	60	0.1605612
2,4-Dinitrotoluene	5	0.3090174	10	0.3793169	20	0.4185296	40	0.3974313	50	0.3875191	60	0.3787391
2,6-Dinitrotoluene	5	0.3183163	10	0.3493131	20	0.3754144	40	0.3444299	50	0.3554451	60	0.3624102
Di-n-octylphthalate	5	1.6316	10	1.635798	20	1.910787	40	1.92312	50	1.690144	60	1.92358
1,4-Dioxane												
1,2-Diphenylhydrazine	5	0.9580609	10	1.008812	20	0.8802152	40	0.8420501	50	0.8308116	60	0.7998217
Bis(2-ethylhexyl)phthalate	5	0.9781605	10	1.042781	20	1.141739	40	1.073501	50	1.024078	60	1.086512
Fluoranthene	5	1.174554	10	1.119604	20	1.158582	40	1.010021	50	1.108267	60	1.002067
Fluorene	5	1.293421	10	1.21811	20	1.266726	40	1.122978	50	1.117687	60	1.11628
2-Fluorobiphenyl	5	1.345385	10	1.322831	20	1.520308	40	1.324401	50	1.225178	60	1.232052
2-Fluorophenol	10	1.351626	20	1.413124	40	1.336365	80	1.187975	100	1.20463	120	1.147633
Hexachlorobenzene	5	0.2665323	10	0.2655703	20	0.2697611	40	0.2648784	50	0.2590678	60	0.2544472
Hexachlorobutadiene	5	0.2026878	10	0.1856802	20	0.1853857	40	0.1781549	50	0.170282	60	0.1647461
Hexachlorocyclopentadiene	5	0.2904279	10	0.3291612	20	0.3651913	40	0.3514916	50	0.367711	60	0.3489062
Hexachloroethane	5	0.6518942	10	0.6308284	20	0.5940863	40	0.5416978	50	0.5772956	60	0.5438372
Indeno(1,2,3-cd)pyrene	5	0.9892853	10	0.9494004	20	0.9327697	40	0.9464554	50	0.9040208	60	0.8189074
Isophorone	5	0.8217078	10	0.8399116	20	0.7783914	40	0.749957	50	0.7902478	60	0.746112
1-Methylnaphthalene	5	0.5974456	10	0.5823433	20	0.5405367	40	0.4803757	50	0.4934924	60	0.4820733
2-Methylnaphthalene	5	0.5430144	10	0.5513543	20	0.5312456	40	0.4988653	50	0.4906804	60	0.4548918
2-Methylphenol	5	1.286482	10	1.250346	20	1.247537	40	1.126521	50	1.096435	60	1.008644

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3+4-Methylphenol	5	1.253529	10	1.307357	20	1.301847	40	1.200152	50	1.183712	60	1.087107
Naphthalene	5	1.116486	10	1.119735	20	1.067584	40	0.9710557	50	0.9156539	60	0.8994825
4-Nitroaniline	5	0.2224683	10	0.2128799	20	0.1693595	40	0.2175572	50	0.2554806	60	0.2397759
3-Nitroaniline	5	0.3255846	10	0.3423936	20	0.370489	40	0.3366752	50	0.3401997	60	0.3519287
2-Nitroaniline	5	0.2654652	10	0.3352421	20	0.3339656	40	0.3505404	50	0.3128571	60	0.3442502
Nitrobenzene	5	0.3891568	10	0.4016634	20	0.3673868	40	0.3628202	50	0.3639734	60	0.3552985
Nitrobenzene-d5	5	0.3956987	10	0.3972185	20	0.3663041	40	0.3665365	50	0.3848744	60	0.3536817
4-Nitrophenol	5	0.1497267	10	0.1860405	20	0.2060501	40	0.1954678	50	0.2163265	60	0.210757
2-Nitrophenol	5	0.2103668	10	0.2175712	20	0.2231657	40	0.2457888	50	0.2287002	60	0.2342643
N-Nitrosodimethylamine	5	0.4875362	10	0.5489131	20	0.5766275	40	0.6186587	50	0.5975275	60	0.5849924
N-Nitrosodiphenylamine	5	0.692447	10	0.7515103	20	0.7118897	40	0.6351698	50	0.6608435	60	0.6252076
N-Nitroso-di-n-propylamine	5	0.9311666	10	0.9269374	20	0.9262252	40	0.819147	50	0.8173453	60	0.7504894
Pentachlorophenol	5	0.1241727	10	0.1201355	20	0.1663006	40	0.1612227	50	0.1801354	60	0.1769821
Phenanthrene	5	1.200445	10	1.166657	20	1.130055	40	1.056359	50	1.059757	60	0.986977
Phenol	5	1.751446	10	1.879768	20	1.637272	40	1.637659	50	1.575537	60	1.559301
Phenol-d6	10	1.647681	20	1.763422	40	1.626008	80	1.603414	100	1.524433	120	1.494738
Pyrene	5	1.419325	10	1.399579	20	1.383023	40	1.359213	50	1.24653	60	1.29918
Pyridine	5	1.537536	10	1.635782	20	1.541409	40	1.602552	50	1.575985	60	1.509723
Terphenyl-d14	5	0.7926602	10	0.8057548	20	0.8474803	40	0.8784666	50	0.8111087	60	0.848248
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	5	0.2994616	10	0.3272414	20	0.3682806	40	0.3554998	50	0.3512989	60	0.3437278
2,4,6-Tribromophenol	10	0.1431756	20	0.1442165	40	0.1561332	80	0.1413181	100	0.1487108	120	0.1437723
1,2,4-Trichlorobenzene	5	0.3682245	10	0.3577617	20	0.3747519	40	0.3449513	50	0.3420562	60	0.3493295
2,4,6-Trichlorophenol	5	0.3758167	10	0.3963889	20	0.4193174	40	0.4066011	50	0.3828678	60	0.38452
2,4,5-Trichlorophenol	5	0.4069373	10	0.4358068	20	0.4686353	40	0.4421245	50	0.4433099	60	0.420189

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3,3'-Dichlorobenzidine					5	0.345776	10	0.3735446	20	0.3383405	40	0.4092793
Acenaphthene	80	1.018418	100	0.9095531								
Acenaphthylene	80	1.475834	100	1.517921								
Acetophenone					5	1.718495	10	1.63753	20	1.524418	40	1.571136
Aniline	80	1.838443	100	1.811652								
Anthracene	80	0.986327	100	0.9420685								
Atrazine					5	0.1907566	10	0.1974337	20	0.2066576	40	0.208239
Benzaldehyde					5	1.141413	10	1.160982	20	1.025443	40	1.064124
Benzidine					5	0.4873597	10	0.5759976	20	0.629192	40	0.6726627
Benzo(a)anthracene	80	1.085961	100	1.065421								
Benzo(a)pyrene	80	1.049837	100	1.00649								
Benzo(b)fluoranthene	80	1.072877	100	1.114459								
Benzo(g,h,i)perylene	80	0.781589	100	0.6663042								
Benzoic acid	80	0.2779468	100	0.2820542								
Benzo(k)fluoranthene	80	1.178262	100	1.066763								
Benzyl alcohol	80	0.7987832	100	0.7636324								
1,1-Biphenyl					5	1.660318	10	1.616332	20	1.415179	40	1.433678
4-Bromophenyl-phenylether	80	0.2214796	100	0.2055715								
Butylbenzylphthalate	80	0.732991	100	0.6918112								
Caprolactam					5	0.119707	10	0.1253949	20	0.1145069	40	0.1360062
Carbazole	80	0.7878224	100	0.7760328								
4-Chloro-3-methylphenol	80	0.2602546	100	0.2512146								
4-Chloroaniline	80	0.4006734	100	0.4141308								
Bis(2-chloroethoxy)methane	80	0.4141729	100	0.4082329								
Bis(2-chloroethyl)ether	80	1.290856	100	1.209098								
2,2'-Oxybis-1-chloropropane	80	1.555193	100	1.808949								
2-Chloronaphthalene	80	1.019875	100	1.06234								
2-Chlorophenol	80	1.275381	100	1.260114								
4-Chlorophenyl phenyl ether	80	0.5055696	100	0.4550214								
Chrysene	80	1.03431	100	0.996392								
Dibenz(a,h)anthracene	80	0.8216482	100	0.7302443								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Dibenzofuran	80	1.272312	100	1.282609								
Di-n-butylphthalate	80	1.25377	100	1.212919								
1,4-Dichlorobenzene	80	1.202188	100	1.192058								
1,3-Dichlorobenzene	80	1.268259	100	1.304134								
1,2-Dichlorobenzene	80	1.152838	100	1.120647								
2,6-Dichlorophenol					5	0.3378312	10	0.327105	20	0.2967903	40	0.2951475
2,4-Dichlorophenol	80	0.3094633	100	0.3044136								
Diethylphthalate	80	1.164583	100	1.135723								
2,4-Dimethylphenol	80	0.310377	100	0.2939744								
Dimethyl phthalate	80	1.246383	100	1.163514								
4,6-Dinitro-2-methylphenol	80	0.141276	100	0.1458094								
2,4-Dinitrophenol	80	0.1730286	100	0.1784883								
2,4-Dinitrotoluene	80	0.3429866	100	0.3779481								
2,6-Dinitrotoluene	80	0.3355308	100	0.3457358								
Di-n-octylphthalate	80	1.727296	100	1.901108								
1,4-Dioxane					5	0.7076939	10	0.7115041	20	0.6327187	40	0.6201284
1,2-Diphenylhydrazine	80	0.7293861	100	0.6287272								
Bis(2-ethylhexyl)phthalate	80	0.9241547	100	0.9297745								
Fluoranthene	80	1.007233	100	1.002433								
Fluorene	80	1.079617	100	0.961522								
2-Fluorobiphenyl	80	1.237633	100	1.19141								
2-Fluorophenol	160	1.052205	200	1.104915								
Hexachlorobenzene	80	0.2593156	100	0.2389274								
Hexachlorobutadiene	80	0.1585373	100	0.1651874								
Hexachlorocyclopentadiene	80	0.3745824	100	0.3733203								
Hexachloroethane	80	0.5195182	100	0.5209373								
Indeno(1,2,3-cd)pyrene	80	0.9751703	100	0.8667418								
Isophorone	80	0.7366049	100	0.7091168								
1-Methylnaphthalene	80	0.4428706	100	0.4445212								
2-Methylnaphthalene	80	0.4483581	100	0.4288413								
2-Methylphenol	80	1.011912	100	1.054777								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3+4-Methylphenol	80	1.08938	100	1.065014								
Naphthalene	80	0.803674	100	0.8087121								
4-Nitroaniline	80	0.265351	100	0.2644746								
3-Nitroaniline	80	0.3683457	100	0.3506128								
2-Nitroaniline	80	0.3309131	100	0.3278767								
Nitrobenzene	80	0.316403	100	0.3115827								
Nitrobenzene-d5	80	0.3468868	100	0.3422753								
4-Nitrophenol	80	0.2207467	100	0.1969781								
2-Nitrophenol	80	0.2149201	100	0.2181142								
N-Nitrosodimethylamine	80	0.5484751	100	0.6183085								
N-Nitrosodiphenylamine	80	0.6238943	100	0.5782682								
N-Nitroso-di-n-propylamine	80	0.7585171	100	0.743702								
Pentachlorophenol	80	0.1807552	100	0.1820394								
Phenanthrene	80	0.9344506	100	0.9248322								
Phenol	80	1.423146	100	1.454171								
Phenol-d6	160	1.34971	200	1.445646								
Pyrene	80	1.21817	100	1.066224								
Pyridine	80	1.577055	100	1.61602								
Terphenyl-d14	80	0.7819749	100	0.7308348								
1,2,4,5-Tetrachlorobenzene					5	0.3041409	10	0.2738675	20	0.2545837	40	0.3138555
2,3,4,6-Tetrachlorophenol	80	0.317592	100	0.3289565								
2,4,6-Tribromophenol	160	0.1452231	200	0.1366756								
1,2,4-Trichlorobenzene	80	0.3106524	100	0.3076826								
2,4,6-Trichlorophenol	80	0.4245115	100	0.4173965								
2,4,5-Trichlorophenol	80	0.429527	100	0.4083834								

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3,3'-Dichlorobenzidine	50	0.4022903	60	0.4065189	80	0.4043308	100	0.3922965				
Acenaphthene												
Acenaphthylene												
Acetophenone	50	1.546064	60	1.573002	80	1.455533	100	1.415772				
Aniline												
Anthracene												
Atrazine	50	0.2045953	60	0.2127531	80	0.205928	100	0.2134976				
Benzaldehyde	50	0.9565525	60	0.9552402	80	0.9441259	100	0.8525288				
Benzidine	50	0.6711953	60	0.6374861	80	0.6973172	100	0.6804112				
Benzo(a)anthracene												
Benzo(a)pyrene												
Benzo(b)fluoranthene												
Benzo(g,h,i)perylene												
Benzoic acid												
Benzo(k)fluoranthene												
Benzyl alcohol												
1,1-Biphenyl	50	1.271071	60	1.516557	80	1.359401	100	1.268587				
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	50	0.1337222	60	0.1317621	80	0.1321053	100	0.1188764				
Carbazole												
4-Chloro-3-methylphenol												
4-Chloroaniline												
Bis(2-chloroethoxy)methane												
Bis(2-chloroethyl)ether												
2,2'-Oxybis-1-chloropropane												
2-Chloronaphthalene												
2-Chlorophenol												
4-Chlorophenyl phenyl ether												
Chrysene												
Dibenz(a,h)anthracene												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Dibenzofuran												
Di-n-butylphthalate												
1,4-Dichlorobenzene												
1,3-Dichlorobenzene												
1,2-Dichlorobenzene												
2,6-Dichlorophenol	50	0.3247614	60	0.3152692	80	0.3067876	100	0.3061151				
2,4-Dichlorophenol												
Diethylphthalate												
2,4-Dimethylphenol												
Dimethyl phthalate												
4,6-Dinitro-2-methylphenol												
2,4-Dinitrophenol												
2,4-Dinitrotoluene												
2,6-Dinitrotoluene												
Di-n-octylphthalate												
1,4-Dioxane	50	0.572512	60	0.6466837	80	0.6451679	100	0.6224177				
1,2-Diphenylhydrazine												
Bis(2-ethylhexyl)phthalate												
Fluoranthene												
Fluorene												
2-Fluorobiphenyl												
2-Fluorophenol												
Hexachlorobenzene												
Hexachlorobutadiene												
Hexachlorocyclopentadiene												
Hexachloroethane												
Indeno(1,2,3-cd)pyrene												
Isophorone												
1-Methylnaphthalene												
2-Methylnaphthalene												
2-Methylphenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3+4-Methylphenol												
Naphthalene												
4-Nitroaniline												
3-Nitroaniline												
2-Nitroaniline												
Nitrobenzene												
Nitrobenzene-d5												
4-Nitrophenol												
2-Nitrophenol												
N-Nitrosodimethylamine												
N-Nitrosodiphenylamine												
N-Nitroso-di-n-propylamine												
Pentachlorophenol												
Phenanthrene												
Phenol												
Phenol-d6												
Pyrene												
Pyridine												
Terphenyl-d14												
1,2,4,5-Tetrachlorobenzene	50	0.3096277	60	0.285836	80	0.2829317	100	0.2756055				
2,3,4,6-Tetrachlorophenol												
2,4,6-Tribromophenol												
1,2,4-Trichlorobenzene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3,3'-Dichlorobenzidine	0.3840471	7.376638	14.80975	2.744989E-02			15	
Acenaphthene	1.082656	9.483861	9.821625	5.657461E-02			CCC (30)	
Acenaphthylene	1.744325	12.75083	9.605125	6.858755E-02			15	
Acetophenone	1.555244	6.168212	6.634375	7.218448E-02			15	
Aniline	1.950237	5.831973	5.807375	0.1033171			15	
Anthracene	1.056507	8.585155	11.68625	5.730172E-02			15	
Atrazine	0.2049826	3.718523	11.27987	9.895935E-02			15	
Benzaldehyde	1.012551	10.43666	5.684375	9.183361E-02			15	
Benzidine	0.6314527	11.01948	13.25575	3.711405E-02			15	
Benzo(a)anthracene	1.138713	4.414255	14.83125	3.720446E-02			15	
Benzo(a)pyrene	1.044021	4.547513	16.52988	3.873379E-02			CCC (30)	
Benzo(b)fluoranthene	1.099993	3.348838	16.14687	3.650013E-02			15	
Benzo(g,h,i)perylene	0.758931	7.956935	18.3315	6.411751E-02			15	
Benzoic acid	0.2348828	24.43774	7.4215	0.7447993	0.9967614		0.995	
Benzo(k)fluoranthene	1.214732	7.667493	16.18175	5.256876E-02			15	
Benzyl alcohol	0.8492835	5.904117	6.339625	0.134646			15	
1,1-Biphenyl	1.44264	10.16426	9.0865	7.580724E-02			15	
4-Bromophenyl-phenylether	0.2302946	7.64967	11.058	3.698206E-02			15	
Butylbenzylphthalate	0.7695074	6.808174	14.17538	0.0181131			15	
Caprolactam	0.1265101	6.344437	8.16975	0.2428858			15	
Carbazole	0.9188467	13.42596	11.88687	4.735667E-02			15	
4-Chloro-3-methylphenol	0.2827335	6.739682	8.335875	5.589678E-02			CCC (30)	
4-Chloroaniline	0.4407449	7.602189	7.752375	5.839612E-02			15	
Bis(2-chloroethoxy)methane	0.4591519	9.024322	7.3845	9.015245E-02			15	
Bis(2-chloroethyl)ether	1.34682	8.949026	5.887375	0.1010167			15	
2,2'-Oxybis-1-chloropropane	1.935852	14.19111	6.495	7.787477E-02			15	
2-Chloronaphthalene	1.140238	8.268771	9.102	5.514584E-02			15	
2-Chlorophenol	1.301605	5.44966	5.93325	0.0640218			15	
4-Chlorophenyl phenyl ether	0.5334126	7.569953	10.46213	3.392237E-02			15	
Chrysene	1.122748	6.577449	14.87787	4.224206E-02			15	
Dibenz(a,h)anthracene	0.7664032	5.859635	17.97362	4.666747E-02			15	
Dibenzofuran	1.497787	11.31125	10.03125	6.286963E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1032006	Instrument:	MS-BNA1
Matrix:	Water	Calibration Date:	1/26/2011 3:40:11PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Di-n-butylphthalate	1.375428	8.7109	12.34463	0.0340847			15	
1,4-Dichlorobenzene	1.379566	10.94327	6.191375	6.203767E-02			CCC (30)	
1,3-Dichlorobenzene	1.410647	7.838891	6.106	5.463781E-02			15	
1,2-Dichlorobenzene	1.314556	11.58735	6.360125	4.155267E-02			15	
2,6-Dichlorophenol	0.3137259	4.852462	7.75425	4.420223E-02			15	
2,4-Dichlorophenol	0.3178164	4.983195	7.490125	8.883757E-02			CCC (30)	
Diethylphthalate	1.347533	15.27682	10.34412	9.254366E-02	0.9972915		0.995	
2,4-Dimethylphenol	0.3417719	8.563737	7.26575	0.1065429			15	
Dimethyl phthalate	1.321588	9.153659	9.484625	0.1434108			15	
4,6-Dinitro-2-methylphenol	0.1179191	31.66593	10.527	0.1204279	0.9973104		0.995	
2,4-Dinitrophenol	0.1369907	30.78159	9.873571	9.653076E-02	0.9960785		SPCC (0.05)	
2,4-Dinitrotoluene	0.373936	9.021128	10.03375	9.903814E-02			15	
2,6-Dinitrotoluene	0.3483244	4.936864	9.545375	0.1119241			15	
Di-n-octylphthalate	1.792929	7.459237	15.71263	0.024866			CCC (30)	
1,4-Dioxane	0.6448533	7.152144	3.019375	0.1113753			15	
1,2-Diphenylhydrazine	0.8347356	14.48987	10.65375	4.850528E-02			15	
Bis(2-ethylhexyl)phthalate	1.025088	7.512426	14.90587	0.0193314			15	
Fluoranthene	1.072845	6.98906	13.07425	4.253064E-02			CCC (30)	
Fluorene	1.147043	9.444569	10.45175	5.284617E-02			15	
2-Fluorobiphenyl	1.2999	8.100212	8.967125	3.987571E-02			15	
2-Fluorophenol	1.224809	10.50463	4.742625	0.1316694			15	
Hexachlorobenzene	0.2598125	3.761925	11.1185	4.707497E-02			15	
Hexachlorobutadiene	0.1763327	8.243307	7.8355	4.165048E-02			CCC (30)	
Hexachlorocyclopentadiene	0.350099	8.135736	8.706625	3.605388E-02			SPCC (0.05)	
Hexachloroethane	0.5725119	8.716146	6.7485	3.321397E-02			15	
Indeno(1,2,3-cd)pyrene	0.9228439	6.186788	17.94762	5.505283E-02			15	
Isophorone	0.7715062	5.758819	7.1245	0.1880514			15	
1-Methylnaphthalene	0.5079573	11.64757	8.633	4.208229E-02			15	
2-Methylnaphthalene	0.4934064	9.372333	8.513125	5.344917E-02			15	
2-Methylphenol	1.135332	9.877222	6.461875	0.1007337			15	
3+4-Methylphenol	1.186012	8.228414	6.647625	0.1700502			15	
Naphthalene	0.9627979	13.28902	7.679625	6.733623E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Date: 1/26/2011 3:40:11PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
4-Nitroaniline	0.2309184	14.04035	10.48912	0.1289535			15	
3-Nitroaniline	0.3482787	4.427347	9.746125	0.1226337			15	
2-Nitroaniline	0.3251388	8.173008	9.237625	6.849578E-02			15	
Nitrobenzene	0.3585356	8.765722	6.833875	0.1095103			15	
Nitrobenzene-d5	0.3691845	5.802246	6.809875	9.945623E-02			15	
4-Nitrophenol	0.1977617	11.40524	9.955125	0.1174457			SPCC (0.05)	
2-Nitrophenol	0.2241114	5.190145	7.205375	6.189121E-02			CCC (30)	
N-Nitrosodimethylamine	0.5726299	7.635147	3.346125	0.1829083			15	
N-Nitrosodiphenylamine	0.6599038	8.482011	10.61075	6.517892E-02			CCC (30)	
N-Nitroso-di-n-propylamine	0.8341912	9.917143	6.653625	0.1894353			SPCC (0.05)	
Pentachlorophenol	0.1614679	15.71491	11.36463	3.521819E-02	0.9986717		CCC (30)	
Phenanthrene	1.057442	9.810503	11.62413	4.673016E-02			15	
Phenol	1.614787	9.276235	5.7815	0.2208323			CCC (30)	
Phenol-d6	1.556882	8.341379	5.768125	0.2252886			15	
Pyrene	1.298906	9.144153	13.35137	4.721813E-02			15	
Pyridine	1.574508	2.729928	3.381875	0.3664935			15	
Terphenyl-d14	0.812066	5.680172	13.56038	3.188842E-02			15	
1,2,4,5-Tetrachlorobenzene	0.2875561	7.072892	8.715	4.094783E-02			15	
2,3,4,6-Tetrachlorophenol	0.3365073	6.658431	10.18512	5.841319E-02			15	
2,4,6-Tribromophenol	0.1449031	3.921225	10.74725	8.448053E-02			15	
1,2,4-Trichlorobenzene	0.3444263	7.098695	7.588375	0.0361532			15	
2,4,6-Trichlorophenol	0.4009275	4.66083	8.857625	4.361742E-02			CCC (30)	
2,4,5-Trichlorophenol	0.4318641	4.727981	8.89625	5.449523E-02			15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/26/11
Lab Sample ID:	1B03208-ICV1	Injection Time:	23:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	48.86	1.082656	1.057895		-2.3	20
Acenaphthylene	A	50.00	53.91	1.744325	1.88061		7.8	20
Anthracene	A	50.00	54.49	1.056507	1.151439		9.0	20
Benzo(a)anthracene	A	50.00	48.79	1.138713	1.111173		-2.4	20
Benzo(a)pyrene	A	50.00	51.01	1.044021	1.065141		2.0	20
Benzo(b)fluoranthene	A	50.00	53.46	1.099993	1.176117		6.9	20
Benzo(g,h,i)perylene	A	50.00	48.22	0.758931	0.7319486		-3.6	20
Benzoic acid	L	50.00	49.49	0.2348828	0.2661538		-1.0	20
Benzo(k)fluoranthene	A	50.00	51.57	1.214732	1.252919		3.1	20
4-Bromophenyl-phenylether	A	50.00	50.34	0.2302946	0.2318677		0.7	20
Butylbenzylphthalate	A	50.00	48.50	0.7695074	0.7463976		-3.0	20
Carbazole	A	50.00	49.83	0.9188467	0.9156435		-0.3	20
4-Chloro-3-methylphenol	A	50.00	48.88	0.2827335	0.2763814		-2.2	20
4-Chloroaniline	A	50.00	48.88	0.4407449	0.4308957		-2.2	20
Bis(2-chloroethoxy)methane	A	50.00	48.87	0.4591519	0.4488008		-2.3	20
Bis(2-chloroethyl)ether	A	50.00	51.95	1.34682	1.39927		3.9	20
2,2'-Oxybis-1-chloropropane	A	50.00	52.78	1.935852	2.04349		5.6	20
2-Chloronaphthalene	A	50.00	54.43	1.140238	1.241253		8.9	20
2-Chlorophenol	A	50.00	55.87	1.301605	1.45441		11.7	20
4-Chlorophenyl phenyl ether	A	50.00	53.91	0.5334126	0.5751643		7.8	20
Chrysene	A	50.00	49.81	1.122748	1.118473		-0.4	20
Dibenz(a,h)anthracene	A	50.00	51.54	0.7664032	0.7899782		3.1	20
Dibenzofuran	A	50.00	53.13	1.497787	1.591559		6.3	20
Di-n-butylphthalate	A	50.00	53.06	1.375428	1.459543		6.1	20
2,4-Dichlorophenol	A	50.00	50.78	0.3178164	0.3228019		1.6	20
2,4-Dimethylphenol	A	50.00	53.12	0.3417719	0.363117		6.2	20
Dimethyl phthalate	A	50.00	46.62	1.321588	1.232204		-6.8	20
4,6-Dinitro-2-methylphenol	L	50.00	57.23	0.1179191	0.1614366		14.5	20
2,4-Dinitrotoluene	A	50.00	56.52	0.373936	0.4227034		13.0	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/26/11
Lab Sample ID:	1B03208-ICV1	Injection Time:	23:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,6-Dinitrotoluene	A	50.00	56.02	0.3483244	0.3902734		12.0	20
Di-n-octylphthalate	A	50.00	54.25	1.792929	1.945241		8.5	20
1,2-Diphenylhydrazine	A	50.00	55.94	0.8347356	0.9339785		11.9	20
Bis(2-ethylhexyl)phthalate	A	50.00	48.68	1.025088	0.9980238		-2.6	20
Fluoranthene	A	50.00	53.77	1.072845	1.153832		7.5	20
Fluorene	A	50.00	54.89	1.147043	1.25925		9.8	20
Hexachlorobenzene	A	50.00	52.99	0.2598125	0.2753324		6.0	20
Hexachlorobutadiene	A	50.00	50.82	0.1763327	0.1792089		1.6	20
Hexachlorocyclopentadiene	A	50.00	53.52	0.350099	0.3747613	0.05	7.0	20
Hexachloroethane	A	50.00	51.75	0.5725119	0.5925988		3.5	20
Indeno(1,2,3-cd)pyrene	A	50.00	50.45	0.9228439	0.9311681		0.9	20
Isophorone	A	50.00	44.69	0.7715062	0.6895249		-10.6	20
1-Methylnaphthalene	A	50.00	47.14	0.5079573	0.4789479		-5.7	20
2-Methylnaphthalene	A	50.00	47.28	0.4934064	0.4665976		-5.4	20
2-Methylphenol	A	50.00	55.42	1.135332	1.258309		10.8	20
3+4-Methylphenol	A	50.00	48.86	1.186012	1.158893		-2.3	20
3-Nitroaniline	A	50.00	56.90	0.3482787	0.3963161		13.8	20
2-Nitroaniline	A	50.00	53.24	0.3251388	0.3462363		6.5	20
Nitrobenzene	A	50.00	45.58	0.3585356	0.3268608		-8.8	20
4-Nitrophenol	A	50.00	55.39	0.1977617	0.2190963	0.05	10.8	20
2-Nitrophenol	A	50.00	54.79	0.2241114	0.2455745		9.6	20
N-Nitrosodiphenylamine	A	50.00	56.39	0.6599038	0.7442938		12.8	20
N-Nitroso-di-n-propylamine	A	50.00	49.68	0.8341912	0.8288013	0.05	-0.6	20
Phenanthrene	A	50.00	56.16	1.057442	1.187789		12.3	20
Phenol	A	50.00	56.47	1.614787	1.823722		12.9	20
Pyrene	A	50.00	48.44	1.298906	1.258473		-3.1	20
2,4,6-Trichlorophenol	A	50.00	54.97	0.4009275	0.440817		9.9	20
2,4,5-Trichlorophenol	A	50.00	53.87	0.4318641	0.4652694		7.7	20
2-Fluorobiphenyl	A	50.00	56.18	1.2999	1.460568		12.4	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/26/11
Lab Sample ID:	1B03208-ICV1	Injection Time:	23:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2-Fluorophenol	A	100.0	113.8	1.224809	1.394017		13.8	20
Nitrobenzene-d5	A	50.00	51.69	0.3691845	0.3816462		3.4	20
Terphenyl-d14	A	50.00	45.39	0.812066	0.7371136		-9.2	20
2,4,6-Tribromophenol	A	100.0	118.8	0.1449031	0.1721949		18.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV2.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/26/11
Lab Sample ID:	1B03208-ICV2	Injection Time:	23:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
3,3'-Dichlorobenzidine	A	50.00	51.60	0.3840471	0.3963298		3.2	20
Acetophenone	A	50.00	51.76	1.555244	1.609954		3.5	20
Atrazine	A	50.00	52.28	0.2049826	0.214327		4.6	20
Benzaldehyde	A	50.00	43.46	1.012551	0.8801513		-13.1	20
Benzidine	A	50.00	50.30	0.6314527	0.6352446		0.6	20
1,1-Biphenyl	A	50.00	55.15	1.44264	1.591358		10.3	20
Caprolactam	A	50.00	55.66	0.1265101	0.1408405		11.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV3.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/27/11
Lab Sample ID:	1B03208-ICV3	Injection Time:	00:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diethylphthalate	L	50.00	48.25	1.347533	1.174754		-3.5	20
2,4-Dinitrophenol	L	50.00	57.52	0.1369907	0.1861539	0.05	15.0	20
Pentachlorophenol	L	50.00	58.37	0.1614679	0.2074009		16.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV4.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/28/11
Lab Sample ID:	1B03208-ICV4	Injection Time:	10:25

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
4-Nitroaniline	A	50.00	42.68	0.2309184	0.1971107		-14.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B04714	Injection Date:	02/15/11
Lab Sample ID:	1B04714-CCV1	Injection Time:	11:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
3,3'-Dichlorobenzidine	A	50.00	49.24	0.3840471	0.3782314		-1.5	20	
Acenaphthene	A	50.00	49.72	1.082656	1.076589		-0.6	20	
Acenaphthylene	A	50.00	53.02	1.744325	1.849695		6.0	20	
Acetophenone	A	50.00	47.68	1.555244	1.48298		-4.6	20	
Anthracene	A	50.00	50.01	1.056507	1.056783		0.03	20	
Atrazine	A	50.00	40.89	0.2049826	0.16762		-18.2	20	
Benzaldehyde	A	50.00	29.60	1.012551	0.5995251		-40.8	20	*
Benzidine	A	50.00	22.77	0.6314527	0.2875714		-54.5	20	*
Benzo(a)anthracene	A	50.00	49.46	1.138713	1.126403		-1.1	20	
Benzo(a)pyrene	A	50.00	50.08	1.044021	1.045722		0.2	20	
Benzo(b)fluoranthene	A	50.00	54.13	1.099993	1.190954		8.3	20	
Benzo(g,h,i)perylene	A	50.00	52.04	0.758931	0.7898879		4.1	20	
Benzoic acid	L	50.00	56.40	0.2348828	0.3069759		12.8	20	
Benzo(k)fluoranthene	A	50.00	51.61	1.214732	1.253844		3.2	20	
1,1-Biphenyl	A	50.00	47.70	1.44264	1.37617		-4.6	20	
4-Bromophenyl-phenylether	A	50.00	48.50	0.2302946	0.2233699		-3.0	20	
Butylbenzylphthalate	A	50.00	50.06	0.7695074	0.7704444		0.1	20	
Caprolactam	A	50.00	50.88	0.1265101	0.1287439		1.8	20	
Carbazole	A	50.00	52.81	0.9188467	0.9704088		5.6	20	
4-Chloro-3-methylphenol	A	50.00	55.13	0.2827335	0.3117197		10.3	20	
4-Chloroaniline	A	50.00	46.95	0.4407449	0.4138776		-6.1	20	
Bis(2-chloroethoxy)methane	A	50.00	51.48	0.4591519	0.472702		3.0	20	
Bis(2-chloroethyl)ether	A	50.00	51.74	1.34682	1.393695		3.5	20	
2,2'-Oxybis-1-chloropropane	A	50.00	42.46	1.935852	1.644027		-15.1	20	
2-Chloronaphthalene	A	50.00	58.84	1.140238	1.341774		17.7	20	
2-Chlorophenol	A	50.00	54.96	1.301605	1.430684		9.9	20	
4-Chlorophenyl phenyl ether	A	50.00	45.13	0.5334126	0.4814075		-9.7	20	
Chrysene	A	50.00	42.69	1.122748	0.9585834		-14.6	20	
Dibenz(a,h)anthracene	A	50.00	55.13	0.7664032	0.8449842		10.3	20	

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B04714	Injection Date:	02/15/11
Lab Sample ID:	1B04714-CCV1	Injection Time:	11:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Dibenzofuran	A	50.00	44.65	1.497787	1.337464		-10.7	20	
Di-n-butylphthalate	A	50.00	53.32	1.375428	1.466819		6.6	20	
2,4-Dichlorophenol	A	50.00	56.36	0.3178164	0.3582686		12.7	20	
Diethylphthalate	L	50.00	57.74	1.347533	1.383416		15.5	20	
2,4-Dimethylphenol	A	50.00	52.96	0.3417719	0.3620293		5.9	20	
Dimethyl phthalate	A	50.00	52.08	1.321588	1.376648		4.2	20	
4,6-Dinitro-2-methylphenol	L	50.00	60.18	0.1179191	0.1704704		20.4	20	*
2,4-Dinitrophenol	L	50.00	62.72	0.1369907	0.2064835	0.05	25.4	20	*
2,4-Dinitrotoluene	A	50.00	51.25	0.373936	0.3832829		2.5	20	
2,6-Dinitrotoluene	A	50.00	52.83	0.3483244	0.3680139		5.7	20	
Di-n-octylphthalate	A	50.00	59.45	1.792929	2.131891		18.9	20	
1,2-Diphenylhydrazine	A	50.00	47.21	0.8347356	0.7882167		-5.6	20	
Bis(2-ethylhexyl)phthalate	A	50.00	40.95	1.025088	0.8396445		-18.1	20	
Fluoranthene	A	50.00	46.63	1.072845	1.000497		-6.7	20	
Fluorene	A	50.00	46.22	1.147043	1.06031		-7.6	20	
Hexachlorobenzene	A	50.00	46.74	0.2598125	0.2428556		-6.5	20	
Hexachlorobutadiene	A	50.00	48.97	0.1763327	0.1727059		-2.1	20	
Hexachlorocyclopentadiene	A	50.00	42.46	0.350099	0.2972804	0.05	-15.1	20	
Hexachloroethane	A	50.00	48.71	0.5725119	0.5577143		-2.6	20	
Indeno(1,2,3-cd)pyrene	A	50.00	55.01	0.9228439	1.015268		10.0	20	
Isophorone	A	50.00	49.27	0.7715062	0.7602834		-1.5	20	
1-Methylnaphthalene	A	50.00	53.46	0.5079573	0.543117		6.9	20	
2-Methylnaphthalene	A	50.00	51.77	0.4934064	0.5108882		3.5	20	
2-Methylphenol	A	50.00	50.54	1.135332	1.14749		1.1	20	
3+4-Methylphenol	A	50.00	44.36	1.186012	1.052297		-11.3	20	
4-Nitroaniline	A	50.00	68.02	0.2309184	0.3141572		36.0	20	*
3-Nitroaniline	A	50.00	53.15	0.3482787	0.3702158		6.3	20	
2-Nitroaniline	A	50.00	59.45	0.3251388	0.3865918		18.9	20	
Nitrobenzene	A	50.00	49.08	0.3585356	0.3519036		-1.8	20	

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B04714	Injection Date:	02/15/11
Lab Sample ID:	1B04714-CCV1	Injection Time:	11:00

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4-Nitrophenol	A	50.00	46.80	0.1977617	0.1851206	0.05	-6.4	20	
2-Nitrophenol	A	50.00	55.22	0.2241114	0.2475087		10.4	20	
N-Nitrosodiphenylamine	A	50.00	45.60	0.6599038	0.6017739		-8.8	20	
N-Nitroso-di-n-propylamine	A	50.00	41.59	0.8341912	0.6938074	0.05	-16.8	20	
Pentachlorophenol	L	50.00	52.96	0.1614679	0.1871803		5.9	20	
Phenanthrene	A	50.00	51.00	1.057442	1.078628		2.0	20	
Phenol	A	50.00	50.46	1.614787	1.629765		0.9	20	
Pyrene	A	50.00	60.18	1.298906	1.563362		20.4	20	*
2,4,6-Trichlorophenol	A	50.00	53.81	0.4009275	0.4315002		7.6	20	
2,4,5-Trichlorophenol	A	50.00	53.46	0.4318641	0.4617106		6.9	20	
2-Fluorobiphenyl	A	50.00	51.24	1.2999	1.332196		2.5	20	
2-Fluorophenol	A	100.0	99.79	1.224809	1.222194		-0.2	20	
Nitrobenzene-d5	A	50.00	48.22	0.3691845	0.3560615		-3.6	20	
Phenol-d6	A	100.0	98.21	1.556882	1.529062		-1.8	20	
Terphenyl-d14	A	50.00	54.66	0.812066	0.8877527		9.3	20	
2,4,6-Tribromophenol	A	100.0	101.5	0.1449031	0.147113		1.5	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B11003-BLK1 File ID: B11003B1.D

Sampled: Prepared: Analyzed: 02/15/11 18:37

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	U
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	Y, U
92-87-5	Benzidine		12.5	25.0	50.0	Y, U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	Q, U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	X, U
51-28-5	2,4-Dinitrophenol		12.5	25.0	50.0	X, U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B11003-BLK1 File ID: B11003B1.D

Sampled: Prepared: Analyzed: 02/15/11 18:37

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	Q, U
77-47-4	Hexachlorocyclopentadiene		1.25	2.50	5.00	Q, U
67-72-1	Hexachloroethane		1.25	2.50	5.00	Q, U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
65794-96-9	3+4-Methylphenol		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	Q, X, U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	X, U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	28.37	56.7	50 - 110	
2-Fluorophenol	100.0	21.03	21.0	20 - 110	
Nitrobenzene-d5	50.00	28.73	57.5	40 - 110	
Phenol-d6	100.0	13.02	13.0	10 - 110	
Terphenyl-d14	50.00	54.42	109	50 - 135	
2,4,6-Tribromophenol	100.0	77.27	77.3	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B11003-BS1 File ID: B11003L1.D

Sampled: Prepared: Analyzed: 02/15/11 19:06

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine	49.89	1.25	2.50	5.00	
83-32-9	Acenaphthene	41.86	1.25	2.50	5.00	
208-96-8	Acenaphthylene	39.65	1.25	2.50	5.00	
98-86-2	Acetophenone	41.94	1.25	2.50	5.00	
120-12-7	Anthracene	46.11	1.25	2.50	5.00	
1912-24-9	Atrazine	53.65	1.25	2.50	5.00	
100-52-7	Benzaldehyde	41.41	1.25	2.50	5.00	Y
92-87-5	Benzidine		12.5	25.0	50.0	Y, U
56-55-3	Benzo(a)anthracene	50.29	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	47.31	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	51.28	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	56.86	1.25	2.50	5.00	
65-85-0	Benzoic acid	12.78	12.5	25.0	50.0	J
207-08-9	Benzo(k)fluoranthene	52.28	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	42.77	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	49.48	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	65.03	1.25	2.50	5.00	
105-60-2	Caprolactam	9.009	1.25	2.50	5.00	
86-74-8	Carbazole	53.00	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	46.61	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	36.01	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	47.41	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	41.57	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	37.33	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	32.91	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	34.33	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	44.64	1.25	2.50	5.00	
218-01-9	Chrysene	51.71	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	52.01	1.25	2.50	5.00	
132-64-9	Dibenzofuran	41.56	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	49.46	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	44.09	1.25	2.50	5.00	
84-66-2	Diethylphthalate	56.75	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	38.59	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	45.56	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	60.11	5.00	10.0	20.0	X
51-28-5	2,4-Dinitrophenol	58.51	12.5	25.0	50.0	X
121-14-2	2,4-Dinitrotoluene	53.64	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	50.43	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	60.91	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B11003-BS1 File ID: B11003L1.D

Sampled: Prepared: Analyzed: 02/15/11 19:06

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	40.54	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	55.73	1.25	2.50	5.00	
206-44-0	Fluoranthene	41.49	1.25	2.50	5.00	
86-73-7	Fluorene	42.20	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	50.62	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	9.705	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	8.290	1.25	2.50	5.00	
67-72-1	Hexachloroethane	8.705	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	52.08	1.25	2.50	5.00	
78-59-1	Isophorone	39.09	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	35.55	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	32.59	1.25	2.50	5.00	
95-48-7	2-Methylphenol	30.21	1.25	2.50	5.00	
65794-96-9	3+4-Methylphenol	25.97	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	67.28	5.00	10.0	20.0	X
99-09-2	3-Nitroaniline	46.20	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	47.85	5.00	10.0	20.0	
98-95-3	Nitrobenzene	38.57	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	14.74	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	45.96	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	36.70	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	41.98	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	51.80	5.00	10.0	20.0	
85-01-8	Phenanthrene	48.00	1.25	2.50	5.00	
108-95-2	Phenol	14.13	1.25	2.50	5.00	
129-00-0	Pyrene	61.96	1.25	2.50	5.00	X
88-06-2	2,4,6-Trichlorophenol	47.36	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	48.18	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	40.62	81.2	50 - 110	
2-Fluorophenol	100.0	37.69	37.7	20 - 110	
Nitrobenzene-d5	50.00	40.90	81.8	40 - 110	
Phenol-d6	100.0	23.04	23.0	10 - 110	
Terphenyl-d14	50.00	52.43	105	50 - 135	
2,4,6-Tribromophenol	100.0	98.01	98.0	40 - 125	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B11003-BSD1 File ID: B11003L2.D

Sampled: Prepared: Analyzed: 02/15/11 19:34

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine	46.37	1.25	2.50	5.00	
83-32-9	Acenaphthene	38.67	1.25	2.50	5.00	
208-96-8	Acenaphthylene	39.83	1.25	2.50	5.00	
98-86-2	Acetophenone	37.69	1.25	2.50	5.00	
120-12-7	Anthracene	46.27	1.25	2.50	5.00	
1912-24-9	Atrazine	54.38	1.25	2.50	5.00	
100-52-7	Benzaldehyde	37.64	1.25	2.50	5.00	Y
92-87-5	Benzidine		12.5	25.0	50.0	Y, U
56-55-3	Benzo(a)anthracene	47.25	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	43.11	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	50.87	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	45.08	1.25	2.50	5.00	
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene	48.11	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	40.48	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	49.93	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	59.44	1.25	2.50	5.00	
105-60-2	Caprolactam	8.537	1.25	2.50	5.00	
86-74-8	Carbazole	54.15	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	37.80	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	34.64	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	44.25	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	35.97	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	37.72	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	34.55	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	29.04	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	46.51	1.25	2.50	5.00	
218-01-9	Chrysene	49.14	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	49.60	1.25	2.50	5.00	
132-64-9	Dibenzofuran	41.59	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	48.65	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	39.04	1.25	2.50	5.00	
84-66-2	Diethylphthalate	52.06	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	34.24	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	46.39	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	58.52	5.00	10.0	20.0	X
51-28-5	2,4-Dinitrophenol	52.03	12.5	25.0	50.0	X
121-14-2	2,4-Dinitrotoluene	51.51	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	46.86	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	55.85	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B11003-BSD1 File ID: B11003L2.D

Sampled: Prepared: Analyzed: 02/15/11 19:34

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B11003 Sequence: 1B04714 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	44.48	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	56.51	1.25	2.50	5.00	
206-44-0	Fluoranthene	44.27	1.25	2.50	5.00	
86-73-7	Fluorene	44.76	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	50.56	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	14.03	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	13.73	1.25	2.50	5.00	
67-72-1	Hexachloroethane	10.35	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	49.99	1.25	2.50	5.00	
78-59-1	Isophorone	38.12	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	37.20	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	38.15	1.25	2.50	5.00	
95-48-7	2-Methylphenol	25.61	1.25	2.50	5.00	
65794-96-9	3+4-Methylphenol	20.42	1.25	2.50	5.00	
100-01-6	4-Nitroaniline	64.27	5.00	10.0	20.0	X
99-09-2	3-Nitroaniline	41.21	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	40.18	5.00	10.0	20.0	
98-95-3	Nitrobenzene	38.91	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	13.69	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	41.25	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	37.19	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	37.13	1.25	2.50	5.00	
87-86-5	Pentachlorophenol	52.02	5.00	10.0	20.0	
85-01-8	Phenanthrene	46.04	1.25	2.50	5.00	
108-95-2	Phenol	12.49	1.25	2.50	5.00	
129-00-0	Pyrene	60.93	1.25	2.50	5.00	X
88-06-2	2,4,6-Trichlorophenol	40.90	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	41.12	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	38.39	76.8	50 - 110	
2-Fluorophenol	100.0	28.45	28.5	20 - 110	
Nitrobenzene-d5	50.00	40.22	80.4	40 - 110	
Phenol-d6	100.0	19.87	19.9	10 - 110	
Terphenyl-d14	50.00	54.96	110	50 - 135	
2,4,6-Tribromophenol	100.0	90.45	90.5	40 - 125	

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0033	02/04/11 12:55	02/08/11 08:45	02/11/11 13:15	7.01	7.00	02/15/11 20:31	4.30	40.00	

Data for MODSW8015B (GRO) Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1A02805	Instrument:	GL-GCVOA2
Calibration:	1028002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1A02805-CAL1	003F0301.D	01/27/11 18:33
Cal Standard	1A02805-CAL2	004F0401.D	01/27/11 19:08
Cal Standard	1A02805-CAL3	005F0501.D	01/27/11 19:44
Cal Standard	1A02805-CAL4	006F0601.D	01/27/11 20:20
Cal Standard	1A02805-CAL5	007F0701.D	01/27/11 20:55
Cal Standard	1A02805-CAL6	008F0801.D	01/27/11 21:31
Initial Cal Check	1A02805-ICV1	009F0901.D	01/27/11 22:07

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04207
Instrument: GL-GCVOA2
Calibration: 1028002

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04207-CCV1	003F0301.D	02/10/11 16:17
Calibration Check	1B04207-CCV2	014F1401.D	02/10/11 22:36
Blank	1B10008-BLK1	015F1501.D	02/10/11 23:10
LCS	1B10008-BS1	016F1601.D	02/10/11 23:44
LCS Dup	1B10008-BSD1	017F1701.D	02/11/11 00:18
GW0014	1102062-01	018F1801.D	02/11/11 00:53
GW0028	1102062-03	019F1901.D	02/11/11 01:27
GW0029	1102062-06	020F2001.D	02/11/11 02:01
GW0033	1102063-01	021F2101.D	02/11/11 02:35
GW0025	1102076-01	022F2201.D	02/11/11 03:08
GW0027	1102076-03	023F2301.D	02/11/11 03:42
GW8001-RB	1102076-06	024F2401.D	02/11/11 04:16
Calibration Check	1B04207-CCV3	025F2501.D	02/11/11 04:50

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04616	Instrument:	GL-GCVOA2
Calibration:	1028002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04616-CCV1	003F0301.D	02/14/11 17:05
Blank	1B14007-BLK1	004F0401.D	02/14/11 17:41
LCS	1B14007-BS1	005F0501.D	02/14/11 18:16
LCS Dup	1B14007-BSD1	006F0601.D	02/14/11 18:50
GW0023	1102088-01	007F0701.D	02/14/11 19:25
GW0026	1102088-03	008F0801.D	02/14/11 20:00
GW0026	1B14007-MS1	009F0901.D	02/14/11 20:34
GW0026	1B14007-MSD1	010F1001.D	02/14/11 21:08
GW0024	1102097-01	011F1101.D	02/14/11 21:42
GW0030	1102097-02	012F1201.D	02/14/11 22:17
Calibration Check	1B04616-CCV2	016F1601.D	02/15/11 00:38

ANALYSIS DATA SHEET

GW0014

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-01	File ID:	018F1801.D
Sampled:	02/07/11 11:15	Prepared:	02/10/11 14:47	Analyzed:	02/11/11 00:53
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B10008	Sequence:	1B04207	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500		0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05432	109	50 - 150	

ANALYSIS DATA SHEET

GW0028

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-03	File ID:	019F1901.D
Sampled:	02/07/11 15:16	Prepared:	02/10/11 14:47	Analyzed:	02/11/11 01:27
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B10008	Sequence:	1B04207	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500		0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05491	110	50 - 150	

ANALYSIS DATA SHEET

GW0029

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-06	File ID:	020F2001.D
Sampled:	02/07/11 15:16	Prepared:	02/10/11 14:47	Analyzed:	02/11/11 02:01
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B10008	Sequence:	1B04207	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500		0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05473	109	50 - 150	

ANALYSIS DATA SHEET

GW0033

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102063-01	File ID:	021F2101.D
Sampled:	02/04/11 12:55	Prepared:	02/10/11 14:47	Analyzed:	02/11/11 02:35
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B10008	Sequence:	1B04207	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500		0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05616	112	50 - 150	

ANALYSIS DATA SHEET

GW0025

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-01	File ID:	022F2201.D
Sampled:	02/08/11 12:04	Prepared:	02/10/11 14:47	Analyzed:	02/11/11 03:08
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B10008	Sequence:	1B04207	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500		0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05366	107	50 - 150	

ANALYSIS DATA SHEET

GW0027

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-03	File ID:	023F2301.D
Sampled:	02/08/11 16:08	Prepared:	02/10/11 14:47	Analyzed:	02/11/11 03:42
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B10008	Sequence:	1B04207	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500		0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05517	110	50 - 150	

ANALYSIS DATA SHEET

GW8001-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-06	File ID:	024F2401.D
Sampled:	02/08/11 08:45	Prepared:	02/10/11 14:47	Analyzed:	02/11/11 04:16
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B10008	Sequence:	1B04207	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500		0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05433	109	50 - 150	

ANALYSIS DATA SHEET

GW0023

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-01	File ID:	007F0701.D
Sampled:	02/10/11 14:48	Prepared:	02/14/11 09:56	Analyzed:	02/14/11 19:25
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B14007	Sequence:	1B04616	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.333	0.0500		0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05530	111	50 - 150	

ANALYSIS DATA SHEET

GW0026

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-03	File ID:	008F0801.D
Sampled:	02/10/11 10:35	Prepared:	02/14/11 09:56	Analyzed:	02/14/11 20:00
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B14007	Sequence:	1B04616	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.0976	0.0500		0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05225	104	50 - 150	

ANALYSIS DATA SHEET

GW0024

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-01	File ID:	011F1101.D
Sampled:	02/09/11 11:48	Prepared:	02/14/11 09:56	Analyzed:	02/14/11 21:42
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B14007	Sequence:	1B04616	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.149	0.0500		0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05357	107	50 - 150	

ANALYSIS DATA SHEET

GW0030

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-02	File ID:	012F1201.D
Sampled:	02/09/11 14:52	Prepared:	02/14/11 09:56	Analyzed:	02/14/11 22:17
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B14007	Sequence:	1B04616	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.0768	0.0500		0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05363	107	50 - 150	

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B10008	Laboratory ID:	1B10008-BS1
Preparation:	8015GRO	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5940	119	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5912	118	0.483	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B14007	Laboratory ID:	1B14007-BS1
Preparation:	8015GRO	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5769	115	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.6044	121	4.65	50	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B14007

% Solids:

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.09756	0.6390	108		50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.6672	114	4.32		50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B10008 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0014	1102062-01	02/10/11 14:47	5.00	5.00
GW0028	1102062-03	02/10/11 14:47	5.00	5.00
GW0029	1102062-06	02/10/11 14:47	5.00	5.00
GW0033	1102063-01	02/10/11 14:47	5.00	5.00
GW0025	1102076-01	02/10/11 14:47	5.00	5.00
GW0027	1102076-03	02/10/11 14:47	5.00	5.00
GW8001-RB	1102076-06	02/10/11 14:47	5.00	5.00
Blank	1B10008-BLK1	02/10/11 14:47	5.00	5.00
LCS	1B10008-BS1	02/10/11 14:47	5.00	5.00
LCS Dup	1B10008-BSD1	02/10/11 14:47	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B14007 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0023	1102088-01	02/14/11 09:56	5.00	5.00
GW0026	1102088-03	02/14/11 09:56	5.00	5.00
GW0024	1102097-01	02/14/11 09:56	5.00	5.00
GW0030	1102097-02	02/14/11 09:56	5.00	5.00
Blank	1B14007-BLK1	02/14/11 09:56	5.00	5.00
LCS	1B14007-BS1	02/14/11 09:56	5.00	5.00
LCS Dup	1B14007-BSD1	02/14/11 09:56	5.00	5.00
GW0026	1B14007-MS1	02/14/11 09:56	5.00	5.00
GW0026	1B14007-MSD1	02/14/11 09:56	5.00	5.00

INITIAL CALIBRATION STANDARDS

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1A02805	Instrument:	GL-GCVOA2
Calibration:	1028002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11A0780	GRO Cal 0.1ppm	1A02805-CAL1	003F0301.D	01/27/11 18:33
11A0781	GRO Cal 0.2ppm	1A02805-CAL2	004F0401.D	01/27/11 19:08
11A0783	GRO Cal 0.5ppm	1A02805-CAL3	005F0501.D	01/27/11 19:44
11A0789	GRO Cal 1.0ppm	1A02805-CAL4	006F0601.D	01/27/11 20:20
11A0790	GRO Cal 2.0ppm	1A02805-CAL5	007F0701.D	01/27/11 20:55
11A0791	GRO Cal 5.0ppm	1A02805-CAL6	008F0801.D	01/27/11 21:31

INITIAL CALIBRATION DATA

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1028002	Instrument:	GL-GCVOA2
Matrix:	Water	Calibration Date:	1/27/2011 6:33:04PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Gasoline Range Organics (C6-C10	5	2516042	2	2730054	1	2493619	0.5	2526354	0.2	3408960	0.1	3753180
Bromofluorobenzene	0.5	1483418	0.2	1700855	0.1	1733590	0.05	1558880	0.02	1723950	0.01	1745400

INITIAL CALIBRATION DATA (Continued)

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1028002	Instrument:	GL-GCVOA2
Matrix:	Water	Calibration Date:	1/27/2011 6:33:04PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Gasoline Range Organics (C6-C10)	2904701	18.65348	7.287	1.259059E-02			20	
Bromofluorobenzene	1657682	6.599566	19.57967	2.614775E-02			20	

INITIAL CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	009F0901.D	Calibration Date:	01/27/11 18:33
Sequence:	1A02805	Injection Date:	01/27/11
Lab Sample ID:	1A02805-ICV1	Injection Time:	22:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5128	2904701	2979066		2.6	20
Bromofluorobenzene	A	0.05000	0.05836	1657682	1934860		16.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	003F0301.D	Calibration Date:	01/27/11 18:33
Sequence:	1B04207	Injection Date:	02/10/11
Lab Sample ID:	1B04207-CCV1	Injection Time:	16:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5583	2904701	3243456		11.7	20
Bromofluorobenzene	A	0.05000	0.05544	1657682	1837920		10.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	014F1401.D	Calibration Date:	01/27/11 18:33
Sequence:	1B04207	Injection Date:	02/10/11
Lab Sample ID:	1B04207-CCV2	Injection Time:	22:36

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5546	2904701	3221890		10.9	20
Bromofluorobenzene	A	0.05000	0.05689	1657682	1886120		13.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	025F2501.D	Calibration Date:	01/27/11 18:33
Sequence:	1B04207	Injection Date:	02/11/11
Lab Sample ID:	1B04207-CCV3	Injection Time:	04:50

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5524	2904701	3208958		10.5	20
Bromofluorobenzene	A	0.05000	0.05620	1657682	1863160		12.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	003F0301.D	Calibration Date:	01/27/11 18:33
Sequence:	1B04616	Injection Date:	02/14/11
Lab Sample ID:	1B04616-CCV1	Injection Time:	17:05

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5372	2904701	3121004		7.4	20
Bromofluorobenzene	A	0.05000	0.05703	1657682	1890700		14.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	016F1601.D	Calibration Date:	01/27/11 18:33
Sequence:	1B04616	Injection Date:	02/15/11
Lab Sample ID:	1B04616-CCV2	Injection Time:	00:38

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5882	2904701	3417174		17.6	20
Bromofluorobenzene	A	0.05000	0.05643	1657682	1871000		12.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04207
Instrument: GL-GCVOA2
Calibration: 1028002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04207-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 02/10/11 16:17		
Bromofluorobenzene	0.05000	111	80 - 120	19.556	19.556	0.0000	+/-0.210	
Calibration Check (1B04207-CCV2) ug/mL				Lab File ID: 014F1401.D		Analyzed: 02/10/11 22:36		
Bromofluorobenzene	0.05000	114	80 - 120	19.57	19.556	0.0140	+/-0.210	
Blank (1B10008-BLK1) mg/L				Lab File ID: 015F1501.D		Analyzed: 02/10/11 23:10		
Bromofluorobenzene	0.05000	112	50 - 150	19.57	19.556	0.0140	+/-0.210	
LCS (1B10008-BS1) mg/L				Lab File ID: 016F1601.D		Analyzed: 02/10/11 23:44		
Bromofluorobenzene	0.05000	113	50 - 150	19.573	19.556	0.0170	+/-0.210	
LCS Dup (1B10008-BSD1) mg/L				Lab File ID: 017F1701.D		Analyzed: 02/11/11 00:18		
Bromofluorobenzene	0.05000	114	50 - 150	19.573	19.556	0.0170	+/-0.210	
GW0014 (1102062-01) mg/L				Lab File ID: 018F1801.D		Analyzed: 02/11/11 00:53		
Bromofluorobenzene	0.05000	109	50 - 150	19.576	19.556	0.0200	+/-0.210	
GW0028 (1102062-03) mg/L				Lab File ID: 019F1901.D		Analyzed: 02/11/11 01:27		
Bromofluorobenzene	0.05000	110	50 - 150	19.576	19.556	0.0200	+/-0.210	
GW0029 (1102062-06) mg/L				Lab File ID: 020F2001.D		Analyzed: 02/11/11 02:01		
Bromofluorobenzene	0.05000	109	50 - 150	19.58	19.556	0.0240	+/-0.210	
GW0033 (1102063-01) mg/L				Lab File ID: 021F2101.D		Analyzed: 02/11/11 02:35		
Bromofluorobenzene	0.05000	112	50 - 150	19.58	19.556	0.0240	+/-0.210	
GW0025 (1102076-01) mg/L				Lab File ID: 022F2201.D		Analyzed: 02/11/11 03:08		
Bromofluorobenzene	0.05000	107	50 - 150	19.583	19.556	0.0270	+/-0.210	
GW0027 (1102076-03) mg/L				Lab File ID: 023F2301.D		Analyzed: 02/11/11 03:42		
Bromofluorobenzene	0.05000	110	50 - 150	19.583	19.556	0.0270	+/-0.210	
GW8001-RB (1102076-06) mg/L				Lab File ID: 024F2401.D		Analyzed: 02/11/11 04:16		
Bromofluorobenzene	0.05000	109	50 - 150	19.583	19.556	0.0270	+/-0.210	
Calibration Check (1B04207-CCV3) ug/mL				Lab File ID: 025F2501.D		Analyzed: 02/11/11 04:50		
Bromofluorobenzene	0.05000	112	80 - 120	19.58	19.556	0.0240	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04616
Instrument: GL-GCVOA2
Calibration: 1028002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04616-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 02/14/11 17:05		
Bromofluorobenzene	0.05000	114	80 - 120	19.55	19.55	0.0000	+/-0.210	
Blank (1B14007-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 02/14/11 17:41		
Bromofluorobenzene	0.05000	109	50 - 150	19.553	19.55	0.0030	+/-0.210	
LCS (1B14007-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 02/14/11 18:16		
Bromofluorobenzene	0.05000	112	50 - 150	19.556	19.55	0.0060	+/-0.210	
LCS Dup (1B14007-BSD1) mg/L				Lab File ID: 006F0601.D		Analyzed: 02/14/11 18:50		
Bromofluorobenzene	0.05000	113	50 - 150	19.56	19.55	0.0100	+/-0.210	
GW0023 (1102088-01) mg/L				Lab File ID: 007F0701.D		Analyzed: 02/14/11 19:25		
Bromofluorobenzene	0.05000	111	50 - 150	19.563	19.55	0.0130	+/-0.210	
GW0026 (1102088-03) mg/L				Lab File ID: 008F0801.D		Analyzed: 02/14/11 20:00		
Bromofluorobenzene	0.05000	104	50 - 150	19.57	19.55	0.0200	+/-0.210	
Matrix Spike (1B14007-MS1) mg/L				Lab File ID: 009F0901.D		Analyzed: 02/14/11 20:34		
Bromofluorobenzene	0.05000	108	50 - 150	19.573	19.55	0.0230	+/-0.210	
Matrix Spike Dup (1B14007-MSD1) mg/L				Lab File ID: 010F1001.D		Analyzed: 02/14/11 21:08		
Bromofluorobenzene	0.05000	109	50 - 150	19.576	19.55	0.0260	+/-0.210	
GW0024 (1102097-01) mg/L				Lab File ID: 011F1101.D		Analyzed: 02/14/11 21:42		
Bromofluorobenzene	0.05000	107	50 - 150	19.58	19.55	0.0300	+/-0.210	
GW0030 (1102097-02) mg/L				Lab File ID: 012F1201.D		Analyzed: 02/14/11 22:17		
Bromofluorobenzene	0.05000	107	50 - 150	19.573	19.55	0.0230	+/-0.210	
Calibration Check (1B04616-CCV2) ug/mL				Lab File ID: 016F1601.D		Analyzed: 02/15/11 00:38		
Bromofluorobenzene	0.05000	113	80 - 120	19.553	19.55	0.0030	+/-0.210	

HOLDING TIME SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0014	02/07/11 11:15	02/08/11 08:45	02/10/11 14:47	N/A	14.00	02/11/11 00:53	3.57	14.00	
GW0028	02/07/11 15:16	02/08/11 08:45	02/10/11 14:47	N/A	14.00	02/11/11 01:27	3.42	14.00	
GW0029	02/07/11 15:16	02/08/11 08:45	02/10/11 14:47	N/A	14.00	02/11/11 02:01	3.45	14.00	
GW0033	02/04/11 12:55	02/08/11 08:45	02/10/11 14:47	N/A	14.00	02/11/11 02:35	6.57	14.00	
GW0025	02/08/11 12:04	02/09/11 08:45	02/10/11 14:47	N/A	14.00	02/11/11 03:08	2.63	14.00	
GW0027	02/08/11 16:08	02/09/11 08:45	02/10/11 14:47	N/A	14.00	02/11/11 03:42	2.48	14.00	
GW8001-RB	02/08/11 08:45	02/09/11 08:45	02/10/11 14:47	N/A	14.00	02/11/11 04:16	2.81	14.00	
GW0023	02/10/11 14:48	02/11/11 08:45	02/14/11 09:56	N/A	14.00	02/14/11 19:25	4.19	14.00	
GW0026	02/10/11 10:35	02/11/11 08:45	02/14/11 09:56	N/A	14.00	02/14/11 20:00	4.39	14.00	
GW0024	02/09/11 11:48	02/10/11 11:45	02/14/11 09:56	N/A	14.00	02/14/11 21:42	5.37	14.00	
GW0030	02/09/11 14:52	02/10/11 11:45	02/14/11 09:56	N/A	14.00	02/14/11 22:17	5.27	14.00	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B10008-BLK1 File ID: 015F1501.D

Sampled: Prepared: Analyzed: 02/10/11 23:10

Solids: Preparation: 8015GRO Dilution:

Batch: 1B10008 Sequence: 1B04207 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05603	112	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B10008-BS1
File ID: 016F1601.D
Sampled:
Prepared:
Analyzed: 02/10/11 23:44
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1B10008
Sequence: 1B04207
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5940	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05657	113	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B10008-BSD1
File ID: 017F1701.D
Sampled:
Prepared:
Analyzed: 02/11/11 00:18
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1B10008
Sequence: 1B04207
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5912	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05703	114	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B14007-BLK1 File ID: 004F0401.D

Sampled: Prepared: Analyzed: 02/14/11 17:41

Solids: Preparation: 8015GRO Dilution:

Batch: 1B14007 Sequence: 1B04616 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05451	109	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B14007-BS1
File ID: 005F0501.D
Sampled:
Prepared:
Analyzed: 02/14/11 18:16
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1B14007
Sequence: 1B04616
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5769	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05600	112	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B14007-BSD1
File ID: 006F0601.D
Sampled:
Prepared:
Analyzed: 02/14/11 18:50
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1B14007
Sequence: 1B04616
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.6044	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05635	113	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B14007-MS1 File ID: 009F0901.D

Sampled: Prepared: Analyzed: 02/14/11 20:34

Solids: Preparation: 8015GRO Dilution:

Batch: 1B14007 Sequence: 1B04616 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.6390	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05421	108	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B14007-MSD1 File ID: 010F1001.D

Sampled: Prepared: Analyzed: 02/14/11 21:08

Solids: Preparation: 8015GRO Dilution:

Batch: 1B14007 Sequence: 1B04616 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.6672	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05450	109	50 - 150	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Instrument: GL-GCVOA2

Analyte	MDL	MRL	Units	Method
Gasoline Range Organics (C6-C10)	0.0500	0.150	mg/L	SW8015B

Data for MODSW8015B (DRO) Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03804	Instrument:	GL-GCFID
Calibration:	1038002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B03804-CAL6	003B0301.D	02/04/11 11:28
Cal Standard	1B03804-CAL5	004B0401.D	02/04/11 12:02
Cal Standard	1B03804-CAL4	005B0501.D	02/04/11 12:35
Cal Standard	1B03804-CAL3	006B0601.D	02/04/11 13:09
Cal Standard	1B03804-CAL2	007B0701.D	02/04/11 13:42
Cal Standard	1B03804-CAL1	008B0801.D	02/04/11 14:16
Initial Cal Check	1B03804-ICV1	009B0901.D	02/04/11 14:50

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04611	Instrument:	GL-GCFID
Calibration:	1038002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04611-CCV1	015B1601.D	02/14/11 23:03
Blank	1B11010-BLK1	016B1701.D	02/14/11 23:37
LCS	1B11010-BS1	017B1801.D	02/15/11 00:11
LCS Dup	1B11010-BSD1	018B1901.D	02/15/11 00:45
GW0014	1102062-01	019B2001.D	02/15/11 01:18
GW0028	1102062-03	020B2101.D	02/15/11 01:52
GW0029	1102062-06	021B2201.D	02/15/11 02:26
GW0033	1102063-01	022B2301.D	02/15/11 03:00
GW0025	1102076-01	023B2401.D	02/15/11 03:33
GW0027	1102076-03	024B2501.D	02/15/11 04:07
GW8001-RB	1102076-06	025B2601.D	02/15/11 04:41
Calibration Check	1B04611-CCV2	026B2701.D	02/15/11 05:14

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04715	Instrument:	GL-GCFID
Calibration:	1038002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04715-CCV1	003B0301.D	02/15/11 17:09
Blank	1B12006-BLK1	004B0401.D	02/15/11 17:42
LCS	1B12006-BS1	005B0501.D	02/15/11 18:16
GW0023	1102088-01	006B0601.D	02/15/11 18:49
GW0026	1102088-03	007B0701.D	02/15/11 19:23
GW0026	1B12006-MS1	008B0801.D	02/15/11 19:56
GW0026	1B12006-MSD1	009B0901.D	02/15/11 20:30
GW0024	1102097-01	010B1001.D	02/15/11 21:03
GW0030	1102097-02	011B1101.D	02/15/11 21:37
Calibration Check	1B04715-CCV2	013B1301.D	02/15/11 22:44

ANALYSIS DATA SHEET

GW0014

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-01	File ID:	019B2001.D
Sampled:	02/07/11 11:15	Prepared:	02/11/11 13:02	Analyzed:	02/15/11 01:18
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B11010	Sequence:	1B04611	Calibration:	1038002
Instrument:	GL-GCFID				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0935	0.0935	0.0935	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01869	0.01066	57.0	30 - 140	

ANALYSIS DATA SHEET

GW0028

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-03	File ID:	020B2101.D
Sampled:	02/07/11 15:16	Prepared:	02/11/11 13:02	Analyzed:	02/15/11 01:52
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B11010	Sequence:	1B04611	Calibration:	1038002
Instrument:	GL-GCFID				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.0943	0.0943	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01152	61.0	30 - 140	

ANALYSIS DATA SHEET

GW0029

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-06	File ID:	021B2201.D
Sampled:	02/07/11 15:16	Prepared:	02/11/11 13:02	Analyzed:	02/15/11 02:26
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B11010	Sequence:	1B04611	Calibration:	1038002
Instrument:	GL-GCFID				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.0943	0.0943	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01047	55.5	30 - 140	

ANALYSIS DATA SHEET

GW0033

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102063-01	File ID:	022B2301.D
Sampled:	02/04/11 12:55	Prepared:	02/11/11 13:02	Analyzed:	02/15/11 03:00
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B11010	Sequence:	1B04611	Calibration:	1038002
Instrument:	GL-GCFID				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0962	0.0962	0.0962	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01289	67.0	30 - 140	

ANALYSIS DATA SHEET

GW0025

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-01	File ID:	023B2401.D
Sampled:	02/08/11 12:04	Prepared:	02/11/11 13:02	Analyzed:	02/15/11 03:33
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B11010	Sequence:	1B04611	Calibration:	1038002
Instrument:	GL-GCFID				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0962	0.0962	0.0962	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01190	61.9	30 - 140	

ANALYSIS DATA SHEET

GW0027

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-03	File ID:	024B2501.D
Sampled:	02/08/11 16:08	Prepared:	02/11/11 13:02	Analyzed:	02/15/11 04:07
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B11010	Sequence:	1B04611	Calibration:	1038002
Instrument:	GL-GCFID				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.0943	0.0943	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01175	62.3	30 - 140	

ANALYSIS DATA SHEET

GW8001-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-06	File ID:	025B2601.D
Sampled:	02/08/11 08:45	Prepared:	02/11/11 13:02	Analyzed:	02/15/11 04:41
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B11010	Sequence:	1B04611	Calibration:	1038002
Instrument:	GL-GCFID				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0935	0.0935	0.0935	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01869	0.01351	72.3	30 - 140	

ANALYSIS DATA SHEET

GW0023

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-01	File ID:	006B0601.D
Sampled:	02/10/11 14:48	Prepared:	02/14/11 16:33	Analyzed:	02/15/11 18:49
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B12006	Sequence:	1B04715	Calibration:	1038002
Instrument:	GL-GCFID				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.260	0.0943	0.0943	0.0943	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01629	86.4	30 - 140	

ANALYSIS DATA SHEET

GW0026

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-03	File ID:	007B0701.D
Sampled:	02/10/11 10:35	Prepared:	02/14/11 16:33	Analyzed:	02/15/11 19:23
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B12006	Sequence:	1B04715	Calibration:	1038002
Instrument:	GL-GCFID				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0962	0.0962	0.0962	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01458	75.8	30 - 140	

ANALYSIS DATA SHEET

GW0024

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-01	File ID:	010B1001.D
Sampled:	02/09/11 11:48	Prepared:	02/14/11 16:33	Analyzed:	02/15/11 21:03
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B12006	Sequence:	1B04715	Calibration:	1038002
Instrument:	GL-GCFID				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0926	0.0926	0.0926	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01852	0.01394	75.3	30 - 140	

ANALYSIS DATA SHEET

GW0030

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-02	File ID:	011B1101.D
Sampled:	02/09/11 14:52	Prepared:	02/14/11 16:33	Analyzed:	02/15/11 21:37
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B12006	Sequence:	1B04715	Calibration:	1038002
Instrument:	GL-GCFID				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0926	0.0926	0.0926	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01852	0.01516	81.8	30 - 140	

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B11010	Laboratory ID:	1B11010-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.6791	67.9	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.6886	68.9	1.38	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B12006	Laboratory ID:	1B12006-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.8348	83.5	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B12006

% Solids:

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Diesel Range Organics (C10-C28)	0.9615	ND	0.7890	82.1		50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	0.9434	0.7828	83.0	0.792		50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B11010 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0014	1102062-01	02/11/11 13:02	1,070.00	1.00
GW0028	1102062-03	02/11/11 13:02	1,060.00	1.00
GW0029	1102062-06	02/11/11 13:02	1,060.00	1.00
GW0033	1102063-01	02/11/11 13:02	1,040.00	1.00
GW0025	1102076-01	02/11/11 13:02	1,040.00	1.00
GW0027	1102076-03	02/11/11 13:02	1,060.00	1.00
GW8001-RB	1102076-06	02/11/11 13:02	1,070.00	1.00
Blank	1B11010-BLK1	02/11/11 13:02	1,000.00	1.00
LCS	1B11010-BS1	02/11/11 13:02	1,000.00	1.00
LCS Dup	1B11010-BSD1	02/11/11 13:02	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B12006 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0023	1102088-01	02/14/11 16:33	1,060.00	1.00
GW0026	1102088-03	02/14/11 16:33	1,040.00	1.00
GW0024	1102097-01	02/14/11 16:33	1,080.00	1.00
GW0030	1102097-02	02/14/11 16:33	1,080.00	1.00
Blank	1B12006-BLK1	02/12/11 12:24	1,000.00	1.00
LCS	1B12006-BS1	02/12/11 12:24	1,000.00	1.00
GW0026	1B12006-MS1	02/12/11 12:24	1,040.00	1.00
GW0026	1B12006-MSD1	02/12/11 12:24	1,060.00	1.00

INITIAL CALIBRATION STANDARDS

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03804	Instrument:	GL-GCFID
Calibration:	1038002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10K0188	DRO ICAL6@100ppm	1B03804-CAL6	003B0301.D	02/04/11 11:28
10K0189	DRO ICAL5@250ppm	1B03804-CAL5	004B0401.D	02/04/11 12:02
10K0190	DRO ICAL4@500ppm	1B03804-CAL4	005B0501.D	02/04/11 12:35
10K0192	DRO ICAL3@1000ppm	1B03804-CAL3	006B0601.D	02/04/11 13:09
10K0193	DRO ICAL2@2500ppm	1B03804-CAL2	007B0701.D	02/04/11 13:42
10K0194	DRO ICAL1@5000ppm	1B03804-CAL1	008B0801.D	02/04/11 14:16

INITIAL CALIBRATION DATA

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038002	Instrument:	GL-GCFID
Matrix:	Water	Calibration Date:	2/4/2011 11:28:54AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Diesel Range Organics (C10-C28)	100	1351.87	250	1499.38	500	1574.304	1000	1676.537	2500	1883.202	5000	1703.416
o-Terphenyl	5	1984.4	12.5	1928.48	25	1883.4	50	1943.72	125	1932.104	250	1921.648

INITIAL CALIBRATION DATA (Continued)

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038002	Instrument:	GL-GCFID
Matrix:	Water	Calibration Date:	2/4/2011 11:28:54AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	1614.785	11.34472	6.25	0			20	
o-Terphenyl	1932.292	1.695087	11.31367	0.0744468			20	

INITIAL CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	009B0901.D	Calibration Date:	02/04/11 11:28
Sequence:	1B03804	Injection Date:	02/04/11
Lab Sample ID:	1B03804-ICV1	Injection Time:	14:50

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1178	1614.785	1901.657		17.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	015B1601.D	Calibration Date:	02/04/11 11:28
Sequence:	1B04611	Injection Date:	02/14/11
Lab Sample ID:	1B04611-CCV1	Injection Time:	23:03

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1069	1614.785	1726.428		6.9	20
o-Terphenyl	A	50.00	52.96	1932.292	2046.66		5.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	026B2701.D	Calibration Date:	02/04/11 11:28
Sequence:	1B04611	Injection Date:	02/15/11
Lab Sample ID:	1B04611-CCV2	Injection Time:	05:14

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1106	1614.785	1785.871		10.6	20
o-Terphenyl	A	50.00	50.64	1932.292	1957.02		1.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	003B0301.D	Calibration Date:	02/04/11 11:28
Sequence:	1B04715	Injection Date:	02/15/11
Lab Sample ID:	1B04715-CCV1	Injection Time:	17:09

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1051	1614.785	1697.221		5.1	20
o-Terphenyl	A	50.00	47.96	1932.292	1853.68		-4.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	013B1301.D	Calibration Date:	02/04/11 11:28
Sequence:	1B04715	Injection Date:	02/15/11
Lab Sample ID:	1B04715-CCV2	Injection Time:	22:44

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1129	1614.785	1822.53		12.9	20
o-Terphenyl	A	50.00	50.02	1932.292	1933.28		0.05	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04611
Instrument: GL-GCFID
Calibration: 1038002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04611-CCV1) mg/L				Lab File ID: 015B1601.D		Analyzed: 02/14/11 23:03		
o-Terphenyl	50.00	106	80 - 120	11.28	11.28	0.0000	+/-0.050	
Blank (1B11010-BLK1) mg/L				Lab File ID: 016B1701.D		Analyzed: 02/14/11 23:37		
o-Terphenyl	0.02000	67.8	30 - 140	11.273	11.28	-0.0070	+/-0.050	
LCS (1B11010-BS1) mg/L				Lab File ID: 017B1801.D		Analyzed: 02/15/11 00:11		
o-Terphenyl	0.02000	80.2	30 - 140	11.27	11.28	-0.0100	+/-0.050	
LCS Dup (1B11010-BSD1) mg/L				Lab File ID: 018B1901.D		Analyzed: 02/15/11 00:45		
o-Terphenyl	0.02000	79.3	30 - 140	11.29	11.28	0.0100	+/-0.050	
GW0014 (1102062-01) mg/L				Lab File ID: 019B2001.D		Analyzed: 02/15/11 01:18		
o-Terphenyl	0.01869	57.0	30 - 140	11.29	11.28	0.0100	+/-0.050	
GW0028 (1102062-03) mg/L				Lab File ID: 020B2101.D		Analyzed: 02/15/11 01:52		
o-Terphenyl	0.01887	61.0	30 - 140	11.303	11.28	0.0230	+/-0.050	
GW0029 (1102062-06) mg/L				Lab File ID: 021B2201.D		Analyzed: 02/15/11 02:26		
o-Terphenyl	0.01887	55.5	30 - 140	11.293	11.28	0.0130	+/-0.050	
GW0033 (1102063-01) mg/L				Lab File ID: 022B2301.D		Analyzed: 02/15/11 03:00		
o-Terphenyl	0.01923	67.0	30 - 140	11.286	11.28	0.0060	+/-0.050	
GW0025 (1102076-01) mg/L				Lab File ID: 023B2401.D		Analyzed: 02/15/11 03:33		
o-Terphenyl	0.01923	61.9	30 - 140	11.293	11.28	0.0130	+/-0.050	
GW0027 (1102076-03) mg/L				Lab File ID: 024B2501.D		Analyzed: 02/15/11 04:07		
o-Terphenyl	0.01887	62.3	30 - 140	11.276	11.28	-0.0040	+/-0.050	
GW8001-RB (1102076-06) mg/L				Lab File ID: 025B2601.D		Analyzed: 02/15/11 04:41		
o-Terphenyl	0.01869	72.3	30 - 140	11.286	11.28	0.0060	+/-0.050	
Calibration Check (1B04611-CCV2) mg/L				Lab File ID: 026B2701.D		Analyzed: 02/15/11 05:14		
o-Terphenyl	50.00	101	80 - 120	11.29	11.28	0.0100	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04715
Instrument: GL-GCFID
Calibration: 1038002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04715-CCV1) mg/L				Lab File ID: 003B0301.D		Analyzed: 02/15/11 17:09		
o-Terphenyl	50.00	95.9	80 - 120	11.286	11.286	0.0000	+/-0.050	
Blank (1B12006-BLK1) mg/L				Lab File ID: 004B0401.D		Analyzed: 02/15/11 17:42		
o-Terphenyl	0.02000	57.9	30 - 140	11.303	11.286	0.0170	+/-0.050	
LCS (1B12006-BS1) mg/L				Lab File ID: 005B0501.D		Analyzed: 02/15/11 18:16		
o-Terphenyl	0.02000	81.5	30 - 140	11.286	11.286	0.0000	+/-0.050	
GW0023 (1102088-01) mg/L				Lab File ID: 006B0601.D		Analyzed: 02/15/11 18:49		
o-Terphenyl	0.01887	86.4	30 - 140	11.29	11.286	0.0040	+/-0.050	
GW0026 (1102088-03) mg/L				Lab File ID: 007B0701.D		Analyzed: 02/15/11 19:23		
o-Terphenyl	0.01923	75.8	30 - 140	11.283	11.286	-0.0030	+/-0.050	
Matrix Spike (1B12006-MS1) mg/L				Lab File ID: 008B0801.D		Analyzed: 02/15/11 19:56		
o-Terphenyl	0.01923	79.2	30 - 140	11.276	11.286	-0.0100	+/-0.050	
Matrix Spike Dup (1B12006-MSD1) mg/L				Lab File ID: 009B0901.D		Analyzed: 02/15/11 20:30		
o-Terphenyl	0.01887	84.9	30 - 140	11.276	11.286	-0.0100	+/-0.050	
GW0024 (1102097-01) mg/L				Lab File ID: 010B1001.D		Analyzed: 02/15/11 21:03		
o-Terphenyl	0.01852	75.3	30 - 140	11.27	11.286	-0.0160	+/-0.050	
GW0030 (1102097-02) mg/L				Lab File ID: 011B1101.D		Analyzed: 02/15/11 21:37		
o-Terphenyl	0.01852	81.8	30 - 140	11.29	11.286	0.0040	+/-0.050	
Calibration Check (1B04715-CCV2) mg/L				Lab File ID: 013B1301.D		Analyzed: 02/15/11 22:44		
o-Terphenyl	50.00	100	80 - 120	11.28	11.286	-0.0060	+/-0.050	

HOLDING TIME SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0014	02/07/11 11:15	02/08/11 08:45	02/11/11 13:02	4.07	7.00	02/15/11 01:18	3.51	40.00	
GW0028	02/07/11 15:16	02/08/11 08:45	02/11/11 13:02	3.91	7.00	02/15/11 01:52	3.53	40.00	
GW0029	02/07/11 15:16	02/08/11 08:45	02/11/11 13:02	3.91	7.00	02/15/11 02:26	3.56	40.00	
GW0033	02/04/11 12:55	02/08/11 08:45	02/11/11 13:02	7.00	7.00	02/15/11 03:00	3.58	40.00	
GW0025	02/08/11 12:04	02/09/11 08:45	02/11/11 13:02	3.04	7.00	02/15/11 03:33	3.60	40.00	
GW0027	02/08/11 16:08	02/09/11 08:45	02/11/11 13:02	2.87	7.00	02/15/11 04:07	3.63	40.00	
GW8001-RB	02/08/11 08:45	02/09/11 08:45	02/11/11 13:02	3.18	7.00	02/15/11 04:41	3.65	40.00	
GW0023	02/10/11 14:48	02/11/11 08:45	02/14/11 16:33	4.07	7.00	02/15/11 18:49	1.09	40.00	
GW0026	02/10/11 10:35	02/11/11 08:45	02/14/11 16:33	4.25	7.00	02/15/11 19:23	1.12	40.00	
GW0024	02/09/11 11:48	02/10/11 11:45	02/14/11 16:33	5.16	7.00	02/15/11 21:03	1.19	40.00	
GW0030	02/09/11 14:52	02/10/11 11:45	02/14/11 16:33	5.03	7.00	02/15/11 21:37	1.21	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B11010-BLK1 File ID: 016B1701.D

Sampled: Prepared: Analyzed: 02/14/11 23:37

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B11010 Sequence: 1B04611 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.100	0.100	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01355	67.8	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B11010-BS1
File ID: 017B1801.D
Sampled:
Prepared:
Analyzed: 02/15/11 00:11
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1B11010
Sequence: 1B04611
Calibration: 1038002
Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.6791	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01604	80.2	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B11010-BSD1
File ID: 018B1901.D
Sampled:
Prepared:
Analyzed: 02/15/11 00:45
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1B11010
Sequence: 1B04611
Calibration: 1038002
Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.6886	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01586	79.3	30 - 140	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B12006-BLK1 File ID: 004B0401.D

Sampled: Prepared: Analyzed: 02/15/11 17:42

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B12006 Sequence: 1B04715 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.100	0.100	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01157	57.9	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B12006-BS1
File ID: 005B0501.D
Sampled:
Prepared:
Analyzed: 02/15/11 18:16
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1B12006
Sequence: 1B04715
Calibration: 1038002
Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.8348	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01631	81.5	30 - 140	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B12006-MS1 File ID: 008B0801.D

Sampled: Prepared: Analyzed: 02/15/11 19:56

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B12006 Sequence: 1B04715 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.7890	0.0962	0.0962	0.0962	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01522	79.2	30 - 140	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B12006-MSD1 File ID: 009B0901.D

Sampled: Prepared: Analyzed: 02/15/11 20:30

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B12006 Sequence: 1B04715 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.7828	0.0943	0.0943	0.0943	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01601	84.9	30 - 140	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_003

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** GL-GCFID

Analyte	MDL	MRL	Units	Method
Diesel Range Organics (C10-C28)	0.100	0.100	mg/L	SW8015B

Data for SW8011 Forms

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 0L34409
Instrument: GL-ECD2
Calibration: 0344003

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0L34409-CAL1	002R0101.D	12/09/10 14:14
Cal Standard	0L34409-CAL1	002F0101.D	12/09/10 14:14
Cal Standard	0L34409-CAL2	003F0101.D	12/09/10 14:35
Cal Standard	0L34409-CAL2	003R0101.D	12/09/10 14:35
Cal Standard	0L34409-CAL3	004F0101.D	12/09/10 14:56
Cal Standard	0L34409-CAL3	004R0101.D	12/09/10 14:56
Cal Standard	0L34409-CAL4	005R0101.D	12/09/10 15:17
Cal Standard	0L34409-CAL4	005F0101.D	12/09/10 15:17
Cal Standard	0L34409-CAL5	006R0101.D	12/09/10 15:38
Cal Standard	0L34409-CAL5	006F0101.D	12/09/10 15:38
Cal Standard	0L34409-CAL6	007F0101.D	12/09/10 16:00
Cal Standard	0L34409-CAL6	007R0101.D	12/09/10 16:00
Cal Standard	0L34409-CAL7	008F0101.D	12/09/10 16:21
Cal Standard	0L34409-CAL7	008R0101.D	12/09/10 16:21
Cal Standard	0L34409-CAL8	009F0101.D	12/09/10 16:42
Cal Standard	0L34409-CAL8	009R0101.D	12/09/10 16:42
Initial Cal Check	0L34409-ICV1	010R0101.D	12/09/10 17:04
Initial Cal Check	0L34409-ICV1	010F0101.D	12/09/10 17:04

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04508	Instrument:	GL-ECD2
Calibration:	0344003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04508-CCV2	017R0101.D	02/14/11 15:40
Calibration Check	1B04508-CCV2	017F0101.D	02/14/11 15:40
LCS	1B14006-BS1	021R0101.D	02/14/11 17:05
LCS	1B14006-BS1	021F0101.D	02/14/11 17:05
Blank	1B14006-BLK1	022R0101.D	02/14/11 17:26
GW0014	1102062-01	023F0101.D	02/14/11 17:47
GW0028	1102062-03	024R0101.D	02/14/11 18:08
GW0029	1102062-06	025R0101.D	02/14/11 18:29
GW0033	1102063-01	026R0101.D	02/14/11 18:50
GW0025	1102076-01	027R0101.D	02/14/11 19:11
GW0027	1102076-03	028R0101.D	02/14/11 19:33
GW0027	1102076-03	028F0101.D	02/14/11 19:33
GW0023	1102088-01	029R0101.D	02/14/11 19:54
GW0023	1102088-01	029F0101.D	02/14/11 19:54
Calibration Check	1B04508-CCV3	030R0101.D	02/14/11 20:15
Calibration Check	1B04508-CCV3	030F0101.D	02/14/11 20:15
GW0026	1102088-03	031R0101.D	02/14/11 20:37
GW0026	1102088-03	031F0101.D	02/14/11 20:37
GW0026	1B14006-MS1	032F0101.D	02/14/11 20:58
GW0026	1B14006-MS1	032R0101.D	02/14/11 20:58
GW0026	1B14006-MSD1	033R0101.D	02/14/11 21:19
GW0026	1B14006-MSD1	033F0101.D	02/14/11 21:19
GW0024	1102097-01	034F0101.D	02/14/11 21:40
GW0024	1102097-01	034R0101.D	02/14/11 21:40
GW0030	1102097-02	035R0101.D	02/14/11 22:01
Calibration Check	1B04508-CCV4	036R0101.D	02/14/11 22:22
Calibration Check	1B04508-CCV4	036F0101.D	02/14/11 22:22

ANALYSIS DATA SHEET

GW0014

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-01	File ID:	023F0101.D
Sampled:	02/07/11 11:15	Prepared:	02/14/11 09:29	Analyzed:	02/14/11 17:47
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B14006	Sequence:	1B04508	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00979	0.0196	0.0294	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0028

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-03	File ID:	024R0101.D
Sampled:	02/07/11 15:16	Prepared:	02/14/11 09:29	Analyzed:	02/14/11 18:08
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B14006	Sequence:	1B04508	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00997	0.0199	0.0299	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0029

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102062-06	File ID:	025R0101.D
Sampled:	02/07/11 15:16	Prepared:	02/14/11 09:29	Analyzed:	02/14/11 18:29
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B14006	Sequence:	1B04508	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00986	0.0197	0.0296	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0033

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102063-01	File ID:	026R0101.D
Sampled:	02/04/11 12:55	Prepared:	02/14/11 09:29	Analyzed:	02/14/11 18:50
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B14006	Sequence:	1B04508	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.0101	0.0202	0.0303	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0025

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-01	File ID:	027R0101.D
Sampled:	02/08/11 12:04	Prepared:	02/14/11 09:29	Analyzed:	02/14/11 19:11
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B14006	Sequence:	1B04508	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00980	0.0196	0.0294	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0027

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102076-03	File ID:	028R0101.D
Sampled:	02/08/11 16:08	Prepared:	02/14/11 09:29	Analyzed:	02/14/11 19:33
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B14006	Sequence:	1B04508	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.0656	0.00996	0.0199	0.0299	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0023

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102088-01	File ID:	029R0101.D
Sampled:	02/10/11 14:48	Prepared:	02/14/11 09:29	Analyzed:	02/14/11 19:54
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B14006	Sequence:	1B04508	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.160	0.00994	0.0199	0.0298	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0026

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102088-03 File ID: 031F0101.D

Sampled: 02/10/11 10:35 Prepared: 02/14/11 09:29 Analyzed: 02/14/11 20:37

Solids: Preparation: EDB Dilution: 1

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00992	0.0198	0.0297	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0024

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_003
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102097-01	File ID:	034R0101.D
Sampled:	02/09/11 11:48	Prepared:	02/14/11 09:29	Analyzed:	02/14/11 21:40
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B14006	Sequence:	1B04508	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.923	0.00999	0.0200	0.0300	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0030

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102097-02 File ID: 035R0101.D

Sampled: 02/09/11 14:52 Prepared: 02/14/11 09:29 Analyzed: 02/14/11 22:01

Solids: Preparation: EDB Dilution: 1

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00990	0.0198	0.0297	U

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B14006	Laboratory ID:	1B14006-BS1
Preparation:	EDB	Initial/Final:	35 mL / 35 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.4885	97.7	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5406	108	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8011

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B14006

% Solids:

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dibromoethane	0.4948	ND	0.5198	105		70 - 130
1,2-Dibromoethane [2C]	0.4948	0.02884	0.5608	108		70 - 130

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.4928	0.5352	109	2.92		20	70 - 130
1,2-Dibromoethane [2C]	0.4928	0.5937	115	5.70		20	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B14006 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0014	1102062-01	02/14/11 09:29	35.74	35.00
GW0028	1102062-03	02/14/11 09:29	35.11	35.00
GW0029	1102062-06	02/14/11 09:29	35.50	35.00
GW0033	1102063-01	02/14/11 09:29	34.71	35.00
GW0025	1102076-01	02/14/11 09:29	35.71	35.00
GW0027	1102076-03	02/14/11 09:29	35.15	35.00
GW0023	1102088-01	02/14/11 09:29	35.20	35.00
GW0026	1102088-03	02/14/11 09:29	35.30	35.00
GW0024	1102097-01	02/14/11 09:29	35.05	35.00
GW0030	1102097-02	02/14/11 09:29	35.35	35.00
Blank	1B14006-BLK1	02/14/11 09:29	35.00	35.00
LCS	1B14006-BS1	02/14/11 09:29	35.00	35.00
GW0026	1B14006-MS1	02/14/11 09:29	35.37	35.00
GW0026	1B14006-MSD1	02/14/11 09:29	35.51	35.00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B14006-BLK1 File ID: 022R0101.D

Sampled: Prepared: 02/14/11 09:29 Analyzed: 02/14/11 17:26

Solids: Preparation: EDB Dilution:

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.0100	0.0200	0.0300	U

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0L34409	Instrument:	GL-ECD2
Calibration:	0344003		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10L0344	EDB ICAL 1 (0.03ppb)	0L34409-CAL1	002R0101.D	12/09/10 14:14
10L0344	EDB ICAL 1 (0.03ppb)	0L34409-CAL1	002F0101.D	12/09/10 14:14
10L0345	EDB ICAL 2 (0.05ppb)	0L34409-CAL2	003F0101.D	12/09/10 14:35
10L0345	EDB ICAL 2 (0.05ppb)	0L34409-CAL2	003R0101.D	12/09/10 14:35
10L0346	EDB ICAL 3 (0.10ppb)	0L34409-CAL3	004F0101.D	12/09/10 14:56
10L0346	EDB ICAL 3 (0.10ppb)	0L34409-CAL3	004R0101.D	12/09/10 14:56
10L0347	EDB ICAL 4 (0.15ppb)	0L34409-CAL4	005R0101.D	12/09/10 15:17
10L0347	EDB ICAL 4 (0.15ppb)	0L34409-CAL4	005F0101.D	12/09/10 15:17
10L0348	EDB ICAL 5 (0.20ppb)	0L34409-CAL5	006R0101.D	12/09/10 15:38
10L0348	EDB ICAL 5 (0.20ppb)	0L34409-CAL5	006F0101.D	12/09/10 15:38
10L0349	EDB ICAL 6 (0.40ppb)	0L34409-CAL6	007F0101.D	12/09/10 16:00
10L0349	EDB ICAL 6 (0.40ppb)	0L34409-CAL6	007R0101.D	12/09/10 16:00
10L0350	EDB ICAL 7 (0.50ppb)	0L34409-CAL7	008F0101.D	12/09/10 16:21
10L0350	EDB ICAL 7 (0.50ppb)	0L34409-CAL7	008R0101.D	12/09/10 16:21
10L0351	EDB ICAL 8 (1.00ppb)	0L34409-CAL8	009R0101.D	12/09/10 16:42
10L0351	EDB ICAL 8 (1.00ppb)	0L34409-CAL8	009F0101.D	12/09/10 16:42

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 2:14:04PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	1	14540	0.5	15516	0.4	15402.5	0.2	16590	0.15	15980	0.1	~~17600~~
1,2-Dibromoethane [2C]	1	29076	0.5	33560	0.4	33402.5	0.2	38785	0.15	37866.67	0.1	~~42050~~
1,2-Dibromo-3-chloropropane	1	24442	0.5	28986	0.4	28852.5	0.2	31650	0.15	31693.33	0.1	~~45080~~
1,2-Dibromo-3-chloropropane [2C]	1	69695	0.5	78930	0.4	76647.5	0.2	85730	0.15	88033.34	0.1	~~105450~~

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 2:14:04PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	0.05	23100	0.03	21300								
1,2-Dibromoethane [2C]	0.05	45260	0.03	42333.33								
1,2-Dibromo-3-chloropropane	0.05	52760	0.03	51166.67								
1,2-Dibromo-3-chloropropane [2C]	0.05	155180	0.03	148933.3								

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 2:14:04PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	17489.79	18.96825	1.543	1.749237E-02		0.9996372	CCC ()	*
1,2-Dibromoethane [2C]	37183.36	15.05167	0.583	2.248094E-02		0.9995717	CCC ()	*
1,2-Dibromo-3-chloropropane	35650.07	32.01128	6.973	2.748517E-02		0.9987968	CCC ()	*
1,2-Dibromo-3-chloropropane [2C]	100449.9	35.64558	4.139286	5.910871E-02		0.9986728	CCC ()	*

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	010F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	0L34409	Injection Date:	12/09/10
Lab Sample ID:	0L34409-ICV1	Injection Time:	17:04

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4746	17489.79	14620		-5.1	20
1,2-Dibromoethane [2C]	Q	0.5000	0.4584	37183.36	30824		-8.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	017F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B04508	Injection Date:	02/14/11
Lab Sample ID:	1B04508-CCV2	Injection Time:	15:40

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5196	17489.79	15906		3.9	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5423	37183.36	35494		8.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	030F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B04508	Injection Date:	02/14/11
Lab Sample ID:	1B04508-CCV3	Injection Time:	20:15

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4915	17489.79	15104		-1.7	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5296	37183.36	34802		5.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	036F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B04508	Injection Date:	02/14/11
Lab Sample ID:	1B04508-CCV4	Injection Time:	22:22

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4962	17489.79	15238		-0.8	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5430	37183.36	35534		8.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

HOLDING TIME SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0014	02/07/11 11:15	02/08/11 08:45	02/14/11 09:29	6.93	14.00	02/14/11 17:47	0.35	14.00	
GW0028	02/07/11 15:16	02/08/11 08:45	02/14/11 09:29	6.76	14.00	02/14/11 18:08	0.36	14.00	
GW0029	02/07/11 15:16	02/08/11 08:45	02/14/11 09:29	6.76	14.00	02/14/11 18:29	0.38	14.00	
GW0033	02/04/11 12:55	02/08/11 08:45	02/14/11 09:29	9.86	14.00	02/14/11 18:50	0.39	14.00	
GW0025	02/08/11 12:04	02/09/11 08:45	02/14/11 09:29	5.89	14.00	02/14/11 19:11	0.40	14.00	
GW0027	02/08/11 16:08	02/09/11 08:45	02/14/11 09:29	5.72	14.00	02/14/11 19:33	0.42	14.00	
GW0023	02/10/11 14:48	02/11/11 08:45	02/14/11 09:29	3.78	14.00	02/14/11 19:54	0.43	14.00	
GW0026	02/10/11 10:35	02/11/11 08:45	02/14/11 09:29	3.95	14.00	02/14/11 20:37	0.46	14.00	
GW0024	02/09/11 11:48	02/10/11 11:45	02/14/11 09:29	4.86	14.00	02/14/11 21:40	0.51	14.00	
GW0030	02/09/11 14:52	02/10/11 11:45	02/14/11 09:29	4.73	14.00	02/14/11 22:01	0.52	14.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B14006-BS1 File ID: 021F0101.D

Sampled: Prepared: Analyzed: 02/14/11 17:05

Solids: Preparation: EDB Dilution:

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.4885	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B14006-BS1 File ID: 021R0101.D

Sampled: Prepared: Analyzed: 02/14/11 17:05

Solids: Preparation: EDB Dilution:

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5406	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B14006-MS1 File ID: 032F0101.D

Sampled: Prepared: Analyzed: 02/14/11 20:58

Solids: Preparation: EDB Dilution:

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5198	0.00990	0.0198	0.0297	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B14006-MS1 File ID: 032R0101.D

Sampled: Prepared: Analyzed: 02/14/11 20:58

Solids: Preparation: EDB Dilution:

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5608	0.00990	0.0198	0.0297	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B14006-MSD1 File ID: 033F0101.D

Sampled: Prepared: Analyzed: 02/14/11 21:19

Solids: Preparation: EDB Dilution:

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5352	0.00986	0.0197	0.0296	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B14006-MSD1 File ID: 033R0101.D

Sampled: Prepared: Analyzed: 02/14/11 21:19

Solids: Preparation: EDB Dilution:

Batch: 1B14006 Sequence: 1B04508 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5937	0.00986	0.0197	0.0296	

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0027

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102076-03 Date(s) Analyzed: 02/14/2011 02/14/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.0638	
	2	0.58	0.55	0.61	0.0656	3

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0023

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102088-01 Date(s) Analyzed: 02/14/2011 02/14/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.138	
	2	0.58	0.55	0.61	0.160	15

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0024

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102097-01 Date(s) Analyzed: 02/14/2011 02/14/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.840	
	2	0.58	0.55	0.61	0.923	9

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1B14006-BS1 Date(s) Analyzed: 02/14/2011 02/14/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.4885	
	2	0.58	0.55	0.61	0.5406	10

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1B14006-MS1 Date(s) Analyzed: 02/14/2011 02/14/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.5198	
	2	0.58	0.55	0.61	0.5608	8

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1B14006-MSD1 Date(s) Analyzed: 02/14/2011 02/14/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.5352	
	2	0.58	0.55	0.61	0.5937	10

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_003

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** GL-ECD2

Analyte	MDL	MRL	Units	Method
1,2-Dibromoethane	0.0100	0.0300	ug/L	SW8011
1,2-Dibromoethane [2C]	0.0100	0.0300	ug/L	SW8011

Data for SW6010B Forms

ANALYSIS DATA SHEET

GW0014

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/07/11 11:15
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102062-01
Received: 02/08/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	46400	1000	2000	5000	1		SW6010B	1B15002	02/17/11 15:35
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 15:35
7439-95-4	Magnesium	7000	1000	3000	5000	1		SW6010B	1B15002	02/17/11 15:35
7440-09-7	Potassium	2840	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 15:35
7440-23-5	Sodium	29000	1000	3000	5000	1	X	SW6010B	1B15002	02/17/11 15:35

ANALYSIS DATA SHEET

GW0014

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/07/11 11:15
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102062-02
Received: 02/08/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	89.2	30.0	60.0	100	1	J	SW6010B	1B15002	02/17/11 15:39
7439-96-5	Manganese (dissolved)	32.0	3.00	6.00	15.0	1		SW6010B	1B15002	02/17/11 15:39

ANALYSIS DATA SHEET

GW0028

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/07/11 15:16
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102062-03
Received: 02/08/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	77100	1000	2000	5000	1		SW6010B	1B15002	02/17/11 15:44
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 15:44
7439-95-4	Magnesium	10600	1000	3000	5000	1		SW6010B	1B15002	02/17/11 15:44
7440-09-7	Potassium	4050	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 15:44
7440-23-5	Sodium	38800	1000	3000	5000	1	X	SW6010B	1B15002	02/17/11 15:44

ANALYSIS DATA SHEET

GW0028

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/07/11 15:16
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102062-04
Received: 02/08/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1B15002	02/17/11 15:48
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1B15002	02/17/11 15:48

ANALYSIS DATA SHEET

GW0029

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/07/11 15:16
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102062-06
Received: 02/08/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	76500	1000	2000	5000	1		SW6010B	1B15002	02/17/11 15:53
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 15:53
7439-95-4	Magnesium	10400	1000	3000	5000	1		SW6010B	1B15002	02/17/11 15:53
7440-09-7	Potassium	3920	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 15:53
7440-23-5	Sodium	36700	1000	3000	5000	1	X	SW6010B	1B15002	02/17/11 15:53

ANALYSIS DATA SHEET

GW0028

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/07/11 15:16
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102062-07
Received: 02/08/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1B15002	02/17/11 15:58
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1B15002	02/17/11 15:58

ANALYSIS DATA SHEET

GW0033

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/04/11 12:55
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102063-01
Received: 02/08/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	30800	1000	2000	5000	1		SW6010B	1B15002	02/17/11 16:02
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 16:02
7439-95-4	Magnesium	4510	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 16:02
7440-09-7	Potassium	2630	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 16:02
7440-23-5	Sodium	24200	1000	3000	5000	1	X	SW6010B	1B15002	02/17/11 16:02

ANALYSIS DATA SHEET

GW0033

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/04/11 12:55
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102063-02
Received: 02/08/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1B15002	02/17/11 16:07
7439-96-5	Manganese (dissolved)	44.7	3.00	6.00	15.0	1		SW6010B	1B15002	02/17/11 16:07

ANALYSIS DATA SHEET

GW0025

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/08/11 12:04
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102076-01
Received: 02/09/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	33500	1000	2000	5000	1		SW6010B	1B15002	02/17/11 16:12
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 16:12
7439-95-4	Magnesium	4400	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 16:12
7440-09-7	Potassium	2350	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 16:12
7440-23-5	Sodium	29500	1000	3000	5000	1	X	SW6010B	1B15002	02/17/11 16:12

ANALYSIS DATA SHEET

GW0025

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/08/11 12:04
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102076-02
Received: 02/09/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1B15002	02/17/11 16:16
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1B15002	02/17/11 16:16

ANALYSIS DATA SHEET

GW0027

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/08/11 16:08
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102076-03
Received: 02/09/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	37500	1000	2000	5000	1		SW6010B	1B15002	02/17/11 16:34
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 16:34
7439-95-4	Magnesium	5150	1000	3000	5000	1		SW6010B	1B15002	02/17/11 16:34
7440-09-7	Potassium	2620	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 16:34
7440-23-5	Sodium	25200	1000	3000	5000	1		SW6010B	1B15002	02/17/11 16:34

ANALYSIS DATA SHEET

GW0027

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/08/11 16:08
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102076-04
Received: 02/09/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1B15002	02/17/11 16:38
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1B15002	02/17/11 16:38

ANALYSIS DATA SHEET

GW8001-RB

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/08/11 08:45
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102076-06
Received: 02/09/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium		1000	2000	5000	1	U	SW6010B	1B15002	02/17/11 16:43
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 16:43
7439-95-4	Magnesium		1000	3000	5000	1	U	SW6010B	1B15002	02/17/11 16:43
7440-09-7	Potassium		1000	3000	5000	1	U	SW6010B	1B15002	02/17/11 16:43
7440-23-5	Sodium		1000	3000	5000	1	U	SW6010B	1B15002	02/17/11 16:43

ANALYSIS DATA SHEET

GW8001-RB

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/08/11 08:45
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102076-07
Received: 02/09/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1B15002	02/17/11 16:48
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1B15002	02/17/11 16:48

ANALYSIS DATA SHEET

GW0023

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/10/11 14:48
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102088-01
Received: 02/11/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	66300	1000	2000	5000	1		SW6010B	1B15002	02/17/11 16:52
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 16:52
7439-95-4	Magnesium	9130	1000	3000	5000	1		SW6010B	1B15002	02/17/11 16:52
7440-09-7	Potassium	3310	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 16:52
7440-23-5	Sodium	33000	1000	3000	5000	1		SW6010B	1B15002	02/17/11 16:52

ANALYSIS DATA SHEET

GW0023

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/10/11 14:48
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102088-02
Received: 02/11/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	88.4	30.0	60.0	100	1	J	SW6010B	1B15002	02/17/11 16:57
7439-96-5	Manganese (dissolved)	220	3.00	6.00	15.0	1		SW6010B	1B15002	02/17/11 16:57

ANALYSIS DATA SHEET

GW0026

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/10/11 10:35
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102088-03
Received: 02/11/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	64400	1000	2000	5000	1		SW6010B	1B15002	02/17/11 17:02
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 17:02
7439-95-4	Magnesium	19000	1000	3000	5000	1		SW6010B	1B15002	02/17/11 17:02
7440-09-7	Potassium	3960	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 17:02
7440-23-5	Sodium	41200	1000	3000	5000	1		SW6010B	1B15002	02/17/11 17:02

ANALYSIS DATA SHEET

GW0026

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/10/11 10:35
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102088-04
Received: 02/11/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	34.3	30.0	60.0	100	1	J	SW6010B	1B15002	02/17/11 17:25
7439-96-5	Manganese (dissolved)	295	3.00	6.00	15.0	1		SW6010B	1B15002	02/17/11 17:25

ANALYSIS DATA SHEET

GW0024

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/09/11 11:48
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102097-01
Received: 02/10/11 11:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	44700	1000	2000	5000	1		SW6010B	1B15002	02/17/11 17:49
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 17:49
7439-95-4	Magnesium	5830	1000	3000	5000	1		SW6010B	1B15002	02/17/11 17:49
7440-09-7	Potassium	2560	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 17:49
7440-23-5	Sodium	26600	1000	3000	5000	1		SW6010B	1B15002	02/17/11 17:49

ANALYSIS DATA SHEET

GW0030

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/09/11 14:52
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102097-02
Received: 02/10/11 11:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	37400	1000	2000	5000	1		SW6010B	1B15002	02/17/11 17:53
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1B15002	02/17/11 17:53
7439-95-4	Magnesium	5380	1000	3000	5000	1		SW6010B	1B15002	02/17/11 17:53
7440-09-7	Potassium	2390	1000	3000	5000	1	J	SW6010B	1B15002	02/17/11 17:53
7440-23-5	Sodium	24000	1000	3000	5000	1		SW6010B	1B15002	02/17/11 17:53

ANALYSIS DATA SHEET

GW0024

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/09/11 11:48
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102097-04
Received: 02/10/11 11:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1B17003	02/22/11 11:54
7439-96-5	Manganese (dissolved)	146	3.00	6.00	15.0	1		SW6010B	1B17003	02/22/11 11:54

ANALYSIS DATA SHEET

GW0030

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/09/11 14:52
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102097-05
Received: 02/10/11 11:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1B17003	02/22/11 11:59
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1B17003	02/22/11 11:59

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: kirtland_003
Project: Kirtland AFB 2011
Calibration: 1049001
Sequence: 1B04817

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04817-ICV1	Calcium	50000	48650	97.3	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10280	103	ug/L	+/- 10.00%
	Lead	1000	991.1	99.1	ug/L	+/- 10.00%
	Magnesium	50000	48900	97.8	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1018	102	ug/L	+/- 10.00%
	Potassium	10000	10070	101	ug/L	+/- 10.00%
	Sodium	50000	54300	109	ug/L	+/- 10.00%
1B04817-CCV1	Calcium	50000	48370	96.7	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10340	103	ug/L	+/- 10.00%
	Lead	1000	987.4	98.7	ug/L	+/- 10.00%
	Magnesium	50000	48320	96.6	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1008	101	ug/L	+/- 10.00%
	Potassium	10000	10400	104	ug/L	+/- 10.00%
	Sodium	50000	53220	106	ug/L	+/- 10.00%
1B04817-CCV4	Calcium	50000	46620	93.2	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10150	102	ug/L	+/- 10.00%
	Lead	1000	1012	101	ug/L	+/- 10.00%
	Magnesium	50000	47060	94.1	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	995.3	99.5	ug/L	+/- 10.00%
	Potassium	10000	10720	107	ug/L	+/- 10.00%
	Sodium	**50000**	**55390**	**111**	**ug/L**	+/- 10.00%
1B04817-CCV5	Calcium	50000	47980	96.0	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10290	103	ug/L	+/- 10.00%
	Lead	1000	1002	100	ug/L	+/- 10.00%
	Magnesium	50000	46750	93.5	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1002	100	ug/L	+/- 10.00%
	Potassium	10000	10200	102	ug/L	+/- 10.00%
	Sodium	50000	52470	105	ug/L	+/- 10.00%
1B04817-CCV6	Calcium	50000	48950	97.9	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10310	103	ug/L	+/- 10.00%
	Lead	1000	989.8	99.0	ug/L	+/- 10.00%
	Magnesium	50000	47040	94.1	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1008	101	ug/L	+/- 10.00%
	Potassium	10000	10010	100	ug/L	+/- 10.00%
	Sodium	50000	50260	101	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: kirtland_003
Project: Kirtland AFB 2011
Calibration: 1054001
Sequence: 1B05405

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B05405-ICV1	Iron (dissolved)	10000	10020	100	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1034	103	ug/L	+/- 10.00%
1B05405-CCV1	Iron (dissolved)	10000	9872	98.7	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1024	102	ug/L	+/- 10.00%
1B05405-CCV2	Iron (dissolved)	10000	9739	97.4	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	970.5	97.1	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1049001

Sequence: 1B04817

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B04817-CRL1	Calcium	2000	1923	96.2	ug/L	80 - 120
	Iron (dissolved)	60.00	65.30	109	ug/L	80 - 120
	Lead	3.000	3.312	110	ug/L	80 - 120
	Magnesium	3000	2886	96.2	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.588	110	ug/L	80 - 120
	Potassium	3000	3226	108	ug/L	80 - 120
	Sodium	3000	3350	112	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1054001

Sequence: 1B05405

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B05405-CRL1	Iron (dissolved)	60.00	61.86	103	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.635	111	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1B04817
Calibration: 1049001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04817-ICB1	Calcium	10.50	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	1.163	30.0	100	ug/L	U	SW6010B
	Lead	0.4660	1.50	3.00	ug/L	U	SW6010B
	Magnesium	11.39	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.2487	3.00	15.0	ug/L	U	SW6010B
	Potassium	4.850	1000	5000	ug/L	U	SW6010B
	Sodium	14.21	1000	5000	ug/L	U	SW6010B
1B04817-CCB1	Calcium	44.6	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	17.6	30.0	100	ug/L	U	SW6010B
	Lead	0.282	1.50	3.00	ug/L	U	SW6010B
	Magnesium	41.5	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0202	3.00	15.0	ug/L	U	SW6010B
	Potassium	10.4	1000	5000	ug/L	U	SW6010B
	Sodium	9.19	1000	5000	ug/L	U	SW6010B
1B04817-CCB4	Calcium	20.5	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	2.31	30.0	100	ug/L	U	SW6010B
	Lead	-0.0185	1.50	3.00	ug/L	U	SW6010B
	Magnesium	11.7	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.165	3.00	15.0	ug/L	U	SW6010B
	Potassium	6.62	1000	5000	ug/L	U	SW6010B
	Sodium	32.5	1000	5000	ug/L	U	SW6010B
1B15002-BLK1	Calcium	9.36	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.272	30.0	100	ug/L	U	SW6010B
	Lead	-0.222	1.50	3.00	ug/L	U	SW6010B
	Magnesium	7.39	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0410	3.00	15.0	ug/L	U	SW6010B
	Potassium	3.36	1000	5000	ug/L	U	SW6010B
	Sodium	11.6	1000	5000	ug/L	U	SW6010B
1B04817-CCB5	Calcium	19.4	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	1.59	30.0	100	ug/L	U	SW6010B
	Lead	0.221	1.50	3.00	ug/L	U	SW6010B
	Magnesium	12.0	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0992	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1B04817
Calibration: 1049001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04817-CCB5	Potassium	8.38	1000	5000	ug/L	U	SW6010B
	Sodium	20.1	1000	5000	ug/L	U	SW6010B
1B04817-CCB6	Calcium	16.9	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	2.23	30.0	100	ug/L	U	SW6010B
	Lead	0.945	1.50	3.00	ug/L	U	SW6010B
	Magnesium	2.72	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0996	3.00	15.0	ug/L	U	SW6010B
	Potassium	7.97	1000	5000	ug/L	U	SW6010B
	Sodium	17.5	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1B05405
Calibration: 1054001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B05405-ICB1	Iron (dissolved)	3.448	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.1088	3.00	15.0	ug/L	U	SW6010B
1B05405-CCB1	Iron (dissolved)	1.86	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0456	3.00	15.0	ug/L	U	SW6010B
1B17003-BLK1	Iron (dissolved)	-0.190	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0296	3.00	15.0	ug/L	U	SW6010B
1B05405-CCB2	Iron (dissolved)	2.45	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.165	3.00	15.0	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1049001
Sequence: 1B04817

Lab Sample ID	Analyte	True	Found	%R	Units
1B04817-IFA1	Calcium	500000	477,700.00	95.5	ug/L
	Iron (dissolved)	200000	202,710.00	101	ug/L
	Lead		11.70		ug/L
	Magnesium	500000	497,390.00	99.5	ug/L
	Manganese (dissolved)		3.56		ug/L
	Potassium		-52.11		ug/L
	Sodium		22.94		ug/L
1B04817-IFB1	Calcium	500000	439,470.00	87.9	ug/L
	Iron (dissolved)	200000	188,740.00	94.4	ug/L
	Lead	50.00	59.50	119	ug/L
	Magnesium	500000	453,980.00	90.8	ug/L
	Manganese (dissolved)	500.0	437.33	87.5	ug/L
	Potassium		-26.46		ug/L
	Sodium		77.53		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Instrument ID: ME-ICP

Sequence: 1B05405

SDG: kirtland_003

Project: Kirtland AFB 2011

Calibration: 1054001

Lab Sample ID	Analyte	True	Found	%R	Units
1B05405-IFA1	Iron (dissolved)	200000	193,420.00	96.7	ug/L
	Manganese (dissolved)		3.85		ug/L
1B05405-IFB1	Iron (dissolved)	200000	180,570.00	90.3	ug/L
	Manganese (dissolved)	500.0	446.45	89.3	ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B15002

% Solids:

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Calcium	5000	64440	66890	49.0		80 - 120
Lead	250.0	ND	252.4	101		80 - 120
Magnesium	5000	18960	22660	74.0		80 - 120
Potassium	5000	3962	8871	98.2		80 - 120
Sodium	5000	41240	44110	57.3		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Calcium	5000	66630	43.7	0.395		20	80 - 120
Lead	250.0	246.0	98.4	2.53		20	80 - 120
Magnesium	5000	22540	71.7	0.522		20	80 - 120
Potassium	5000	8813	97.0	0.651		20	80 - 120
Sodium	5000	44470	64.5	0.815		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B15002

% Solids:

Source Sample Name: **1102088-04**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Iron (dissolved)	1000	34.28	1064	103		80 - 120
Manganese (dissolved)	500.0	294.6	792.2	99.5		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Iron (dissolved)	1000	1087	105	2.14		20	80 - 120
Manganese (dissolved)	500.0	811.4	103	2.39		20	80 - 120

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010B

GW0026

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 1B15002-PS1
Batch: 1B15002
Lab Source ID: 1102088-03
Preparation: MET_3005A
Initial/Final: 20 mL / 20 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Calcium	68540	64440	5000	81.9	80 - 120
Lead	260.6	ND	250.0	104	80 - 120
Magnesium	23210	18960	5000	85.1	80 - 120
Potassium	9096	3962	5000	103	80 - 120
Sodium	**44980**	**41240**	**5000**	**74.7**	**80 - 120**

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010B

GW0026

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 1B15002-PS2
Batch: 1B15002
Lab Source ID: 1102088-04
Preparation: MET_3005A
Initial/Final: 20 mL / 20 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Iron (dissolved)	1133	34.28	1000	110	80 - 120
Manganese (dissolved)	825.8	294.6	500.0	106	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B15002
Laboratory ID: 1B15002-BS1
Preparation: MET_3005A
Initial/Final: 50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Calcium	5000	4431	88.6	80 - 120
Iron (dissolved)	1000	1002	100	80 - 120
Lead	250.0	260.0	104	80 - 120
Magnesium	5000	4518	90.4	80 - 120
Manganese (dissolved)	500.0	509.6	102	80 - 120
Potassium	5000	5440	109	80 - 120
Sodium	5000	5690	114	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B17003	Laboratory ID:	1B17003-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Iron (dissolved)	1000	1059	106	80 - 120
Manganese (dissolved)	500.0	531.6	106	80 - 120

SERIAL DILUTION

SW6010B

GW0026

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 1B04817
Preparation: MET_3005A

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1B15002-DUP1
Lab Source ID: 1102088-03
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Calcium	64441	65350	1.41		SW6010B	10.00
Lead	ND	ND			SW6010B	10.00
Magnesium	18956	18628	-1.73		SW6010B	10.00
Potassium	3962.2	ND			SW6010B	10.00
Sodium	41243	39014	-5.41		SW6010B	10.00

SERIAL DILUTION

SW6010B

GW0026

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 1B04817
Preparation: MET_3005A

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1B15002-DUP2
Lab Source ID: 1102088-04
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Iron (dissolved)	34.285	ND			SW6010B	10.00
Manganese (dissolved)	294.65	307.67	4.42		SW6010B	10.00

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_003

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** ME-ICP

Analyte	MDL	MRL	Units	Method
Calcium	1000	5000	ug/L	SW6010B
Iron (dissolved)	30.0	100	ug/L	SW6010B
Lead	1.50	3.00	ug/L	SW6010B
Magnesium	1000	5000	ug/L	SW6010B
Manganese (dissolved)	3.00	15.0	ug/L	SW6010B
Potassium	1000	5000	ug/L	SW6010B
Sodium	1000	5000	ug/L	SW6010B

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_003

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_003

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		As	B	Ba	Be	Cd
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_003

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	K	Mn
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_003

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Mo	Na	Ni	Pb	Sb
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_003

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Se	Sn	Ti	Tl	V
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_003

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				

Comments:

FORM XA-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories, LLC

Client: Shaw E & I (I700) SDG: kirtland_003

Project: Kirtland AFB 2011

ICP Instrument ID: ME-ICP Date: 09/11/2009

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Calcium	15	500000	P
Calcium	15	500000	P
Calcium	15	500000	P
Calcium	15	500000	P
Calcium	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Lead	15	10000	P
Lead	15	10000	P
Lead	15	10000	P
Lead	15	10000	P
Lead	15	10000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Manganese	15	10000	P
Manganese	15	10000	P
Manganese	15	10000	P
Manganese	15	10000	P
Manganese	15	10000	P
Potassium	15	100000	P
Potassium	15	100000	P
Potassium	15	100000	P
Potassium	15	100000	P
Potassium	15	100000	P
Sodium	15	500000	P
Sodium	15	500000	P
Sodium	15	500000	P
Sodium	15	500000	P
Sodium	15	500000	P

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B15002 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0014	1102062-01	02/15/11 08:15	50.00	50.00
GW0014	1102062-02	02/15/11 08:15	50.00	50.00
GW0028	1102062-03	02/15/11 08:15	50.00	50.00
GW0028	1102062-04	02/15/11 08:15	50.00	50.00
GW0029	1102062-06	02/15/11 08:15	50.00	50.00
GW0028	1102062-07	02/15/11 08:15	50.00	50.00
GW0033	1102063-01	02/15/11 08:15	50.00	50.00
GW0033	1102063-02	02/15/11 08:15	50.00	50.00
GW0025	1102076-01	02/15/11 08:15	50.00	50.00
GW0025	1102076-02	02/15/11 08:15	50.00	50.00
GW0027	1102076-03	02/15/11 08:15	50.00	50.00
GW0027	1102076-04	02/15/11 08:15	50.00	50.00
GW8001-RB	1102076-06	02/15/11 08:15	50.00	50.00
GW8001-RB	1102076-07	02/15/11 08:15	50.00	50.00
GW0023	1102088-01	02/15/11 08:15	50.00	50.00
GW0023	1102088-02	02/15/11 08:15	50.00	50.00
GW0026	1102088-03	02/15/11 08:15	50.00	50.00
GW0026	1102088-04	02/15/11 08:15	50.00	50.00
GW0024	1102097-01	02/15/11 08:15	50.00	50.00
GW0030	1102097-02	02/15/11 08:15	50.00	50.00
Blank	1B15002-BLK1	02/15/11 08:15	50.00	50.00
Blank	1B15002-BLK1	02/15/11 08:15	50.00	50.00
LCS	1B15002-BS1	02/15/11 08:15	50.00	50.00
LCS	1B15002-BS1	02/15/11 08:15	50.00	50.00
GW0026	1B15002-DUP1	02/15/11 08:15	50.00	50.00
GW0026	1B15002-DUP2	02/15/11 08:15	50.00	50.00
GW0026	1B15002-MS1	02/15/11 08:15	50.00	50.00
GW0026	1B15002-MS2	02/15/11 08:15	50.00	50.00
GW0026	1B15002-MSD1	02/15/11 08:15	50.00	50.00
GW0026	1B15002-MSD2	02/15/11 08:15	50.00	50.00
GW0026	1B15002-PS1	02/15/11 08:15	20.00	20.00
GW0026	1B15002-PS2	02/15/11 08:15	20.00	20.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B17003 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0024	1102097-04	02/17/11 08:12	50.00	50.00
GW0030	1102097-05	02/17/11 08:12	50.00	50.00
Blank	1B17003-BLK1	02/17/11 08:13	50.00	50.00
LCS	1B17003-BS1	02/17/11 08:13	50.00	50.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04817
Instrument: ME-ICP
Calibration: 1049001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B04817-CAL1	021711A-001	02/17/11 09:23
Cal Standard	1B04817-CAL1	021711A-001	02/17/11 09:23
Cal Standard	1B04817-CAL2	021711A-002	02/17/11 09:28
Cal Standard	1B04817-CAL2	021711A-002	02/17/11 09:28
Cal Standard	1B04817-CAL3	021711A-003	02/17/11 09:33
Cal Standard	1B04817-CAL3	021711A-003	02/17/11 09:33
Cal Standard	1B04817-CAL4	021711A-004	02/17/11 09:38
Cal Standard	1B04817-CAL5	021711A-005	02/17/11 09:43
Cal Standard	1B04817-CAL5	021711A-005	02/17/11 09:43
Cal Standard	1B04817-CAL6	021711A-006	02/17/11 09:48
Cal Standard	1B04817-CAL6	021711A-006	02/17/11 09:48
Cal Standard	1B04817-CAL7	021711A-007	02/17/11 09:53
Cal Standard	1B04817-CAL8	021711A-008	02/17/11 09:58
Initial Cal Check	1B04817-ICV1	021711B-001	02/17/11 11:01
Initial Cal Check	1B04817-ICV1	021711B-001	02/17/11 11:01
Initial Cal Blank	1B04817-ICB1	021711B-002	02/17/11 11:08
Initial Cal Blank	1B04817-ICB1	021711B-002	02/17/11 11:08
Instrument RL Check	1B04817-CRL1	021711B-003	02/17/11 11:13
Instrument RL Check	1B04817-CRL1	021711B-003	02/17/11 11:13
Interference Check A	1B04817-IFA1	021711B-006	02/17/11 11:29
Interference Check A	1B04817-IFA1	021711B-006	02/17/11 11:29
Interference Check B	1B04817-IFB1	021711B-007	02/17/11 11:34
Interference Check B	1B04817-IFB1	021711B-007	02/17/11 11:34
Calibration Check	1B04817-CCV1	021711B-009	02/17/11 11:46
Calibration Check	1B04817-CCV1	021711B-009	02/17/11 11:46
Calibration Blank	1B04817-CCB1	021711B-010	02/17/11 11:55
Calibration Blank	1B04817-CCB1	021711B-010	02/17/11 11:55
Calibration Check	1B04817-CCV4	021711C-011	02/17/11 15:12
Calibration Check	1B04817-CCV4	021711C-011	02/17/11 15:12
Calibration Blank	1B04817-CCB4	021711C-012	02/17/11 15:19
Calibration Blank	1B04817-CCB4	021711C-012	02/17/11 15:19
Blank	1B15002-BLK1	021711C-013	02/17/11 15:24

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04817
Instrument: ME-ICP
Calibration: 1049001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1B15002-BLK1	021711C-013	02/17/11 15:24
LCS	1B15002-BS1	021711C-014	02/17/11 15:28
LCS	1B15002-BS1	021711C-014	02/17/11 15:28
GW0014	1102062-01	021711C-015	02/17/11 15:35
GW0014	1102062-02	021711C-016	02/17/11 15:39
GW0028	1102062-03	021711C-017	02/17/11 15:44
GW0028	1102062-04	021711C-018	02/17/11 15:48
GW0029	1102062-06	021711C-019	02/17/11 15:53
GW0028	1102062-07	021711C-020	02/17/11 15:58
GW0033	1102063-01	021711C-021	02/17/11 16:02
GW0033	1102063-02	021711C-022	02/17/11 16:07
GW0025	1102076-01	021711C-023	02/17/11 16:12
GW0025	1102076-02	021711C-024	02/17/11 16:16
Calibration Check	1B04817-CCV5	021711C-025	02/17/11 16:22
Calibration Check	1B04817-CCV5	021711C-025	02/17/11 16:22
Calibration Blank	1B04817-CCB5	021711C-026	02/17/11 16:29
Calibration Blank	1B04817-CCB5	021711C-026	02/17/11 16:29
GW0027	1102076-03	021711C-027	02/17/11 16:34
GW0027	1102076-04	021711C-028	02/17/11 16:38
GW8001-RB	1102076-06	021711C-029	02/17/11 16:43
GW8001-RB	1102076-07	021711C-030	02/17/11 16:48
GW0023	1102088-01	021711C-031	02/17/11 16:52
GW0023	1102088-02	021711C-032	02/17/11 16:57
GW0026	1102088-03	021711C-033	02/17/11 17:02
GW0026	1B15002-MS1	021711C-034	02/17/11 17:06
GW0026	1B15002-MSD1	021711C-035	02/17/11 17:11
GW0026	1B15002-PS1	021711C-036	02/17/11 17:15
GW0026	1B15002-DUP1	021711C-037	02/17/11 17:21
GW0026	1102088-04	021711C-038	02/17/11 17:25
GW0026	1B15002-MS2	021711C-039	02/17/11 17:30
GW0026	1B15002-MSD2	021711C-040	02/17/11 17:34
GW0026	1B15002-PS2	021711C-041	02/17/11 17:39

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04817	Instrument:	ME-ICP
Calibration:	1049001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0026	1B15002-DUP2	021711C-042	02/17/11 17:44
GW0024	1102097-01	021711C-043	02/17/11 17:49
GW0030	1102097-02	021711C-044	02/17/11 17:53
Calibration Check	1B04817-CCV6	021711C-045	02/17/11 17:59
Calibration Check	1B04817-CCV6	021711C-045	02/17/11 17:59
Calibration Blank	1B04817-CCB6	021711C-046	02/17/11 18:06
Calibration Blank	1B04817-CCB6	021711C-046	02/17/11 18:06

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05405
Instrument: ME-ICP
Calibration: 1054001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B05405-CAL1	022211A-001	02/22/11 09:31
Cal Standard	1B05405-CAL2	022211A-002	02/22/11 09:36
Cal Standard	1B05405-CAL3	022211A-003	02/22/11 09:41
Cal Standard	1B05405-CAL4	022211A-004	02/22/11 09:45
Cal Standard	1B05405-CAL5	022211A-005	02/22/11 09:50
Cal Standard	1B05405-CAL6	022211A-006	02/22/11 09:55
Initial Cal Check	1B05405-ICV1	022211B-001	02/22/11 10:52
Initial Cal Blank	1B05405-ICB1	022211B-002	02/22/11 10:59
Instrument RL Check	1B05405-CRL1	022211B-003	02/22/11 11:04
Interference Check A	1B05405-IFA1	022211B-005	02/22/11 11:14
Interference Check B	1B05405-IFB1	022211B-006	02/22/11 11:19
Calibration Check	1B05405-CCV1	022211B-008	02/22/11 11:31
Calibration Blank	1B05405-CCB1	022211B-009	02/22/11 11:38
Blank	1B17003-BLK1	022211B-010	02/22/11 11:43
LCS	1B17003-BS1	022211B-011	02/22/11 11:47
GW0024	1102097-04	022211B-012	02/22/11 11:54
GW0030	1102097-05	022211B-013	02/22/11 11:59
Calibration Check	1B05405-CCV2	022211C-001	02/22/11 13:40
Calibration Blank	1B05405-CCB2	022211C-002	02/22/11 13:47

INITIAL CALIBRATION DATA

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1049001
Instrument: ME-ICP
Matrix: Water
Calibration Date: 2/17/2011 9:57:09AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.118E-05	10000	2.1295E-05			500000	0.0000217		
Antimony	0	0	100	0.0009386	1000	9.6945E-04					10000	9.6202E-04
Arsenic	0	0	100	0.0004102	1000	4.3276E-04					10000	4.2446E-04
Barium	0	0	50	0.013577	1000	0.012734	5000	0.0128624				
Beryllium	0	0	100	0.0017999	1000	0.0018329					10000	0.0017638
Boron	0	0	50	0.000011	1000	1.208E-05					5000	1.1856E-05
Cadmium	0	0	100	0.010853	1000	0.010724					10000	0.010037
Calcium	0	0	1100	2.480909E-05	50000	2.5036E-05					10000	
Chromium	0	0	100	0.0000244	1000	0.000024					10000	2.457E-05
Cobalt	0	0	100	0.0062548	1000	0.0061548					10000	0.0062211
Copper	0	0	100	0.0000928	1000	8.697E-05					10000	8.5636E-05
Iron	0	0	5100	9.915686E-06	10000	9.388E-06			500000	9.118E-06	10000	
Lead	0	0	100	0.0013903	1000	0.0013907					10000	0.0013822
Magnesium	0	0	5100		50000	8.192E-07			500000	8.2408E-07	10000	
Manganese	0	0	100	0.0001819	1000	1.7614E-04	10000	0.0001692			10000	
Molybdenum	0	0	100	0.0049424	1000	0.0049779					10000	0.0049152
Nickel	0	0	100	0.0037464	1000	0.0036204					10000	0.0036095
Potassium	0	0	1000	1.337E-05	10000	1.3953E-05						
Selenium	0	0	100	0.0005314	1000	5.3532E-04					10000	5.1736E-04
Silver	0	0	20	0.0000495	500	4.762E-05	2000	4.8155E-05				
Sodium	0	0	1000		50000	5.746E-05						
Strontium	0	0	100	0.001731	1000	0.001736					10000	0.0017
Thallium	0	0	100	0.0008812	1000	9.0502E-04					10000	8.9675E-04
Tin	0	0	50	0.0012772	1000	0.0013072					5000	1.31564E-03
Titanium	0	0	100	0.0001814	1000	1.8095E-04					10000	1.8185E-04
Vanadium	0	0	100	0.0000354	1000	3.485E-05					10000	3.5242E-05
Zinc	0	0	100	0.0042986	1000	0.0042934					10000	0.0042595
Aluminum	0	0	5000	2.118E-05	10000	2.1295E-05			500000	0.0000217		
Antimony	0	0	100	0.0009386	1000	9.6945E-04					10000	9.6202E-04
Arsenic	0	0	100	0.0004102	1000	4.3276E-04					10000	4.2446E-04
Barium	0	0	50	0.013577	1000	0.012734	5000	0.0128624				

INITIAL CALIBRATION DATA

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1049001
Instrument: ME-ICP
Matrix: Water
Calibration Date: 2/17/2011 9:57:09AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium	0	0	100	0.0017999	1000	0.0018329					10000	0.0017638
Boron	0	0	50	0.000011	1000	1.208E-05					5000	1.1856E-05
Cadmium	0	0	100	0.010853	1000	0.010724					10000	0.010037
Calcium	0	0	1100	2.480909E-05	50000	2.5036E-05					10000	
Chromium	0	0	100	0.0000244	1000	0.000024					10000	2.457E-05
Cobalt	0	0	100	0.0062548	1000	0.0061548					10000	0.0062211
Copper	0	0	100	0.0000928	1000	8.697E-05					10000	8.5636E-05
Iron	0	0	5100	9.915686E-06	10000	9.388E-06			500000	9.118E-06	10000	
Lead	0	0	100	0.0013903	1000	0.0013907					10000	0.0013822
Magnesium	0	0	5100		50000	8.192E-07			500000	8.2408E-07	10000	
Manganese	0	0	100	0.0001819	1000	1.7614E-04	10000	0.0001692			10000	
Molybdenum	0	0	100	0.0049424	1000	0.0049779					10000	0.0049152
Nickel	0	0	100	0.0037464	1000	0.0036204					10000	0.0036095
Potassium	0	0	1000	1.337E-05	10000	1.3953E-05						
Selenium	0	0	100	0.0005314	1000	5.3532E-04					10000	5.1736E-04
Silver	0	0	20	0.0000495	500	4.762E-05	2000	4.8155E-05				
Sodium	0	0	1000		50000	5.746E-05						
Strontium	0	0	100	0.001731	1000	0.001736					10000	0.0017
Thallium	0	0	100	0.0008812	1000	9.0502E-04					10000	8.9675E-04
Tin	0	0	50	0.0012772	1000	0.0013072					5000	1.31564E-03
Titanium	0	0	100	0.0001814	1000	1.8095E-04					10000	1.8185E-04
Vanadium	0	0	100	0.0000354	1000	3.485E-05					10000	3.5242E-05
Zinc	0	0	100	0.0042986	1000	0.0042934					10000	0.0042595

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1049001
Instrument: ME-ICP
Matrix: Water
Calibration Date: 2/17/2011 9:57:09AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	2.5168E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	8.372E-07								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.3888E-05										
Selenium												
Silver												
Sodium	100000	5.6072E-05	500000	5.563E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1049001
Instrument: ME-ICP
Matrix: Water
Calibration Date: 2/17/2011 9:57:09AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	2.5168E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	8.372E-07								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.3888E-05										
Selenium												
Silver												
Sodium	100000	5.6072E-05	500000	5.563E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1049001	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/17/2011 9:57:09AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.604375E-05	66.68116	5.37294	190.1334	0.9999999		0.998	
Antimony	7.175175E-04	66.69184	30.24245	197.554	0.9999991		0.998	
Arsenic	3.16855E-04	66.73147	12.91456	197.1221	0.999995		0.998	
Barium	9.79335E-03	66.77413	6.272715	189.761	0.9999943		0.998	
Beryllium	1.34915E-03	66.69947	12.86045	193.1385	0.9999852		0.998	
Boron	8.734E-06	66.87927	18.1073	193.6232	0.9999816		0.998	
Cadmium	0.0079035	66.8205	0.376785	139.4126	0.9999606		0.998	
Calcium	1.875327E-05	66.67136	1.676802	108.6065	0.9999997		0.998	
Chromium	1.82425E-05	66.67953	17.01334	191.3648	0.9999947		0.998	
Cobalt	4.657675E-03	66.67263	4.0789	187.1771	0.9999987		0.998	
Copper	6.63515E-05	66.83131	0.7440775	61.50638	0.9999992		0.998	
Iron	7.105422E-06	66.82949	28.4653	196.79	0.9999994		0.998	
Lead	0.0010408	66.66773	15.79522	192.8194	0.9999996		0.998	
Magnesium	6.2012E-07	66.67793	29.66493	198.5626	0.9999861		0.998	
Manganese	1.3181E-04	66.78294	5.101833	183.8585	0.9999854		0.998	
Molybdenum	3.708875E-03	66.67026	0.7107925	165.9436	0.9999985		0.998	
Nickel	2.744075E-03	66.7051	1.252827	159.0785	1		0.998	
Potassium	1.030275E-05	66.71473	2.24882	150.481	0.9999991		0.998	
Selenium	3.9602E-04	66.69509	9.01856	187.1008	0.9999898		0.998	
Silver	3.631875E-05	66.70222	7.329262	179.1262	0.9999902		0.998	
Sodium	4.22905E-05	66.69215	3.103465	170.6018	0.9999906		0.998	
Strontium	1.29175E-03	66.67806	8.35635	191.0248	0.9999958		0.998	
Thallium	6.707425E-04	66.68292	10.73643	193.5142	0.9999988		0.998	
Tin	9.7501E-04	66.68813	2.91099	185.0118	0.9999988		0.998	
Titanium	1.3605E-04	66.66721	37.26894	197.647	0.9999998		0.998	
Vanadium	2.6373E-05	66.67243	1.997198	147.4983	0.9999986		0.998	
Zinc	3.212875E-03	66.66885	64.13936	198.6418	0.9999994		0.998	
Aluminum	1.604375E-05	66.68116	5.37294	190.1334	0.9999999		0.998	
Antimony	7.175175E-04	66.69184	30.24245	197.554	0.9999991		0.998	
Arsenic	3.16855E-04	66.73147	12.91456	197.1221	0.999995		0.998	
Barium	9.79335E-03	66.77413	6.272715	189.761	0.9999943		0.998	
Beryllium	1.34915E-03	66.69947	12.86045	193.1385	0.9999852		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1049001	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/17/2011 9:57:09AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	8.734E-06	66.87927	18.1073	193.6232	0.9999816		0.998	
Cadmium	0.0079035	66.8205	0.376785	139.4126	0.9999606		0.998	
Calcium	1.875327E-05	66.67136	1.676802	108.6065	0.9999997		0.998	
Chromium	1.82425E-05	66.67953	17.01334	191.3648	0.9999947		0.998	
Cobalt	4.657675E-03	66.67263	4.0789	187.1771	0.9999987		0.998	
Copper	6.63515E-05	66.83131	0.7440775	61.50638	0.9999992		0.998	
Iron	7.105422E-06	66.82949	28.4653	196.79	0.9999994		0.998	
Lead	0.0010408	66.66773	15.79522	192.8194	0.9999996		0.998	
Magnesium	6.2012E-07	66.67793	29.66493	198.5626	0.9999861		0.998	
Manganese	1.3181E-04	66.78294	5.101833	183.8585	0.9999854		0.998	
Molybdenum	3.708875E-03	66.67026	0.7107925	165.9436	0.9999985		0.998	
Nickel	2.744075E-03	66.7051	1.252827	159.0785	1		0.998	
Potassium	1.030275E-05	66.71473	2.24882	150.481	0.9999991		0.998	
Selenium	3.9602E-04	66.69509	9.01856	187.1008	0.9999898		0.998	
Silver	3.631875E-05	66.70222	7.329262	179.1262	0.9999902		0.998	
Sodium	4.22905E-05	66.69215	3.103465	170.6018	0.9999906		0.998	
Strontium	1.29175E-03	66.67806	8.35635	191.0248	0.9999958		0.998	
Thallium	6.707425E-04	66.68292	10.73643	193.5142	0.9999988		0.998	
Tin	9.7501E-04	66.68813	2.91099	185.0118	0.9999988		0.998	
Titanium	1.3605E-04	66.66721	37.26894	197.647	0.9999998		0.998	
Vanadium	2.6373E-05	66.67243	1.997198	147.4983	0.9999986		0.998	
Zinc	3.212875E-03	66.66885	64.13936	198.6418	0.9999994		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1054001
Instrument: ME-ICP
Matrix: Water
Calibration Date: 2/22/2011 1:58:37PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.0936E-05	10000	2.0945E-05			500000	2.0886E-05		
Antimony	0	0	100	0.0009493	1000	9.7317E-04					10000	9.6889E-04
Arsenic	0	0	100	0.0004266	1000	4.4433E-04					10000	4.4336E-04
Barium	0	0	50	0.0147024	1000	0.013673	5000	0.0138972				
Beryllium	0	0	100	0.0021563	1000	0.0021555					10000	0.0020937
Boron	0	0	50	0.0000122	1000	1.296E-05					5000	1.2708E-05
Cadmium	0	0	100	0.011707	1000	0.011404					10000	0.010877
Calcium	0	0	1100	3.309091E-05	50000	3.2652E-05					10000	
Chromium	0	0	100	0.0000286	1000	0.0000277					10000	2.771E-05
Cobalt	0	0	100	0.006706	1000	0.0065126					10000	0.0066039
Copper	0	0	100	9.340001E-05	1000	8.828E-05					10000	8.5249E-05
Iron	0	0	5100	1.411177E-05	10000	1.3515E-05			500000	1.28774E-05	10000	
Lead	0	0	100	0.0014715	1000	0.0014499					10000	0.0014575
Magnesium	0	0	5100		50000	1.4228E-06			500000	1.46288E-06	10000	
Manganese	0	0	100	0.0002081	1000	2.0026E-04	10000	1.9303E-04			10000	
Molybdenum	0	0	100	0.0052133	1000	0.0052046					10000	0.0052109
Nickel	0	0	100	0.0040138	1000	0.0038366					10000	0.0038855
Potassium	0	0	1000	1.061E-05	10000	1.1344E-05						
Selenium	0	0	100	0.0005402	1000	5.3637E-04					10000	5.2668E-04
Silver	0	0	20	0.000054	500	5.246E-05	2000	5.292E-05				
Sodium	0	0	1000		50000	4.7136E-05						
Strontium	0	0	100	0.001731	1000	0.001699					10000	0.001674
Thallium	0	0	100	9.168999E-04	1000	9.2071E-04					10000	9.2835E-04
Tin	0	0	50	0.001352	1000	0.0013897					5000	1.40946E-03
Titanium	0	0	100	0.0002074	1000	2.0277E-04					10000	2.0456E-04
Vanadium	0	0	100	0.0000399	1000	3.877E-05					10000	3.8639E-05
Zinc	0	0	100	0.0050474	1000	0.0049394					10000	0.0049363

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1054001
Instrument: ME-ICP
Matrix: Water
Calibration Date: 2/22/2011 1:58:37PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	3.2114E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.4509E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.1713E-05										
Selenium												
Silver												
Sodium	100000	4.6046E-05	500000	4.7704E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1054001	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	2/22/2011 1:58:37PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.569175E-05	66.66687	9.706307	186.2867	1		0.998	
Antimony	7.2284E-04	66.68216	14.02068	191.5419	0.9999996		0.998	
Arsenic	3.285725E-04	66.71267	18.29161	190.2191	0.9999997		0.998	
Barium	1.056815E-02	66.79773	3.379915	169.5276	0.9999865		0.998	
Beryllium	1.601375E-03	66.69181	44.19854	197.2036	0.999992		0.998	
Boron	9.467E-06	66.75022	3.571257	173.7979	0.9999818		0.998	
Cadmium	0.008497	66.78872	0.70766	73.98514	0.9999812		0.998	
Calcium	2.446423E-05	66.68665	2.27562	166.0622	0.9999973		0.998	
Chromium	2.10025E-05	66.69693	838.527	199.8245	0.9999999		0.998	
Cobalt	4.955625E-03	66.68572	7.165852	186.3423	0.9999978		0.998	
Copper	6.673225E-05	66.85697	0.68718	97.05396	0.9999918		0.998	
Iron	1.012604E-05	66.85223	21.47803	195.2787	0.9999991		0.998	
Lead	1.094725E-03	66.67168	942.9621	199.8269	0.9999997		0.998	
Magnesium	1.084145E-06	66.68467	49.5769	198.2555	0.9999931		0.998	
Manganese	1.503475E-04	66.7922	9.793872	190.1395	0.999988		0.998	
Molybdenum	0.0039072	66.66673	2.089665	154.3182	1		0.998	
Nickel	2.933975E-03	66.71529	2.29738	162.8652	0.9999977		0.998	
Potassium	8.41675E-06	66.88881	3.650047	145.8417	0.9999943		0.998	
Selenium	4.008125E-04	66.68177	2.13417	125.9017	0.9999976		0.998	
Silver	3.9845E-05	66.68634	7.62192	181.1163	0.9999938		0.998	
Sodium	3.52215E-05	66.69528	4.787288	153.5418	0.9999504		0.998	
Strontium	0.001276	66.69173	3.143	159.4488	0.9999981		0.998	
Thallium	6.9149E-04	66.67022	8.75287	187.958	0.9999996		0.998	
Tin	1.03779E-03	66.70622	7.024355	185.6469	0.9999932		0.998	
Titanium	1.536825E-04	66.6782	1.816037	144.6927	0.9999991		0.998	
Vanadium	2.932725E-05	66.69461	2.359775	149.2912	0.9999999		0.998	
Zinc	3.730775E-03	66.68104	25.45024	196.2803	1		0.998	

Data for Wet Chemistry Forms

ANALYSIS DATA SHEET

GW0014

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/07/11 11:15
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102062-01
Received: 02/08/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B18024	02/21/11 10:33
18496-25-8	Sulfide		0.690	1.72	3.45	0.69	U N	SM4500S2CF	1B11021	02/11/11 21:02
10-09-3	Alkalinity, Bicarbonate (as CACO3)	141	1.00	1.00	1.00	1		SM2320B	1B09015	02/11/11 21:55
16887-00-6	Chloride	24.8	0.170	0.330	1.00	1	M	E300.0	1B08009	02/08/11 13:21
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B09015	02/11/11 21:55
14797-55-8	Nitrate as N	0.114	0.0330	0.100	0.200	1	J	E300.0	1B08009	02/08/11 13:21
14808-79-8	Sulfate as SO4	39.3	0.330	1.00	2.00	1		E300.0	1B08009	02/08/11 13:21

ANALYSIS DATA SHEET

GW0028

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/07/11 15:16
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102062-03
Received: 02/08/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B18024	02/21/11 10:34
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U N	SM4500S2CF	1B11021	02/11/11 21:03
10-09-3	Alkalinity, Bicarbonate (as CACO3)	86.2	1.00	1.00	1.00	1		SM2320B	1B09015	02/11/11 22:02
16887-00-6	Chloride	96.8	0.170	0.330	1.00	1	M	E300.0	1B08009	02/08/11 13:39
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B09015	02/11/11 22:02
14797-55-8	Nitrate as N	4.52	0.0330	0.100	0.200	1		E300.0	1B08009	02/08/11 13:39
14808-79-8	Sulfate as SO4	83.9	0.330	1.00	2.00	1		E300.0	1B08009	02/08/11 13:39

ANALYSIS DATA SHEET

GW0029

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/07/11 15:16
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102062-06
Received: 02/08/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B18024	02/21/11 10:35
18496-25-8	Sulfide		0.690	1.72	3.45	0.69	U N	SM4500S2CF	1B11021	02/11/11 21:04
10-09-3	Alkalinity, Bicarbonate (as CACO3)	86.6	1.00	1.00	1.00	1		SM2320B	1B09015	02/11/11 22:07
16887-00-6	Chloride	96.9	0.170	0.330	1.00	1	M	E300.0	1B08009	02/08/11 13:56
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B09015	02/11/11 22:07
14797-55-8	Nitrate as N	4.52	0.0330	0.100	0.200	1		E300.0	1B08009	02/08/11 13:56
14808-79-8	Sulfate as SO4	84.1	0.330	1.00	2.00	1		E300.0	1B08009	02/08/11 13:56

ANALYSIS DATA SHEET

GW0033

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/04/11 12:55
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102063-01
Received: 02/08/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B18024	02/21/11 10:36
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U N	SM4500S2CF	1B11021	02/11/11 21:04
10-09-3	Alkalinity, Bicarbonate (as CACO3)	107	1.00	1.00	1.00	1	N	SM2320B	1B09015	02/11/11 22:12
16887-00-6	Chloride	7.67	0.170	0.330	1.00	1	M	E300.0	1B08009	02/08/11 11:54
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	UN	SM2320B	1B09015	02/11/11 22:12
14797-55-8	Nitrate as N	0.115	0.0330	0.100	0.200	1	H3 J	E300.0	1B08009	02/08/11 11:54
14808-79-8	Sulfate as SO4	29.0	0.330	1.00	2.00	1		E300.0	1B08009	02/08/11 11:54

ANALYSIS DATA SHEET

GW0025

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/08/11 12:04
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102076-01
Received: 02/09/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B18024	02/21/11 10:37
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U N	SM4500S2CF	1B11021	02/11/11 21:05
10-09-3	Alkalinity, Bicarbonate (as CACO3)	110	1.00	1.00	1.00	1		SM2320B	1B14027	02/15/11 14:53
16887-00-6	Chloride	10.2	0.170	0.330	1.00	1	M	E300.0	1B13003	02/14/11 00:05
13-01-4	Alkalinity, Carbonate (as CACO3)	2.45	1.00	1.00	1.00	1		SM2320B	1B14027	02/15/11 14:53
14797-55-8	Nitrate as N	0.150	0.0330	0.100	0.200	1	J	E300.0	1B09003	02/09/11 14:45
14808-79-8	Sulfate as SO4	30.2	0.330	1.00	2.00	1		E300.0	1B09003	02/09/11 14:45

ANALYSIS DATA SHEET

GW0027

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/08/11 16:08
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102076-03
Received: 02/09/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B18024	02/21/11 10:38
18496-25-8	Sulfide		0.769	1.92	3.85	0.77	U N	SM4500S2CF	1B11021	02/11/11 21:05
10-09-3	Alkalinity, Bicarbonate (as CACO3)	111	1.00	1.00	1.00	1		SM2320B	1B14027	02/15/11 15:00
16887-00-6	Chloride	12.5	0.170	0.330	1.00	1	M	E300.0	1B13003	02/14/11 02:07
13-01-4	Alkalinity, Carbonate (as CACO3)	4.08	1.00	1.00	1.00	1		SM2320B	1B14027	02/15/11 15:00
14797-55-8	Nitrate as N	0.140	0.0330	0.100	0.200	1	J	E300.0	1B09003	02/09/11 15:54
14808-79-8	Sulfate as SO4	46.5	0.330	1.00	2.00	1		E300.0	1B09003	02/09/11 15:54

ANALYSIS DATA SHEET

GW0023

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/10/11 14:48
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102088-01
Received: 02/11/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B18024	02/21/11 10:39
18496-25-8	Sulfide		0.678	1.69	3.39	0.68	U N	SM4500S2CF	1B11021	02/11/11 21:06
10-09-3	Alkalinity, Bicarbonate (as CACO3)	110	1.00	1.00	1.00	1		SM2320B	1B14027	02/15/11 15:47
16887-00-6	Chloride	77.8	0.170	0.330	1.00	1	M	E300.0	1B11025	02/11/11 16:23
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B14027	02/15/11 15:47
14797-55-8	Nitrate as N	0.581	0.0330	0.100	0.200	1		E300.0	1B11025	02/11/11 16:23
14808-79-8	Sulfate as SO4	61.9	0.330	1.00	2.00	1		E300.0	1B11025	02/11/11 16:23

ANALYSIS DATA SHEET

GW0026

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/10/11 10:35
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102088-03
Received: 02/11/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B18024	02/21/11 10:42
18496-25-8	Sulfide		0.690	1.72	3.45	0.69	U N	SM4500S2CF	1B11021	02/11/11 21:07
10-09-3	Alkalinity, Bicarbonate (as CACO3)	203	1.00	1.00	1.00	1		SM2320B	1B14027	02/15/11 13:06
16887-00-6	Chloride	44.6	0.170	0.330	1.00	1	M	E300.0	1B11025	02/11/11 16:40
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B14027	02/15/11 13:06
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	U	E300.0	1B11025	02/11/11 16:40
14808-79-8	Sulfate as SO4	53.8	0.330	1.00	2.00	1		E300.0	1B11025	02/11/11 16:40

ANALYSIS DATA SHEET

GW0024

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/09/11 11:48
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102097-01
Received: 02/10/11 11:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B18024	02/21/11 10:44
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U	SM4500S2CF	1B15011	02/15/11 14:01
10-09-3	Alkalinity, Bicarbonate (as CACO3)	132	1.00	1.00	1.00	1		SM2320B	1B14027	02/15/11 16:09
16887-00-6	Chloride	13.6	0.170	0.330	1.00	1	M	E300.0	1B10003	02/10/11 16:05
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B14027	02/15/11 16:09
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	U	E300.0	1B10003	02/10/11 16:05
14808-79-8	Sulfate as SO4	40.0	0.330	1.00	2.00	1		E300.0	1B10003	02/10/11 16:05

ANALYSIS DATA SHEET

GW0030

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/09/11 14:52
% Solids: 0.00

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1102097-02
Received: 02/10/11 11:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B18024	02/21/11 10:45
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U	SM4500S2CF	1B15011	02/15/11 14:01
10-09-3	Alkalinity, Bicarbonate (as CACO3)	133	1.00	1.00	1.00	1		SM2320B	1B14027	02/15/11 16:20
16887-00-6	Chloride	8.72	0.170	0.330	1.00	1	M	E300.0	1B10003	02/10/11 16:22
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B14027	02/15/11 16:20
14797-55-8	Nitrate as N	0.186	0.0330	0.100	0.200	1	J	E300.0	1B10003	02/10/11 16:22
14808-79-8	Sulfate as SO4	29.4	0.330	1.00	2.00	1		E300.0	1B10003	02/10/11 16:22

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_003
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 0J29503

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
0J29503-ICV1	Chloride	4.800	4.639	96.6	mg/L	+/- 10.00%
	Nitrate as N	3.616	3.531	97.6	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	23.53	98.0	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_003
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B04408

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04408-CCV1	Chloride	25.00	26.66	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.598	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.75	107	mg/L	+/- 10.00%
1B04408-CCV2	Chloride	25.00	26.80	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.620	105	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.96	108	mg/L	+/- 10.00%
1B04408-CCV3	Nitrate as N	2.500	2.626	105	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.98	108	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_003
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B04604

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04604-CCV1	Chloride	25.00	26.58	106	mg/L	+/- 10.00%
1B04604-CCV2	Chloride	25.00	26.63	107	mg/L	+/- 10.00%
1B04604-CCV3	Chloride	25.00	26.65	107	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_003
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B04607

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04607-CCV1	Chloride	25.00	26.68	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.618	105	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.72	107	mg/L	+/- 10.00%
1B04607-CCV2	Chloride	25.00	26.48	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.584	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.38	106	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: kirtland_003
Project: Kirtland AFB 2011
Calibration: 1046003
Sequence: 1B04620

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04620-ICV1	Ammonia as N	2.000	2.187	109	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_003
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B04809

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04809-CCV1	Chloride	25.00	26.62	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.586	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.52	106	mg/L	+/- 10.00%
1B04809-CCV2	Chloride	25.00	26.67	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.610	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.59	106	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: kirtland_003
Project: Kirtland AFB 2011
Calibration: 1046003
Sequence: 1B05214

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B05214-ICV1	Ammonia as N	2.000	2.190	110	mg/L	+/- 10.00%
1B05214-CCV1	Ammonia as N	2.000	2.160	108	mg/L	+/- 10.00%
1B05214-CCV2	Ammonia as N	2.000	2.156	108	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_003
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B05311

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B05311-CCV1	Chloride	25.00	26.68	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.612	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.78	107	mg/L	+/- 10.00%
1B05311-CCV2	Chloride	25.00	26.54	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.609	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.45	106	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 0J29503

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
0J29503-CRL2	Chloride	1.000	0.8730	87.3	mg/L	75 - 125
	Nitrate as N	0.1000	0.09500	95.0	mg/L	75 - 125
	Sulfate as SO4	1.000	1.023	102	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 1B04408

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B04408-CRL1	Chloride	1.000	0.9230	92.3	mg/L	75 - 125
	Nitrate as N	0.1000	0.08900	89.0	mg/L	75 - 125
	Sulfate as SO4	1.000	1.094	109	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 0295001

Sequence: 1B04604

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B04604-CRL1	Chloride	1.000	0.9410	94.1	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 1B04607

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B04607-CRL1	Chloride	1.000	0.9330	93.3	mg/L	75 - 125
	Nitrate as N	0.1000	0.09300	93.0	mg/L	75 - 125
	Sulfate as SO4	1.000	1.076	108	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 1B04809

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B04809-CRL1	Chloride	1.000	0.9200	92.0	mg/L	75 - 125
	Nitrate as N	0.1000	0.1020	102	mg/L	75 - 125
	Sulfate as SO4	1.000	1.153	115	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 1B05311

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B05311-CRL1	Chloride	1.000	0.9290	92.9	mg/L	75 - 125
	Nitrate as N	0.1000	0.1040	104	mg/L	75 - 125
	Sulfate as SO4	1.000	1.141	114	mg/L	75 - 125

METHOD BLANKS

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B08009

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B08009-BLK1	Chloride	-0.104	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B09003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B09003-BLK1	Chloride	-0.0380	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B09015

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B09015-BLK1	Alkalinity, Total (as CACO3)	0.817	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B10003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B10003-BLK1	Chloride	0.0490	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0990	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B11021

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B11021-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B11025

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B11025-BLK1	Chloride	0.0260	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0790	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B13003

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B13003-BLK1	Chloride	0.0670	0.170	0.500	mg/L	U	E300.0

METHOD BLANKS

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B14027

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B14027-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B15011

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B15011-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Batch: 1B18024

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B18024-BLK1	Ammonia as N	-0.0447	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 0J29503
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
0J29503-ICB1	Chloride	0.01700	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.000	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.08000	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04408
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04408-CCB1	Chloride	-0.0210	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0870	0.330	2.00	mg/L	U	E300.0
1B04408-CCB2	Chloride	-0.0270	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1B04408-CCB3	Nitrate as N	0.0180	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.139	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04604
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04604-CCB1	Chloride	0.0490	0.170	0.500	mg/L	U	E300.0
1B04604-CCB2	Chloride	0.0560	0.170	0.500	mg/L	U	E300.0
1B04604-CCB3	Chloride	-0.0200	0.170	0.500	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04607
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04607-CCB1	Chloride	-0.0950	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0920	0.330	2.00	mg/L	U	E300.0
1B04607-CCB2	Chloride	-0.0910	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0910	0.330	2.00	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04620
Calibration: 1046003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04620-ICB1	Ammonia as N	-0.01197	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04809
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04809-CCB1	Chloride	-0.00500	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0960	0.330	2.00	mg/L	U	E300.0
1B04809-CCB2	Chloride	0.207	0.170	0.500	mg/L	J	E300.0
	Nitrate as N	0.0150	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.114	0.330	2.00	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05214
Calibration: 1046003
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B05214-ICB1	Ammonia as N	-0.01063	0.110	0.300	mg/L	U	SM4500NH3BG
1B05214-CCB1	Ammonia as N	-0.0143	0.110	0.300	mg/L	U	SM4500NH3BG
1B05214-CCB2	Ammonia as N	-0.0213	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05311
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B05311-CCB1	Chloride	0.0340	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0810	0.330	2.00	mg/L	U	E300.0
1B05311-CCB2	Chloride	0.0600	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0830	0.330	2.00	mg/L	U	E300.0

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0025

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

Batch: 1B09003

% Solids:

SDG: kirtland_003

Project: Kirtland AFB 2011

Source Sample Name: **1102076-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Nitrate as N	2.778	0.1500	3.071	105		80 - 120
Sulfate as SO4	27.78	30.16	58.94	104		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Nitrate as N	2.778	3.072	105	0.0362		20	80 - 120
Sulfate as SO4	27.78	59.02	104	0.124		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0033

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B09015
% Solids:
Source Sample Name: **1102063-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	107.4	248.1	127	N	75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	247.6	126	0.203	N	20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500S2CF

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B11021

% Solids:

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Sulfide	1307	ND	792.7	60.7	N	75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1307	792.7	60.7	0.00	N	20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0026

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

Batch: 1B11025

% Solids:

SDG: kirtland_003

Project: Kirtland AFB 2011

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	44.58	74.19	107		80 - 120
Nitrate as N	2.778	ND	2.912	105		80 - 120
Sulfate as SO4	27.78	53.84	82.77	104		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	74.22	107	0.0344		20	80 - 120
Nitrate as N	2.778	2.920	105	0.267		20	80 - 120
Sulfate as SO4	27.78	82.79	104	0.0336		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0025

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

Batch: 1B13003

% Solids:

SDG: kirtland_003

Project: Kirtland AFB 2011

Source Sample Name: **1102076-01RE1**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	10.25	40.27	108		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	40.46	109	0.468		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0026

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B14027

% Solids:

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	203.4	311.8	97.5		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	310.5	96.3	0.438		20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0026

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

Batch: 1B18024

% Solids:

SDG: kirtland_003

Project: Kirtland AFB 2011

Source Sample Name: **1102088-03**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Ammonia as N	5.000	ND	4.594	91.9		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Ammonia as N	5.000	4.216	84.3	8.58		20	75 - 125

DUPLICATES

GW0025

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1B09003
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0025

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1B09003-DUP1
Lab Source ID: 1102076-01
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Nitrate as N	20	0.150 J	0.200 J	1.34		E300.0
Sulfate as SO4	20	30.2	30.08	0.259		E300.0

DUPLICATES

GW0026

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1B11025
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0026

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1B11025-DUP1
Lab Source ID: 1102088-03
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	44.6	44.70	0.271		E300.0
Nitrate as N	20	0.200 U	0.200 U			E300.0
Sulfate as SO4	20	53.8	53.96	0.217		E300.0

DUPLICATES

GW0025

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1B13003
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0025

SDG: kirtland_003
Project: Kirtland AFB 2011
Laboratory ID: 1B13003-DUP1
Lab Source ID: 1102076-01RE1
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	10.2	10.26	0.0878		E300.0

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B08009	Laboratory ID:	1B08009-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.232	109	90 - 110
Nitrate as N	3.616	3.759	104	90 - 110
Sulfate as SO4	24.00	25.78	107	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B09003	Laboratory ID:	1B09003-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.211	109	90 - 110
Nitrate as N	3.616	3.745	104	90 - 110
Sulfate as SO4	24.00	25.83	108	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B09015	Laboratory ID:	1B09015-BS1
Preparation:	pNone	Initial/Final:	5 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	1000	1060	106	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B10003	Laboratory ID:	1B10003-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.259	110	90 - 110
Nitrate as N	3.616	3.749	104	90 - 110
Sulfate as SO4	24.00	25.68	107	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B11021	Laboratory ID:	1B11021-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1307	1133	86.7	80 - 120

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B11025	Laboratory ID:	1B11025-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.272	110	90 - 110
Nitrate as N	3.616	3.760	104	90 - 110
Sulfate as SO4	24.00	25.74	107	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B13003	Laboratory ID:	1B13003-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.294	110	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B14027	Laboratory ID:	1B14027-BS1
Preparation:	pNone	Initial/Final:	25 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	200.0	208.3	104	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15011	Laboratory ID:	1B15011-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1307	1067	81.6	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1307	1050	80.4	1.57	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B18024	Laboratory ID:	1B18024-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	4.477	89.5	80 - 120

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_003

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:**

Analyte	MDL	MRL	Units	Method
Alkalinity, Bicarbonate (as CACO3)	1.00	1.00	mg/L	SM2320B
Alkalinity, Carbonate (as CACO3)	1.00	1.00	mg/L	SM2320B
Sulfide	0.800	4.00	mg/L	SM4500S2CF

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_003

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** WC-IC

Analyte	MDL	MRL	Units	Method
Chloride	0.170	0.500	mg/L	E300.0
Nitrate as N	0.0330	0.200	mg/L	E300.0
Sulfate as SO4	0.330	2.00	mg/L	E300.0

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_003

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** WC-Lachat

Analyte	MDL	MRL	Units	Method
Ammonia as N	0.110	0.300	mg/L	SM4500NH3BG

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B08009 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0014	1102062-01	02/08/11 10:44	5.00	5.00
GW0014	1102062-01	02/08/11 10:44	5.00	5.00
GW0028	1102062-03	02/08/11 10:44	5.00	5.00
GW0028	1102062-03	02/08/11 10:44	5.00	5.00
GW0029	1102062-06	02/08/11 10:44	5.00	5.00
GW0029	1102062-06	02/08/11 10:44	5.00	5.00
GW0033	1102063-01	02/08/11 10:44	5.00	5.00
GW0033	1102063-01	02/08/11 10:44	5.00	5.00
Blank	1B08009-BLK1	02/08/11 10:44	5.00	5.00
LCS	1B08009-BS1	02/08/11 10:44	5.00	5.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B09003 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0025	1102076-01	02/09/11 10:09	5.00	5.00
GW0025	1102076-01	02/09/11 10:09	5.00	5.00
GW0027	1102076-03	02/09/11 10:09	5.00	5.00
GW0027	1102076-03	02/09/11 10:09	5.00	5.00
Blank	1B09003-BLK1	02/09/11 10:09	5.00	5.00
LCS	1B09003-BS1	02/09/11 10:09	5.00	5.00
GW0025	1B09003-DUP1	02/09/11 10:09	5.00	5.00
GW0025	1B09003-MS1	02/09/11 10:09	22.50	25.00
GW0025	1B09003-MSD1	02/09/11 10:09	22.50	25.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B09015 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0014	1102062-01	02/09/11 16:23	25.00	25.00
GW0028	1102062-03	02/09/11 16:23	25.00	25.00
GW0029	1102062-06	02/09/11 16:23	25.00	25.00
GW0033	1102063-01	02/09/11 16:23	25.00	25.00
Blank	1B09015-BLK1	02/09/11 16:23	25.00	25.00
LCS	1B09015-BS1	02/09/11 16:23	5.00	25.00
GW0033	1B09015-MS1	02/09/11 16:23	22.50	25.00
GW0033	1B09015-MSD1	02/09/11 16:23	22.50	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B10003 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0024	1102097-01	02/10/11 14:00	5.00	5.00
GW0030	1102097-02	02/10/11 14:00	5.00	5.00
Blank	1B10003-BLK1	02/10/11 14:00	5.00	5.00
LCS	1B10003-BS1	02/10/11 14:00	5.00	5.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B11021 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0014	1102062-01	02/11/11 12:52	290.00	200.00
GW0028	1102062-03	02/11/11 12:52	270.00	200.00
GW0029	1102062-06	02/11/11 12:52	290.00	200.00
GW0033	1102063-01	02/11/11 12:52	270.00	200.00
GW0025	1102076-01	02/11/11 12:52	270.00	200.00
GW0027	1102076-03	02/11/11 12:52	260.00	200.00
GW0023	1102088-01	02/11/11 12:52	295.00	200.00
GW0026	1102088-03	02/11/11 12:52	290.00	200.00
Blank	1B11021-BLK1	02/11/11 12:52	250.00	200.00
LCS	1B11021-BS1	02/11/11 12:52	3.00	250.00
GW0026	1B11021-MS1	02/11/11 12:52	3.00	290.00
GW0026	1B11021-MSD1	02/11/11 12:52	3.00	290.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B11025 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0023	1102088-01	02/11/11 13:29	5.00	5.00
GW0023	1102088-01	02/11/11 13:29	5.00	5.00
GW0026	1102088-03	02/11/11 13:29	5.00	5.00
GW0026	1102088-03	02/11/11 13:29	5.00	5.00
Blank	1B11025-BLK1	02/11/11 13:29	5.00	5.00
LCS	1B11025-BS1	02/11/11 13:29	5.00	5.00
GW0026	1B11025-DUP1	02/11/11 13:29	5.00	5.00
GW0026	1B11025-MS1	02/11/11 13:29	22.50	25.00
GW0026	1B11025-MSD1	02/11/11 13:29	22.50	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B13003 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0025	1102076-01RE1	02/13/11 21:30	5.00	5.00
GW0027	1102076-03RE1	02/13/11 21:30	5.00	5.00
Blank	1B13003-BLK1	02/13/11 21:30	5.00	5.00
LCS	1B13003-BS1	02/13/11 21:30	5.00	5.00
GW0025	1B13003-DUP1	02/13/11 21:30	5.00	5.00
GW0025	1B13003-MS1	02/13/11 21:30	22.50	25.00
GW0025	1B13003-MSD1	02/13/11 21:30	22.50	25.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B14027 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0025	1102076-01	02/15/11 08:00	25.00	25.00
GW0027	1102076-03	02/15/11 08:00	25.00	25.00
GW0023	1102088-01	02/15/11 08:00	25.00	25.00
GW0026	1102088-03	02/15/11 08:00	25.00	25.00
GW0024	1102097-01	02/15/11 08:00	25.00	25.00
GW0030	1102097-02	02/15/11 08:00	25.00	25.00
Blank	1B14027-BLK1	02/15/11 08:00	25.00	25.00
LCS	1B14027-BS1	02/15/11 08:00	25.00	25.00
GW0026	1B14027-MS1	02/15/11 08:00	22.50	25.00
GW0026	1B14027-MSD1	02/15/11 08:00	22.50	25.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B15011 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0024	1102097-01	02/15/11 12:40	270.00	200.00
GW0030	1102097-02	02/15/11 12:40	270.00	200.00
Blank	1B15011-BLK1	02/15/11 12:40	250.00	200.00
LCS	1B15011-BS1	02/15/11 12:40	3.00	250.00
LCS Dup	1B15011-BSD1	02/15/11 12:40	3.00	250.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: kirtland_003

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B18024 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0014	1102062-01	02/18/11 16:49	100.00	100.00
GW0028	1102062-03	02/18/11 16:49	100.00	100.00
GW0029	1102062-06	02/18/11 16:49	100.00	100.00
GW0033	1102063-01	02/18/11 16:49	100.00	100.00
GW0025	1102076-01	02/18/11 16:49	100.00	100.00
GW0027	1102076-03	02/18/11 16:49	100.00	100.00
GW0023	1102088-01	02/18/11 16:49	100.00	100.00
GW0026	1102088-03	02/18/11 16:49	100.00	100.00
GW0024	1102097-01	02/18/11 16:49	100.00	100.00
GW0030	1102097-02	02/18/11 16:49	100.00	100.00
Blank	1B18024-BLK1	02/18/11 16:49	100.00	100.00
LCS	1B18024-BS1	02/18/11 16:49	100.00	100.00
GW0026	1B18024-MS1	02/18/11 16:49	100.00	100.00
GW0026	1B18024-MSD1	02/18/11 16:49	100.00	100.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	1B09015-BS1	021011-003	02/11/11 20:35
Blank	1B09015-BLK1	021011-004	02/11/11 20:48
GW0033	1B09015-MS1	021011-020	02/11/11 22:19
GW0033	1B09015-MSD1	021011-021	02/11/11 22:30
Blank	1B14027-BLK1	021511-004	02/15/11 12:10
GW0026	1B14027-MS1	021511-016	02/15/11 13:17
LCS	1B14027-BS1	021511-003	02/15/11 13:35
GW0026	1B14027-MSD1	021511-017	02/15/11 13:46

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_003

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1B11021-BLK1	021111-003	02/11/11 21:02
LCS	1B11021-BS1	021111-002	02/11/11 21:08
GW0026	1B11021-MSD1	021111-013	02/11/11 21:10
GW0026	1B11021-MS1	021111-012	02/11/11 21:10
Blank	1B15011-BLK1	021511-004	02/15/11 14:00
LCS Dup	1B15011-BSD1	021511-003	02/15/11 14:09
LCS	1B15011-BS1	021511-002	02/15/11 14:09

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0J29503	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0J29503-CAL1	102110curve-057	10/21/10 10:28
Cal Standard	0J29503-CAL2	102110curve-058	10/21/10 10:45
Cal Standard	0J29503-CAL3	102110curve-059	10/21/10 11:02
Cal Standard	0J29503-CAL4	102110curve-060	10/21/10 11:20
Cal Standard	0J29503-CAL5	102110curve-061	10/21/10 11:37
Cal Standard	0J29503-CAL6	102110curve-062	10/21/10 11:55
Cal Standard	0J29503-CAL7	102110curve-063	10/21/10 12:12
Cal Standard	0J29503-CAL8	102110curve-064	10/21/10 12:29
Initial Cal Check	0J29503-ICV1	102110curve-065	10/21/10 12:47
Initial Cal Blank	0J29503-ICB1	102110curve-066	10/21/10 13:04
Instrument RL Check	0J29503-CRL2	102110curve-068	10/21/10 13:39

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04408
Instrument: WC-IC
Calibration: 0295001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04408-CCV1	020911-002	02/09/11 10:41
Calibration Blank	1B04408-CCB1	020911-003	02/09/11 10:58
Instrument RL Check	1B04408-CRL1	020911-004	02/09/11 11:16
LCS	1B09003-BS1	020911-005	02/09/11 11:33
Blank	1B09003-BLK1	020911-006	02/09/11 11:50
Calibration Check	1B04408-CCV2	020911-012	02/09/11 13:35
Calibration Blank	1B04408-CCB2	020911-013	02/09/11 13:52
GW0025	1102076-01	020911-016	02/09/11 14:45
GW0025	1B09003-MS1	020911-017	02/09/11 15:02
GW0025	1B09003-MSD1	020911-018	02/09/11 15:19
GW0025	1B09003-DUP1	020911-019	02/09/11 15:37
GW0027	1102076-03	020911-020	02/09/11 15:54
Calibration Check	1B04408-CCV3	020911-024	02/09/11 17:04
Calibration Blank	1B04408-CCB3	020911-025	02/09/11 17:21

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04604
Instrument: WC-IC
Calibration: 0295001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04604-CCV1	021311-002	02/13/11 21:46
Calibration Blank	1B04604-CCB1	021311-003	02/13/11 22:03
Instrument RL Check	1B04604-CRL1	021311-004	02/13/11 22:20
LCS	1B13003-BS1	021311-005	02/13/11 22:38
Blank	1B13003-BLK1	021311-006	02/13/11 22:55
GW0025	1102076-01RE1	021311-010	02/14/11 00:05
GW0025	1B13003-MS1	021311-011	02/14/11 00:22
GW0025	1B13003-MSD1	021311-012	02/14/11 00:40
GW0025	1B13003-DUP1	021311-013	02/14/11 00:57
Calibration Check	1B04604-CCV2	021311-014	02/14/11 01:15
Calibration Blank	1B04604-CCB2	021311-015	02/14/11 01:32
GW0027	1102076-03RE1	021311-017	02/14/11 02:07
Calibration Check	1B04604-CCV3	021311-020	02/14/11 02:59
Calibration Blank	1B04604-CCB3	021311-021	02/14/11 03:16

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04607	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04607-CCV1	020811-002	02/08/11 11:20
Calibration Blank	1B04607-CCB1	020811-003	02/08/11 11:37
GW0033	1102063-01	020811-004	02/08/11 11:54
Instrument RL Check	1B04607-CRL1	020811-005	02/08/11 12:12
LCS	1B08009-BS1	020811-006	02/08/11 12:29
Blank	1B08009-BLK1	020811-007	02/08/11 12:47
GW0014	1102062-01	020811-009	02/08/11 13:21
GW0028	1102062-03	020811-010	02/08/11 13:39
GW0029	1102062-06	020811-011	02/08/11 13:56
Calibration Check	1B04607-CCV2	020811-012	02/08/11 14:14
Calibration Blank	1B04607-CCB2	020811-013	02/08/11 14:31

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04620
Instrument: WC-Lachat
Calibration: 1046003

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B04620-CAL1	M_2-15-2011_04-19-55PM-00	02/15/11 16:21
Cal Standard	1B04620-CAL2	M_2-15-2011_04-19-55PM-00	02/15/11 16:22
Cal Standard	1B04620-CAL3	M_2-15-2011_04-19-55PM-00	02/15/11 16:23
Cal Standard	1B04620-CAL4	M_2-15-2011_04-19-55PM-00	02/15/11 16:24
Cal Standard	1B04620-CAL5	M_2-15-2011_04-19-55PM-00	02/15/11 16:25
Cal Standard	1B04620-CAL7	M_2-15-2011_04-19-55PM-00	02/15/11 16:26
Cal Standard	1B04620-CAL6	M_2-15-2011_04-19-55PM-00	02/15/11 16:26
Cal Standard	1B04620-CAL8	M_2-15-2011_04-19-55PM-00	02/15/11 16:27
Initial Cal Check	1B04620-ICV1	M_2-15-2011_04-19-55PM-00	02/15/11 16:28
Initial Cal Blank	1B04620-ICB1	M_2-15-2011_04-19-55PM-01	02/15/11 16:29

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04809	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04809-CCV1	021011-002	02/10/11 14:03
Calibration Blank	1B04809-CCB1	021011-003	02/10/11 14:21
Instrument RL Check	1B04809-CRL1	021011-004	02/10/11 14:38
LCS	1B10003-BS1	021011-005	02/10/11 14:55
Blank	1B10003-BLK1	021011-006	02/10/11 15:13
GW0024	1102097-01	021011-009	02/10/11 16:05
GW0030	1102097-02	021011-010	02/10/11 16:22
Calibration Check	1B04809-CCV2	021011-013	02/10/11 17:15
Calibration Blank	1B04809-CCB2	021011-014	02/10/11 17:32

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_003
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05214
Instrument: WC-Lachat
Calibration: 1046003

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B05214-CAL1	M_2-21-2011_10-17-54AM-00	02/21/11 10:19
Cal Standard	1B05214-CAL2	M_2-21-2011_10-17-54AM-00	02/21/11 10:20
Cal Standard	1B05214-CAL3	M_2-21-2011_10-17-54AM-00	02/21/11 10:21
Cal Standard	1B05214-CAL4	M_2-21-2011_10-17-54AM-00	02/21/11 10:22
Cal Standard	1B05214-CAL5	M_2-21-2011_10-17-54AM-00	02/21/11 10:23
Cal Standard	1B05214-CAL6	M_2-21-2011_10-17-54AM-00	02/21/11 10:24
Cal Standard	1B05214-CAL7	M_2-21-2011_10-17-54AM-00	02/21/11 10:24
Cal Standard	1B05214-CAL8	M_2-21-2011_10-17-54AM-00	02/21/11 10:25
Initial Cal Check	1B05214-ICV1	M_2-21-2011_10-17-54AM-00	02/21/11 10:26
Initial Cal Blank	1B05214-ICB1	M_2-21-2011_10-17-54AM-01	02/21/11 10:27
Blank	1B18024-BLK1	M_2-21-2011_10-17-54AM-01	02/21/11 10:28
LCS	1B18024-BS1	M_2-21-2011_10-17-54AM-01	02/21/11 10:29
GW0014	1102062-01	M_2-21-2011_10-17-54AM-01	02/21/11 10:33
GW0028	1102062-03	M_2-21-2011_10-17-54AM-01	02/21/11 10:34
GW0029	1102062-06	M_2-21-2011_10-17-54AM-01	02/21/11 10:35
GW0033	1102063-01	M_2-21-2011_10-17-54AM-01	02/21/11 10:36
GW0025	1102076-01	M_2-21-2011_10-17-54AM-02	02/21/11 10:37
GW0027	1102076-03	M_2-21-2011_10-17-54AM-02	02/21/11 10:38
GW0023	1102088-01	M_2-21-2011_10-17-54AM-02	02/21/11 10:39
Calibration Check	1B05214-CCV1	M_2-21-2011_10-17-54AM-02	02/21/11 10:40
Calibration Blank	1B05214-CCB1	M_2-21-2011_10-17-54AM-02	02/21/11 10:41
GW0026	1102088-03	M_2-21-2011_10-17-54AM-02	02/21/11 10:42
GW0026	1B18024-MS1	M_2-21-2011_10-17-54AM-02	02/21/11 10:43
GW0024	1102097-01	M_2-21-2011_10-17-54AM-02	02/21/11 10:44
GW0026	1B18024-MSD1	M_2-21-2011_10-17-54AM-02	02/21/11 10:44
GW0030	1102097-02	M_2-21-2011_10-17-54AM-02	02/21/11 10:45
Calibration Check	1B05214-CCV2	M_2-21-2011_10-17-54AM-03	02/21/11 10:48
Calibration Blank	1B05214-CCB2	M_2-21-2011_10-17-54AM-03	02/21/11 10:49

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_003
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05311	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B05311-CCV1	021111-002	02/11/11 14:55
Calibration Blank	1B05311-CCB1	021111-003	02/11/11 15:13
Instrument RL Check	1B05311-CRL1	021111-004	02/11/11 15:30
LCS	1B11025-BS1	021111-005	02/11/11 15:48
Blank	1B11025-BLK1	021111-006	02/11/11 16:05
GW0023	1102088-01	021111-007	02/11/11 16:23
GW0026	1102088-03	021111-008	02/11/11 16:40
GW0026	1B11025-MS1	021111-009	02/11/11 16:57
GW0026	1B11025-MSD1	021111-010	02/11/11 17:15
GW0026	1B11025-DUP1	021111-011	02/11/11 17:32
Calibration Check	1B05311-CCV2	021111-014	02/11/11 18:24
Calibration Blank	1B05311-CCB2	021111-015	02/11/11 18:42

ANALYTICAL SUMMARY DATA PACKAGE
SDG # KIRTLAND_004

PROJECT NAME: KIRTLAND AFB 2011
PROJECT LOCATION: ALBUQUERQUE, NEW MEXICO

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Original Report Date: March 11, 2011
Report Revision #: N/A
Revision Date: N/A
Total # of Pages: 640

THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Technical Lab Director, Mr. Rick Davis, is responsible for the final data produced and reported. His signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.

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Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

As per the client's request, PAH by SW8270C was added for samples GW0036 and GW0037. CoC indicates sample GW0039-R to be analyzed for PAH by SW8310 but as per client, sample should be analyzed by SW8270C.

Changes to the Revision
This is an original submittal of the final report package.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8260B:
The surrogate Dibromofluoromethane exceeded criteria with a positive bias in sample 1102174-09.

The method blanks 1B19002-BLK1, 1B21012-BLK1, 1B22009, and 1B24021-BLK1 have positive results for Hexachlorobutadiene. The method blank 1B17009-BLK1 has

positive results for Acetone and Hexachlorobutadiene.

The matrix spikes associated to sample 1102166-01 exceeded criteria with a positive bias for Bromodichloromethane, Dichlorodifluoromethane, 1,2-Dichloroethane, 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, and Trichlorofluoromethane and with a negative bias for Toluene.

The initial calibration verification 1B04204-ICV1 exceeded criteria with a positive bias for Dichlorodifluoromethane.

The batch spikes associated to batches 1B17009, 1B19002, and 1B22009 exceeded criteria with a positive bias for Bromodichloromethane, Dichlorodifluoromethane, and 1,1,1,2-Tetrachloroethane. The batch spikes associated to batch 1B18011 exceeded criteria with a positive bias for Bromodichloromethane, Bromoform, and 1,2-Dichloroethane. The batch spikesre associated to batch 1B21012 exceeded relative percent difference criteria for Bromomethane. The batch spike associated to batch 1B23016 exceeded criteria with a positive bias for Bromodichloromethane, Bromoform, and 1,2-Dichloroethane. The batch spikes associated to batch 1B24021 exceeded criteria with a positive bias for Bromofrom and exceeded criteria with a negative bias for Chloroethane, Chloromethane, Dichlorodifluoromethane, and Vinyl Chloride. Due to a standard issue with the gas standard, the gas compounds exceeded criteria with a low bias. A new standard was prepared and analyzed the next day with all criteria in control. The batch spike duplicate 1B18011-BSD1 was analyzed 12 hours 14 minutes after the associated tune standard. The batch spike duplicate 1B21012-BSD1 was analyzed 12 hours 8 minutes after the associated tune standard. The batch spike duplicate 1B23016-BSD1 was analyzed 12 hours 3 minutes after the associated tune standard.

The continuing calibration verifications exceeded criteria in 1B05006-CCV1 with a positive bias for Bromodichloromethane, Carbon Tetrachloride, Dichlorodifluoromethane, 1,11,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, and Trichlorofluoromethane and with a negative bias for Bromomethane, in 1B05201-CCV1 with a positive bias for Acetone, Bromodichloromethane, 2-Butanone, Dichlorodifluoromethane, 4-Methyl-2-pentanone, and 1,1,1,2-Tetrachloroethane and with a negative bias for Bromomethane, in 1B05303-CCV1 with a positive bias for Bromoform, Carbon Tetrachloride, 1,,2-Dichloroethane, 2,2-Dichloropropane, Hexachlorobutadiene, 1,1,1-Tricloroethane, and Trichlorofluoromethane, in 1B05312-CCV1 with a positive bias for Acetone and 4-Methyl-2-pentanone, in 1B05401-CCV1 with a positive bias for Acetone, Bromodichloromethane, 2-Butanone, Carbon Tetrachloride, Dichlorodifluoromethane, 2-Hexanone, 4-Methyl-2-pentanone, 1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, and Trichlorofluoromethane and with a negative bias for Bromomethane, in 1B05514-CCV1 with a positive bias for Acetone, Bromodichloromethane, Bromoform, 2-Butanone, Carbon Tetrachloride, 1,2-Dibromo-3-chloropropane, Dichorodifluoromethane, 1,2-Dichloroethane, 2,2-Dichloropropane, 1,1-Dichloropropene, Cis-1,3-Dichloropropene, Hexachlorobutadiene, 4-Methyl-2-pentanone, 1,1,1-Trichloroethane, and Trichlorofluoromethane, in 1B05611-CCV1 with a positive bias for Acetone, Bromoform,

2-Butanone, Carbon Tetrachloride, 1,2-Dichloroethane, Hexachlorobutadiene, 2-Hexanone, 4-Methyl-2-pentanone, 1,1,1-Trichloroethane, and Trichlorofluoromethane, and in 1B05612-CCV1 with a positive bias for Acetone, 2-Butanone, Carbon Tetrachloride, Hexachlorobutadiene, 2-Hexanone, 4-Methyl-2-pentanone, 1,1,1-Trichloroethane, and Trichlorofluoromethane.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8270C PAH:
Samples 1102174-05 and -07 were requested for extraction by the client 8 days after sampling with an EPA recommended holding time of 7 days.

The continuing calibration verifications 1B05614-CCV1 and 1B05615-CCV1 exceeded criteria with a positive bias for Benzo(a)anthracene, Chrysene, and Terphenyl-d14.

The method blank 1B18006-BLK1 has positive results for 1-Methylnaphthalene, 2-Methylnaphthalene, and Naphthalene.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8015B GRO:
The surrogate Bromofluorobenzene exceeded criteria with a positive bias in 1B22015-MS1 and –MSD1.

The matrix spikes associated to sample 1102166-01 exceeded criteria for Gasoline Range Organics; however, the parent sample concentration was greater than 4 times the amount spiked.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8015B DRO:
The matrix spikes associated to sample 1102166-01 exceeded criteria for Diesel Range Organics; however, the parent sample concentration was greater than 4 times the amount spiked.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8011 EDB:
The matrix spikes associated to sample 1102166-01 exceeded criteria for 1,2-Dibromomethane; however, the parent sample concentration was greater than 4 times the amount spiked.

No additional anomalies or deviations are noted and the proper data qualifiers have

been applied.

SW6010B:
Samples 1102166-03 and 1102174-09 are qualified with an M for Lead to indicate that the DL was raised due to interference.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Wet Chemistry:
Due to an instrument malfunction, samples 1102174-05, -07, and -09 were analyzed after the EPA recommended holding time for Nitrate as N. Client was notified and requested that the samples be reported with the proper qualifiers.

Samples 1102135-01, -03, -05, 1102141-01, 1102166-01, and -03 are qualified with an M for Chloride to indicate that the LOQ was raised due to interference.

The matrix spikes associated to sample 1102166-01 exceeded criteria with a negative bias for Sulfide. The matrix spike duplicate associated to sample 1102166-01 exceeded criteria with a negative bias for Alkalinity, Total (as CACO3).

The continuing calibration blank 1B04712-CCB3 has a positive result for Chloride.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Data Qualifiers
As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix. For DoD QSM 4.1 reporting purposes, this definition is also applied to the reported Detection Limit (DL).

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM 4.1 revisions as the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

LOQ: The Limit of Quantitation is the minimum level, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. This term is further clarified within the DoD QSM 4.1 as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

*****: An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL.

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL has been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the DL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:

The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

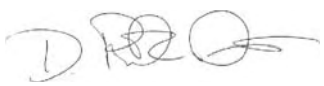
BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "**RE"** implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity is authorized to sign this Statement of Data Authenticity.



_____
Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

Sample Receipt Information

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW013

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 14 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182200

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification:
Non-hazard X Flammable __ Skin Irritant __ Poison B __ Radiological __ Unknown __

Sample Disposal:
Return to Client __ Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation) Mark Lyon Shaw Environmental Date: 2/14/11 Time: 1830
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) Date: 2-15-11 Time: 08:45

1.0 °C

Comments:

1102135

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0019	KAFB10618-WG-GW0019-REG	14 FEB 2011	16:45	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0019	KAFB10618-WG-GW0019-REG	14 FEB 2011	16:45	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0019	KAFB10618-WG-GW0019-REG	14 FEB 2011	16:45	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0019	KAFB10618-WG-GW0019-REG	14 FEB 2011	16:45	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0019	KAFB10618-WG-GW0019-REG	14 FEB 2011	16:45	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-02 GW0019	KAFB10618-WG-GW0019-REG	14 FEB 2011	16:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		

Shaw™

Shaw E & I, Inc.

1102135

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW013

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-02	GW0019	KAFB10618-WG-GW0019-REG	14 FEB 2011	16:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-01	GW0019	KAFB10618-WG-GW0019-REG	14 FEB 2011	16:45	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0019	KAFB10618-WG-GW0019-REG	14 FEB 2011	16:45	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0019	KAFB10618-WG-GW0019-REG	14 FEB 2011	16:45	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
-03	GW0020	KAFB10618-WG-GW0020-FD	14 FEB 2011	16:45	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0020	KAFB10618-WG-GW0020-FD	14 FEB 2011	16:45	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0020	KAFB10618-WG-GW0020-FD	14 FEB 2011	16:45	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0020	KAFB10618-WG-GW0020-FD	14 FEB 2011	16:45	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0020	KAFB10618-WG-GW0020-FD	14 FEB 2011	16:45	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-04	GW0020	KAFB10618-WG-GW0020-FD	14 FEB 2011	16:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0020	KAFB10618-WG-GW0020-FD	14 FEB 2011	16:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-03	GW0020	KAFB10618-WG-GW0020-FD	14 FEB 2011	16:45	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0020	KAFB10618-WG-GW0020-FD	14 FEB 2011	16:45	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0020	KAFB10618-WG-GW0020-FD	14 FEB 2011	16:45	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
-05	GW0021	KAFB10619-WG-GW0021-REG	14 FEB 2011	11:17	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0021	KAFB10619-WG-GW0021-REG	14 FEB 2011	11:17	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0021	KAFB10619-WG-GW0021-REG	14 FEB 2011	11:17	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0021	KAFB10619-WG-GW0021-REG	14 FEB 2011	11:17	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0021	KAFB10619-WG-GW0021-REG	14 FEB 2011	11:17	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-06	~~GW0021~~	~~KAFB10619-WG-GW0021-REG~~	~~14 FEB 2011~~	~~11:17~~	~~250 mL HDPE~~	~~1~~	~~HNO3<pH 2~~	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0021	KAFB10619-WG-GW0021-REG	14 FEB 2011	11:17	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-05	GW0021	KAFB10619-WG-GW0021-REG	14 FEB 2011	11:17	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0021	KAFB10619-WG-GW0021-REG	14 FEB 2011	11:17	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0021	KAFB10619-WG-GW0021-REG	14 FEB 2011	11:17	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
-07	GW8013-TB	FIELDQC-BW-GW8013-TB-TB	14 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 110235 Number of Coolers: 1 of 1

Client: Shaw E+I INC. Project: Kirtland AFB

Date/Time Received: 2-15-11 08:45 Date cooler(s) opened: 2-15-11

Opened By (print): Russ Townsend (signature): Russ Townsend

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 2200

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 2-14-11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.3 °C Correction Factor: -0.3 °C Final Value: 1.0 °C

Dates samples were logged-in: 2-15-11

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	(Yes)	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	(N/A)
17. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
18. Was headspace present in any included VOA vials?	Yes	(No)	N/A

If Non-Conformance issues were present, list by sample ID: _____

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW014

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 15 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872642681622

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions: LAB TO FILTER 0.45 UM DISS METALS FRACTION FOR GW8002-RB

Possible Hazard Indentification: Radiological
Non-hazard X Flammable Skin Irritant Poison B Unknown

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation) Mark Lyon Shaw Environmental	Date: 2-15-11 Time: 1730	1. Received By (Signature/Affiliation)	Date: 2-16-11 Time: 0830
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: Time:

Comments:

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0022	KAFB10620-WG-GW0022-REG	15 FEB 2011	13:59	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0022	KAFB10620-WG-GW0022-REG	15 FEB 2011	13:59	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0022	KAFB10620-WG-GW0022-REG	15 FEB 2011	13:59	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0022	KAFB10620-WG-GW0022-REG	15 FEB 2011	13:59	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0022	KAFB10620-WG-GW0022-REG	15 FEB 2011	13:59	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0022	KAFB10620-WG-GW0022-REG	15 FEB 2011	13:59	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW014

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
GW0022	KAFB10620-WG-GW0022-REG	15 FEB 2011	13:59	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
GW0022	KAFB10620-WG-GW0022-REG	15 FEB 2011	13:59	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0022	KAFB10620-WG-GW0022-REG	15 FEB 2011	13:59	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0022	KAFB10620-WG-GW0022-REG	15 FEB 2011	13:59	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0039-R	ST106-VA2-WG-GW0039-R-REG	15 FEB 2011	10:30	1000 mL A GLASS	2	None except cool to 4 C	PAHs by SW846 8310			N		
GW8002-AB	FIELDQC-BW-GW8002-AB-AB	15 FEB 2011	10:30	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW8002-RB	FIELDQC-BW-GW8002-RB-ER	15 FEB 2011	14:50	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW8002-RB	FIELDQC-BW-GW8002-RB-ER	15 FEB 2011	14:50	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW8002-RB	FIELDQC-BW-GW8002-RB-ER	15 FEB 2011	14:50	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW8002-RB	FIELDQC-BW-GW8002-RB-ER	15 FEB 2011	14:50	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW8002-RB	FIELDQC-BW-GW8002-RB-ER	15 FEB 2011	14:50	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW8014-TB	FIELDQC-BW-GW8014-TB-TB	15 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

KIRTLAND_004 Summ Package

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: _____ Number of Coolers: 1 of 1

Client: SHAW E+I INC Project: Kirtland AFB

Date/Time Received: 2.16.11 08:30 Date cooler(s) opened: 2.16.11

Opened By (print): Russ Townsend (signature): [signature]

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 1622

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 2.15.11 Seal Initials: ML

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 2.4 °C Correction Factor: -0.3 °C Final Value: 2.1 °C

Dates samples were logged-in:

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	Yes	(No)	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	Yes	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	(N/A)
17. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
18. Was headspace present in any included VOA vials?	Yes	(No)	N/A

2 VOC Broken GW0022

If Non-Conformance issues were present, list by sample ID: _____

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW015

17

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 16 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872642681633

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification:
Non-hazard X Flammable ___ Skin Irritant ___ Poison B ___ Radiological ___ Unknown ___

Sample Disposal:
Return to Client ___ Disposal by Lab X Archive ___ (mos.)

1. Relinquished By (Signature/Affiliation) Mark Lyon Shaw Environmental	Date: 2-16-11 Time: 1800	1. Received By (Signature/Affiliation)	Date: Time:
2. Relinquished By (Signature/Affiliation)	Date: Time:	2. Received By (Signature/Affiliation)	Date: Time:
3. Relinquished By (Signature/Affiliation)	Date: Time:	3. Received By (Signature/Affiliation)	Date: 2-17-11 Time: 08:45

Comments: POSSIBLE HIGH CONCENTRATIONS DISSOLVED ORGANICS

1102166

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0011	KAFB10610-WG-GW0011-REG	16 FEB 2011	10:45	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0011	KAFB10610-WG-GW0011-REG	16 FEB 2011	10:45	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0011	KAFB10610-WG-GW0011-REG	16 FEB 2011	10:45	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0011	KAFB10610-WG-GW0011-REG	16 FEB 2011	10:45	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
-02 GW0011	KAFB10610-WG-GW0011-REG	16 FEB 2011	10:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-01 GW0011	KAFB10610-WG-GW0011-REG	16 FEB 2011	10:45	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0011	KAFB10610-WG-GW0011-REG	16 FEB 2011	10:45	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
GW0011	KAFB10610-WG-GW0011-REG	16 FEB 2011	10:45	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA			N		

KIRTLAND_004 Summ Package

Shaw™

Shaw E & I, Inc.

1102166

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW015

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
							300, Alkalinity by SM2320B					
-02 GW0011	KAFB10610-WG-GW0011-REG	16 FEB 2011	10:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-01 GW0011	KAFB10610-WG-GW0011-REG	16 FEB 2011	10:45	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0011-MS	KAFB10610-WG-GW0011-MS-MS	16 FEB 2011	10:45	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0011-MS	KAFB10610-WG-GW0011-MS-MS	16 FEB 2011	10:45	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0011-MS	KAFB10610-WG-GW0011-MS-MS	16 FEB 2011	10:45	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0011-MS	KAFB10610-WG-GW0011-MS-MS	16 FEB 2011	10:45	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0011-MS	KAFB10610-WG-GW0011-MS-MS	16 FEB 2011	10:45	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0011-MS	KAFB10610-WG-GW0011-MS-MS	16 FEB 2011	10:45	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0011-MS	KAFB10610-WG-GW0011-MS-MS	16 FEB 2011	10:45	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
GW0011-MS	KAFB10610-WG-GW0011-MS-MS	16 FEB 2011	10:45	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0011-MS	KAFB10610-WG-GW0011-MS-MS	16 FEB 2011	10:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-02 GW0011-MS	KAFB10610-WG-GW0011-MS-MS	16 FEB 2011	10:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-01 GW0011-MSD	KAFB10610-WG-GW0011-MSD-MSD	16 FEB 2011	10:45	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0011-MSD	KAFB10610-WG-GW0011-MSD-MSD	16 FEB 2011	10:45	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0011-MSD	KAFB10610-WG-GW0011-MSD-MSD	16 FEB 2011	10:45	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0011-MSD	KAFB10610-WG-GW0011-MSD-MSD	16 FEB 2011	10:45	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0011-MSD	KAFB10610-WG-GW0011-MSD-MSD	16 FEB 2011	10:45	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0011-MSD	KAFB10610-WG-GW0011-MSD-MSD	16 FEB 2011	10:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0011-MSD	KAFB10610-WG-GW0011-MSD-MSD	16 FEB 2011	10:45	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
GW0011-MSD	KAFB10610-WG-GW0011-MSD-MSD	16 FEB 2011	10:45	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0011-MSD	KAFB10610-WG-GW0011-MSD-MSD	16 FEB 2011	10:45	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-02 GW0011-MSD	KAFB10610-WG-GW0011-MSD-MSD	16 FEB 2011	10:45	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-03 GW0031	KAFB10628-WG-GW0031-REG	16 FEB 2011	15:05	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0031	KAFB10628-WG-GW0031-REG	16 FEB 2011	15:05	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0031	KAFB10628-WG-GW0031-REG	16 FEB 2011	15:05	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0031	KAFB10628-WG-GW0031-REG	16 FEB 2011	15:05	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		

KIRTLAND_004 Summ Package

Shaw™
Shaw E&I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW015

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01	GW0031	KAFB10628-WG-GW0031-REG	16 FEB 2011	15:05	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-04	GW0031	KAFB10628-WG-GW0031-REG	16 FEB 2011	15:05	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0031	KAFB10628-WG-GW0031-REG	16 FEB 2011	15:05	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-03	GW0031	KAFB10628-WG-GW0031-REG	16 FEB 2011	15:05	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0031	KAFB10628-WG-GW0031-REG	16 FEB 2011	15:05	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0031	KAFB10628-WG-GW0031-REG	16 FEB 2011	15:05	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
-05	GW8015-TB	FIELDQC-BW-GW8015-TB-TB	16 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

KIRTLAND_004 Summ Package

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 102166 Number of Coolers: 1 of 2

Client: SHAW E&I INC Project: KIRTLAND AFB

Date/Time Received: 2.17.11 08:45 Date cooler(s) opened: 2.17.11

Opened By (print): Russ Townsend (signature): _____

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 8407

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 2.16.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.7 °C Correction Factor: -0.3 °C Final Value: 1.4 °C

Dates samples were logged-in: 2-17-11

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	(Yes)	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	(N/A)
17. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
18. Was headspace present in any included VOA vials?	Yes	No	(N/A)

If Non-Conformance issues were present, list by sample ID: _____

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 102116 Number of Coolers: 2 of 2

Client: Shaw E+I Inc Project: Kirtland AFB

Date/Time Received: 2.17.11 08:45 Date cooler(s) opened: 2.17.11

Opened By (print): Russ Townsend (signature): Russ Townsend

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 1633

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 2.16.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: WET DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 2.0 °C Correction Factor: -0.3 °C Final Value: 1.7 °C

Dates samples were logged-in:

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	(Yes)	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	(N/A)
17. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
18. Was headspace present in any included VOA vials?	Yes	(No)	N/A

If Non-Conformance issues were present, list by sample ID: _____

see 1 of 2

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW016
Page 1 of 3

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 17 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872642681644

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification: Radiological
Non-hazard X Flammable Skin Irritant Poison B Unknown

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation) Mark Lyon Shaw Environmental Date: 2-17-11 Time: 1730
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) 5.1°C Date: 2-18-11 Time: 08:48

Comments: HIGH DISSOLVED ORGANICS GW0015 AND GW0010

1102174

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0010	KAFB1069-WG-GW0010-REG	17 FEB 2011	14:56	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0010	KAFB1069-WG-GW0010-REG	17 FEB 2011	14:56	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0010	KAFB1069-WG-GW0010-REG	17 FEB 2011	14:56	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0010	KAFB1069-WG-GW0010-REG	17 FEB 2011	14:56	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
-02 GW0010	KAFB1069-WG-GW0010-REG	17 FEB 2011	14:56	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-01 GW0010	KAFB1069-WG-GW0010-REG	17 FEB 2011	14:56	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0010	KAFB1069-WG-GW0010-REG	17 FEB 2011	14:56	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		

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KIRTLAND_004 Summ Package

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW016

11/02/19

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0010	KAFB1069-WG-GW0010-REG	17 FEB 2011	14:56	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
-02 GW0010	KAFB1069-WG-GW0010-REG	17 FEB 2011	14:56	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-01 GW0010	KAFB1069-WG-GW0010-REG	17 FEB 2011	14:56	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-03 GW0015	KAFB10614-WG-GW0015-REG	17 FEB 2011	11:10	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0015	KAFB10614-WG-GW0015-REG	17 FEB 2011	11:10	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0015	KAFB10614-WG-GW0015-REG	17 FEB 2011	11:10	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0015	KAFB10614-WG-GW0015-REG	17 FEB 2011	11:10	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0015	KAFB10614-WG-GW0015-REG	17 FEB 2011	11:10	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0015	KAFB10614-WG-GW0015-REG	17 FEB 2011	11:10	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0015	KAFB10614-WG-GW0015-REG	17 FEB 2011	11:10	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
GW0015	KAFB10614-WG-GW0015-REG	17 FEB 2011	11:10	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
-04 GW0015	KAFB10614-WG-GW0015-REG	17 FEB 2011	11:10	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
GW0015	KAFB10614-WG-GW0015-REG	17 FEB 2011	11:10	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-05 GW0036	KAFB0015-WG-GW0036-REG	17 FEB 2011	10:18	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0036	KAFB0015-WG-GW0036-REG	17 FEB 2011	10:18	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0036	KAFB0015-WG-GW0036-REG	17 FEB 2011	10:18	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0036	KAFB0015-WG-GW0036-REG	17 FEB 2011	10:18	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
-06 GW0036	KAFB0015-WG-GW0036-REG	17 FEB 2011	10:18	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-05 GW0036	KAFB0015-WG-GW0036-REG	17 FEB 2011	10:18	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0036	KAFB0015-WG-GW0036-REG	17 FEB 2011	10:18	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0036	KAFB0015-WG-GW0036-REG	17 FEB 2011	10:18	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
GW0036	KAFB0015-WG-GW0036-REG	17 FEB 2011	10:18	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
-06 GW0036	KAFB0015-WG-GW0036-REG	17 FEB 2011	10:18	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-07 GW0037	KAFB0016-WG-GW0037-REG	17 FEB 2011	10:50	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0037	KAFB0016-WG-GW0037-REG	17 FEB 2011	10:50	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
GW0037	KAFB0016-WG-GW0037-REG	17 FEB 2011	10:50	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		

Shaw™
Shaw E & J, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW016

11/02/14

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-07	GW0037	KAFB0016-WG-GW0037-REG	17 FEB 2011	10:50	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
-08	GW0037	KAFB0016-WG-GW0037-REG	17 FEB 2011	10:50	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0037	KAFB0016-WG-GW0037-REG	17 FEB 2011	10:50	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-07	GW0037	KAFB0016-WG-GW0037-REG	17 FEB 2011	10:50	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0037	KAFB0016-WG-GW0037-REG	17 FEB 2011	10:50	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
	GW0037	KAFB0016-WG-GW0037-REG	17 FEB 2011	10:50	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
-08	GW0037	KAFB0016-WG-GW0037-REG	17 FEB 2011	10:50	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-09	GW0038	KAFB0016-WG-GW0038-FD	17 FEB 2011	10:50	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
	GW0038	KAFB0016-WG-GW0038-FD	17 FEB 2011	10:50	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0038	KAFB0016-WG-GW0038-FD	17 FEB 2011	10:50	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0038	KAFB0016-WG-GW0038-FD	17 FEB 2011	10:50	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0038	KAFB0016-WG-GW0038-FD	17 FEB 2011	10:50	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
-10	GW0038	KAFB0016-WG-GW0038-FD	17 FEB 2011	10:50	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
	GW0038	KAFB0016-WG-GW0038-FD	17 FEB 2011	10:50	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-04	GW0038	KAFB0016-WG-GW0038-FD	17 FEB 2011	10:50	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0038	KAFB0016-WG-GW0038-FD	17 FEB 2011	10:50	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0038	KAFB0016-WG-GW0038-FD	17 FEB 2011	10:50	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
-11	GW8016-TB	FIELDQC-BW-GW8016-TB-TB	17 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102174 Number of Coolers: 1 of 2

Client: SHAW E&I INC Project: Kirtland AFB

Date/Time Received: 2.18.11 08:45 Date cooler(s) opened: 2.18.11

Opened By (print): Russ Townsend (signature): [signature]

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 1644

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 2.17.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	Yes	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 5.4 °C Correction Factor: -0.3 °C Final Value: 5.1 °C

Dates samples were logged-in: 2-18-11

9. Initial this form to acknowledge login of sample(s): (Name): [signature] (Initial): [signature]

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	Yes	No	(N/A)
16. Was residual chlorine present in any applicable sample containers?	Yes	No	(N/A)
17. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
18. Was headspace present in any included VOA vials?	Yes	No	(N/A)

If Non-Conformance Issues were present, list by sample ID: _____

ph >4 for all SU/Fick
ph <2 for all Metals & Ammonia Samples

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1102179 Number of Coolers: 2 of 2

Client: Shaw E&I INC Project: Kirtland AFB

Date/Time Received: 2.18.11 08:45 Date cooler(s) opened: 2.18.11

Opened By (print): Russ Townsend (signature): Russ Townsend

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 7882

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 2.17.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	Yes	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 3.9 °C Correction Factor: -0.3 °C Final Value: 3.6 °C

Dates samples were logged-in: See 1 of 2

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	(Yes)	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	(N/A)
17. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
18. Was headspace present in any included VOA vials?	Yes	(No)	N/A

If Non-Conformance issues were present, list by sample ID: _____

Kim Kostzer

From: Moss, Pamela J [pamela.moss@shawgrp.com]
Sent: Monday, February 21, 2011 2:42 PM
To: kkostzer@empirlabs.com
Subject: Re: Samples for Kirtland Nitrates Out of hold

Plz run and document instrument malfunction.

From: Kim Kostzer [mailto:kkostzer@empirlabs.com]
Sent: Monday, February 21, 2011 10:20 AM
To: Moss, Pamela J
Cc: sgordon@empirlabs.com <sgordon@empirlabs.com>
Subject: Samples for Kirtland Nitrates Out of hold

Pam,

I was informed this morning that the IC stopped on Friday evening and the samples for 1102174-05 (GW0036), 1102174-07 (GW0037), and 1102174-09 (GW0038). These samples are out of hold for Nitrates. Please let me know how you would like to proceed with these.

Thank you,

Kim

Kim Kostzer
Project Manager
Empirical Laboratories, LLC
"Your National Small Business Partner"
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Main: 615.345.1115 ext. 240 I Toll free: 877.345.1113 I Fax: 866.417.0548

Celebrating over 40 years of excellence, Empirical Laboratories is certified as a Woman-Owned Small Business and a Small Disadvantaged Business. Come visit our website at www.empirlabs.com today.

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Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW017

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 18 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872642681655

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification:
Non-hazard X Flammable Skin Irritant Poison B Radiological Unknown

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation) Date: 2/18/11 Time: 1600
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) J.7°C Date: 2-18-11 Time: 09:30

Comments: HIGH DISSOLVED ORGANICS-GW0009

1102176

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0009	KAFB1068-WG-GW0009-REG	18 FEB 2011	13:06	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0009	KAFB1068-WG-GW0009-REG	18 FEB 2011	13:06	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0009	KAFB1068-WG-GW0009-REG	18 FEB 2011	13:06	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0009	KAFB1068-WG-GW0009-REG	18 FEB 2011	13:06	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0009	KAFB1068-WG-GW0009-REG	18 FEB 2011	13:06	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-02 GW0009	KAFB1068-WG-GW0009-REG	18 FEB 2011	13:06	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		

Shaw
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW017

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-02 GW0009	KAFB1068-WG-GW0009-REG	18 FEB 2011	13:06	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-01 GW0009	KAFB1068-WG-GW0009-REG	18 FEB 2011	13:06	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0009	KAFB1068-WG-GW0009-REG	18 FEB 2011	13:06	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0009	KAFB1068-WG-GW0009-REG	18 FEB 2011	13:06	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
-03 GW8017-TB	FIELDQC-BW-GW8017-TB-TB	18 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

KIRTLAND_004 Summ Package

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 102179 Number of Coolers: 1 of 1

Client: Shaw Project: Kirtland AFB

Date/Time Received: 2/19/11 9:30Am Date cooler(s) opened: 2/19/11

Opened By (print): Reginald Talley (signature): Reginald Talley

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 1655

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 2·18·11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 4.0 °C Correction Factor: -0.3 °C Final Value: 3.7 °C

Dates samples were logged-in: 2-19-11

9. Initial this form to acknowledge login of sample(s): (Name): Chris Donk (Initial): CD

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	(Yes)	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	(N/A)
17. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
18. Was headspace present in any included VOA vials?	Yes	(No)	N/A

If Non-Conformance issues were present, list by sample ID: _____

ph > 9 for all sulfates
ph < 2 for all metals & chromium 5 samples

WORK ORDER

1102135

Printed: 3/11/2011 6:07:33PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 03/14/2011 16:00 (19 day TAT)

Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 02/15/2011 08:45
Date Logged In 02/15/2011 13:12

Samples Received at: **1°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1102135

Printed: 3/11/2011 6:07:33PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102135-01 GW0019 [Water] Sampled 02/14/2011 16:45 US Mountain					
SM4500S2CF	03/08/2011 14:00	15	02/21/2011 17:45		
SW8260B	03/08/2011 14:00	15	02/28/2011 17:45		
SW8015B	03/08/2011 14:00	15	02/28/2011 17:45		
SW8011	03/08/2011 14:00	15	02/28/2011 17:45		
SW8015B	03/08/2011 14:00	15	02/21/2011 17:45		
SM4500NH3BG	03/08/2011 14:00	15	03/14/2011 18:45		
E300.0	03/08/2011 14:00	15	03/14/2011 18:45		Chloride/sulfate
E300.0	03/08/2011 14:00	15	02/16/2011 17:45		Nitrate
SM2320B	03/08/2011 14:00	15	02/28/2011 17:45		
SW6010B	03/08/2011 14:00	15	08/13/2011 18:45		Ca, Pb, K, Na, Mg
1102135-02 GW0019 [Water] Sampled 02/14/2011 16:45 US Mountain					**Field Filtered and Preserved**
SW6010B	03/08/2011 14:00	15	08/13/2011 18:45		Fe & Mn,Field Filtered and Preserved
1102135-03 GW0020 [Water] Sampled 02/14/2011 16:45 US Mountain					
SW8015B	03/08/2011 14:00	15	02/21/2011 17:45		
SW8011	03/08/2011 14:00	15	02/28/2011 17:45		
SW8015B	03/08/2011 14:00	15	02/28/2011 17:45		
SW8260B	03/08/2011 14:00	15	02/28/2011 17:45		
SM2320B	03/08/2011 14:00	15	02/28/2011 17:45		
SM4500S2CF	03/08/2011 14:00	15	02/21/2011 17:45		
SM4500NH3BG	03/08/2011 14:00	15	03/14/2011 18:45		
SW6010B	03/08/2011 14:00	15	08/13/2011 18:45		Ca, Pb, K, Na, Mg
E300.0	03/08/2011 14:00	15	03/14/2011 18:45		Chloride/sulfate
E300.0	03/08/2011 14:00	15	02/16/2011 17:45		Nitrate

WORK ORDER

1102135

Printed: 3/11/2011 6:07:33PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102135-04 GW0020 [Water] Sampled 02/14/2011 16:45 US Mountain					**Field Filtered and Preserved**
SW6010B	03/08/2011 14:00	15	08/13/2011 18:45		Fe & Mn,Field Filtered and Preserved
1102135-05 GW0021 [Water] Sampled 02/14/2011 11:17 US Mountain					
SW6010B	03/08/2011 14:00	15	08/13/2011 13:17		Ca, Pb, K, Na, Mg
SW8015B	03/08/2011 14:00	15	02/21/2011 12:17		
SW8011	03/08/2011 14:00	15	02/28/2011 12:17		
SW8015B	03/08/2011 14:00	15	02/28/2011 12:17		
SW8260B	03/08/2011 14:00	15	02/28/2011 12:17		
SM2320B	03/08/2011 14:00	15	02/28/2011 12:17		
SM4500NH3BG	03/08/2011 14:00	15	03/14/2011 13:17		
E300.0	03/08/2011 14:00	15	03/14/2011 13:17		Chloride/sulfate
E300.0	03/08/2011 14:00	15	02/16/2011 12:17		Nitrate
SM4500S2CF	03/08/2011 14:00	15	02/21/2011 12:17		
1102135-06 GW0021 [Water] Sampled 02/14/2011 11:17 US Mountain					**Field Filtered and Preserved**
SW6010B	03/08/2011 14:00	15	08/13/2011 13:17		Fe & Mn,Field Filtered and Preserved
1102135-07 GW8013-TB [Water] Sampled 02/14/2011 08:00 Central					
SW8260B	03/08/2011 14:00	15	02/28/2011 08:00		

WORK ORDER

1102141

Printed: 3/11/2011 6:07:57PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
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Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 03/14/2011 16:00 (18 day TAT)

Received By: Kim Kostzer
Logged In By: Kim Kostzer

Date Received: 02/16/2011 08:30
Date Logged In 02/16/2011 09:29

Samples Received at: **2.1°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1102141

Printed: 3/11/2011 6:07:57PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102141-01 GW0022 [Water] Sampled 02/15/2011 13:59 Central					
SM4500S2CF	03/08/2011 14:00	15	02/22/2011 13:59		
SW8015B	03/08/2011 14:00	15	02/22/2011 13:59		
SW8011	03/08/2011 14:00	15	03/01/2011 13:59		
SW8015B	03/08/2011 14:00	15	03/01/2011 13:59		
SW8260B	03/08/2011 14:00	15	03/01/2011 13:59		
SM2320B	03/08/2011 14:00	15	03/01/2011 13:59		
SM4500NH3BG	03/08/2011 14:00	15	03/15/2011 13:59		
E300.0	03/08/2011 14:00	15	03/15/2011 13:59		Chloride/Sulfate
SW6010B	03/08/2011 14:00	15	08/14/2011 13:59		Ca, Pb, K, Na, Mg
E300.0	03/08/2011 14:00	15	02/17/2011 13:59		Nitrate
1102141-02 GW0039-R [Water] Sampled 02/15/2011 10:30 Central					
SW8270C	03/08/2011 14:00	15	02/22/2011 10:30		
1102141-03 GW8002-AB [Water] Sampled 02/15/2011 10:30 Central					
SW8260B	03/08/2011 14:00	15	03/01/2011 10:30		
1102141-04 GW8002-RB [Water] Sampled 02/15/2011 14:50 Central					
SW6010B	03/08/2011 14:00	15	08/14/2011 14:50		Ca, Pb, K, Na, Mg
SW8015B	03/08/2011 14:00	15	02/22/2011 14:50		
SW8015B	03/08/2011 14:00	15	03/01/2011 14:50		
SW8260B	03/08/2011 14:00	15	03/01/2011 14:50		
1102141-05 GW8002-RB [Water] Sampled 02/15/2011 14:50 Central					
SW6010B	03/08/2011 14:00	15	08/14/2011 14:50		Fe & Mn

WORK ORDER

1102141

Printed: 3/11/2011 6:07:57PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102141-06 GW0022 [Water] Sampled 02/15/2011 13:59 Central					
SW6010B	03/08/2011 14:00	15	08/14/2011 13:59		Fe & Mn
1102141-07 GW8014-TB [Water] Sampled 02/15/2011 08:00 Central					
SW8260B	03/08/2011 14:00	15	03/01/2011 08:00		

WORK ORDER

1102166

Printed: 3/11/2011 6:08:28PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
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Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 03/14/2011 16:00 (17 day TAT)

Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 02/17/2011 08:45
Date Logged In 02/17/2011 15:31

Samples Received at: **1.4°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1102166

Printed: 3/11/2011 6:08:28PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102166-01 GW0011 [Water] Sampled 02/16/2011 10:45 US Mountain					**MS/MSD**
SM4500S2CF	03/08/2011 14:00	15	02/23/2011 11:45		MS/MSD
SW8015B	03/08/2011 14:00	15	02/23/2011 11:45		MS/MSD
SW8011	03/08/2011 14:00	15	03/02/2011 11:45		MS/MSD
SW8015B	03/08/2011 14:00	15	03/02/2011 11:45		MS/MSD
SW8260B	03/08/2011 14:00	15	03/02/2011 11:45		MS/MSD
SM2320B	03/08/2011 14:00	15	03/02/2011 11:45		MS/MSD
SM4500NH3BG	03/08/2011 14:00	15	03/16/2011 12:45		MS/MSD
E300.0	03/08/2011 14:00	15	03/16/2011 12:45		Chloride/sulfate, MS/MSD
SW6010B	03/08/2011 14:00	15	08/15/2011 12:45		Ca, Pb, K, Na, Mg, MS/MSD
E300.0	03/08/2011 14:00	15	02/18/2011 11:45		Nitrate, MS/MSD
1102166-02 GW0011 [Water] Sampled 02/16/2011 10:45 US Mountain					**Field Filtered and Preserved, MS/MSD**
SW6010B	03/08/2011 14:00	15	08/15/2011 12:45		Fe & Mn,Field Filtered and Preserved, MS/MSD
1102166-03 GW0031 [Water] Sampled 02/16/2011 15:05 US Mountain					
SM4500S2CF	03/08/2011 14:00	15	02/23/2011 16:05		
SW6010B	03/08/2011 14:00	15	08/15/2011 17:05		Ca, Pb, K, Na, Mg
SW8015B	03/08/2011 14:00	15	02/23/2011 16:05		
SW8011	03/08/2011 14:00	15	03/02/2011 16:05		
SW8015B	03/08/2011 14:00	15	03/02/2011 16:05		
SW8260B	03/08/2011 14:00	15	03/02/2011 16:05		
SM2320B	03/08/2011 14:00	15	03/02/2011 16:05		
SM4500NH3BG	03/08/2011 14:00	15	03/16/2011 17:05		
E300.0	03/08/2011 14:00	15	03/16/2011 17:05		Chloride/sulfate
E300.0	03/08/2011 14:00	15	02/18/2011 16:05		Nitrate

WORK ORDER

1102166

Printed: 3/11/2011 6:08:28PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102166-04 GW0031 [Water] Sampled 02/16/2011 15:05 US Mountain					**Field Filtered and Preserved**
SW6010B	03/08/2011 14:00	15	08/15/2011 17:05		Fe & Mn,Field Filtered and Preserved
1102166-05 GW8015-TB [Water] Sampled 02/16/2011 08:00 Mountain					
SW8260B	03/08/2011 14:00	15	03/02/2011 09:00		

KIRTLAND_004 Summ Package

WORK ORDER

1102174

Printed: 3/11/2011 6:08:59PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
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Pamela Moss
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Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 03/14/2011 16:00 (16 day TAT)

Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 02/18/2011 08:45
Date Logged In 02/18/2011 10:44

Samples Received at: **5.1°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1102174

Printed: 3/11/2011 6:08:59PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102174-01 GW0010 [Water] Sampled 02/17/2011 14:56 US Mountain					
E300.0	03/08/2011 14:00	15	03/17/2011 16:56		Chloride/sulfate
SW6010B	03/08/2011 14:00	15	08/16/2011 16:56		Ca, Pb, K, Na, Mg
E300.0	03/08/2011 14:00	15	02/19/2011 15:56		Nitrate
SM4500NH3BG	03/08/2011 14:00	15	03/17/2011 16:56		
SM2320B	03/08/2011 14:00	15	03/03/2011 15:56		
SW8260B	03/08/2011 14:00	15	03/03/2011 15:56		
SW8015B	03/08/2011 14:00	15	03/03/2011 15:56		
SW8011	03/08/2011 14:00	15	03/03/2011 15:56		
SW8015B	03/08/2011 14:00	15	02/24/2011 15:56		
SM4500S2CF	03/08/2011 14:00	15	02/24/2011 15:56		
1102174-02 GW0010 [Water] Sampled 02/17/2011 14:56 US Mountain					**Field Filtered and Preserved**
SW6010B	03/08/2011 14:00	15	08/16/2011 16:56		Fe & Mn,Field Filtered and Preserved
1102174-03 GW0015 [Water] Sampled 02/17/2011 11:10 US Mountain					
SW8015B	03/08/2011 14:00	15	02/24/2011 12:10		
SM4500NH3BG	03/08/2011 14:00	15	03/17/2011 13:10		
SM4500S2CF	03/08/2011 14:00	15	02/24/2011 12:10		
E300.0	03/08/2011 14:00	15	02/19/2011 12:10		Nitrate
E300.0	03/08/2011 14:00	15	03/17/2011 13:10		Chloride/sulfate
SM2320B	03/08/2011 14:00	15	03/03/2011 12:10		
SW8260B	03/08/2011 14:00	15	03/03/2011 12:10		
SW8011	03/08/2011 14:00	15	03/03/2011 12:10		
SW6010B	03/08/2011 14:00	15	08/16/2011 13:10		Ca, Pb, K, Na, Mg
SW8015B	03/08/2011 14:00	15	03/03/2011 12:10		

WORK ORDER

1102174

Printed: 3/11/2011 6:08:59PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102174-04 GW0015 [Water] Sampled 02/17/2011 11:10 US Mountain					**Field Filtered and Preserved**
SW6010B	03/08/2011 14:00	15	08/16/2011 13:10		Fe & Mn,Field Filtered and Preserved
1102174-05 GW0036 [Water] Sampled 02/17/2011 10:18 US Mountain					
SW8015B	03/08/2011 14:00	15	03/03/2011 11:18		
SW8260B	03/08/2011 14:00	15	03/03/2011 11:18		
SW6010B	03/08/2011 14:00	15	08/16/2011 12:18		Ca, Pb, K, Na, Mg
SW8015B	03/08/2011 14:00	15	02/24/2011 11:18		
SW8011	03/08/2011 14:00	15	03/03/2011 11:18		
SM4500NH3BG	03/08/2011 14:00	15	03/17/2011 12:18		
E300.0	03/08/2011 14:00	15	03/17/2011 12:18		Chloride/sulfate
E300.0	03/08/2011 14:00	15	02/19/2011 11:18		Nitrate
SM4500S2CF	03/08/2011 14:00	15	02/24/2011 11:18		
SW8270C	03/08/2011 14:00	15	02/24/2011 11:18		
SM2320B	03/08/2011 14:00	15	03/03/2011 11:18		
1102174-06 GW0036 [Water] Sampled 02/17/2011 10:18 US Mountain					**Field Filtered and Preserved**
SW6010B	03/08/2011 14:00	15	08/16/2011 12:18		Fe & Mn,Field Filtered and Preserved

WORK ORDER

1102174

Printed: 3/11/2011 6:08:59PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102174-07 GW0037 [Water] Sampled 02/17/2011 10:50 US Mountain					
SW8015B	03/08/2011 14:00	15	03/03/2011 11:50		
E300.0	03/08/2011 14:00	15	03/17/2011 12:50		Chloride/sulfate
SM4500NH3BG	03/08/2011 14:00	15	03/17/2011 12:50		
SM2320B	03/08/2011 14:00	15	03/03/2011 11:50		
SW8260B	03/08/2011 14:00	15	03/03/2011 11:50		
E300.0	03/08/2011 14:00	15	02/19/2011 11:50		Nitrate
SM4500S2CF	03/08/2011 14:00	15	02/24/2011 11:50		
SW8270C	03/08/2011 14:00	15	02/24/2011 11:50		
SW8011	03/08/2011 14:00	15	03/03/2011 11:50		
SW8015B	03/08/2011 14:00	15	02/24/2011 11:50		
SW6010B	03/08/2011 14:00	15	08/16/2011 12:50		Ca, Pb, K, Na, Mg
1102174-08 GW0037 [Water] Sampled 02/17/2011 10:50 US Mountain					**Field Filtered and Preserved**
SW6010B	03/08/2011 14:00	15	08/16/2011 12:50		Fe & Mn,Field Filtered and Preserved

WORK ORDER

1102174

Printed: 3/11/2011 6:08:59PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102174-09 GW0038 [Water] Sampled 02/17/2011 10:50 US Mountain					
SW6010B	03/08/2011 14:00	15	08/16/2011 12:50		Ca, Pb, K, Na, Mg
SW8260B	03/08/2011 14:00	15	03/03/2011 11:50		
SW8015B	03/08/2011 14:00	15	03/03/2011 11:50		
SW8011	03/08/2011 14:00	15	03/03/2011 11:50		
SM2320B	03/08/2011 14:00	15	03/03/2011 11:50		
SM4500S2CF	03/08/2011 14:00	15	02/24/2011 11:50		
E300.0	03/08/2011 14:00	15	02/19/2011 11:50		Nitrate
SW8015B	03/08/2011 14:00	15	02/24/2011 11:50		
SM4500NH3BG	03/08/2011 14:00	15	03/17/2011 12:50		
E300.0	03/08/2011 14:00	15	03/17/2011 12:50		Chloride/sulfate
1102174-10 GW0038 [Water] Sampled 02/17/2011 10:50 US Mountain					**Field Filtered and Preserved**
SW6010B	03/08/2011 14:00	15	08/16/2011 12:50		Fe & Mn,Field Filtered and Preserved
1102174-11 GW8016-TB [Water] Sampled 02/17/2011 08:00 Central					
SW8260B	03/08/2011 14:00	15	03/03/2011 08:00		

WORK ORDER

1102179

Printed: 3/11/2011 6:09:28PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 03/14/2011 16:00 (15 day TAT)

Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 02/19/2011 09:30
Date Logged In 02/19/2011 13:49

Samples Received at: **3.7°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

WORK ORDER

1102179

Printed: 3/11/2011 6:09:28PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102179-01 GW0009 [Water] Sampled 02/18/2011 13:06 US Mountain					
SM4500S2CF	03/09/2011 14:00	15	02/25/2011 14:06		
E300.0	03/09/2011 14:00	15	02/20/2011 14:06		Nitrate
E300.0	03/09/2011 14:00	15	03/18/2011 15:06		Chloride/sulfate
SM4500NH3BG	03/09/2011 14:00	15	03/18/2011 15:06		
SM2320B	03/09/2011 14:00	15	03/04/2011 14:06		
SW8260B	03/09/2011 14:00	15	03/04/2011 14:06		
SW8015B	03/09/2011 14:00	15	03/04/2011 14:06		
SW8011	03/09/2011 14:00	15	03/04/2011 14:06		
SW8015B	03/09/2011 14:00	15	02/25/2011 14:06		
SW6010B	03/09/2011 14:00	15	08/17/2011 15:06		Ca, Pb, K, Na, Mg
1102179-02 GW0009 [Water] Sampled 02/18/2011 13:06 US Mountain					**Field Filtered and Preserved**
SW6010B	03/09/2011 14:00	15	08/17/2011 15:06		Fe & Mn,Field Filtered and Preserved
1102179-03 GW8017-TB [Water] Sampled 02/18/2011 08:00 Central					
SW8260B	03/09/2011 14:00	15	03/04/2011 08:00		

Sample Delivery Group Assignment Form

CLIENT: Shaw E & I (I700)
PROJECT NAME: Kirtland AFB 2011
SDG #: kirtland_004
MATRIX: Water

QC LEVEL: EDD/IVQSM
Report Due: 3/14/2011
Client Sample Count: 29

Sample Type	Sampled	Received	Lab ID	Client ID	E300.0	SM2320B	SM4500NH3BG	SM4500S2CF	SW6010B	SW8011	SW8015B	SW8260B	SW8270C
Client Sample	2/14/2011	2/15/2011	1102135-01	GW0019	X	X	X	X	X	X	X	X	
Client Sample	2/14/2011	2/15/2011	1102135-02	GW0019					Field Filtered and Preserved				
Client Sample	2/14/2011	2/15/2011	1102135-03	GW0020	X	X	X	X	X	X	X	X	
Client Sample	2/14/2011	2/15/2011	1102135-04	GW0020					Field Filtered and Preserved				
Client Sample	2/14/2011	2/15/2011	1102135-05	GW0021	X	X	X	X	X	X	X	X	
Client Sample	2/14/2011	2/15/2011	1102135-06	GW0021					Field Filtered and Preserved				
Client Sample	2/14/2011	2/15/2011	1102135-07	GW8013-TB								X	
Client Sample	2/15/2011	2/16/2011	1102141-01	GW0022	X	X	X	X	X	X	X	X	
Client Sample	2/15/2011	2/16/2011	1102141-02	GW0039-R									X
Client Sample	2/15/2011	2/16/2011	1102141-03	GW8002-AB								X	
Client Sample	2/15/2011	2/16/2011	1102141-04	GW8002-RB					X		X	X	
Client Sample	2/15/2011	2/16/2011	1102141-05	GW8002-RB					X				
Client Sample	2/15/2011	2/16/2011	1102141-06	GW0022					X				
Trip Blank	2/15/2011	2/16/2011	1102141-07	GW8014-TB								X	
Client Sample	2/16/2011	2/17/2011	1102166-01	GW0011	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	MS/MSD	
Client Sample	2/16/2011	2/17/2011	1102166-02	GW0011					Field Filtered and Preserved, MS/MSD				
Client Sample	2/16/2011	2/17/2011	1102166-03	GW0031	X	X	X	X	X	X	X	X	
Client Sample	2/16/2011	2/17/2011	1102166-04	GW0031					Field Filtered and Preserved				
Client Sample	2/16/2011	2/17/2011	1102166-05	GW8015-TB								X	
Client Sample	2/17/2011	2/18/2011	1102174-01	GW0010	X	X	X	X	X	X	X	X	
Client Sample	2/17/2011	2/18/2011	1102174-02	GW0010					Field Filtered and Preserved				
Client Sample	2/17/2011	2/18/2011	1102174-03	GW0015	X	X	X	X	X	X	X	X	
Client Sample	2/17/2011	2/18/2011	1102174-04	GW0015					Field Filtered and Preserved				
Client Sample	2/17/2011	2/18/2011	1102174-05	GW0036	X	X	X	X	X	X	X	X	
Client Sample	2/17/2011	2/18/2011	1102174-06	GW0036					Field Filtered and Preserved				
Client Sample	2/17/2011	2/18/2011	1102174-07	GW0037	X	X	X	X	X	X	X	X	
Client Sample	2/17/2011	2/18/2011	1102174-08	GW0037					Field Filtered and Preserved				
Client Sample	2/17/2011	2/18/2011	1102174-09	GW0038	X	X	X	X	X	X	X	X	
Client Sample	2/17/2011	2/18/2011	1102174-10	GW0038					Field Filtered and Preserved				
Trip Blank	2/17/2011	2/18/2011	1102174-11	GW8016-TB								X	
Ambient Blank	2/18/2011	2/19/2011	1102179-01	GW0009	X	X	X	X	X	X	X	X	
Client Sample	2/18/2011	2/19/2011	1102179-02	GW0009					Field Filtered and Preserved				
Trip Blank	2/18/2011	2/19/2011	1102179-03	GW8017-TB								X	

Data for SW8260B Forms

ANALYSIS DATA SHEET

GW0019

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102135-01RE1 File ID: 0213501.D

Sampled: 02/14/11 16:45 Prepared: 02/19/11 00:00 Analyzed: 02/19/11 15:04

Solids: Preparation: 5030B Dilution: 1

Batch: 1B19002 Sequence: 1B05201 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	9.52	2.50	5.00	10.0	X, J
71-43-2	Benzene	34.9	0.250	0.500	1.00	
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, Q, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene	1.31	0.250	0.500	1.00	
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene	1.87	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	1.11	0.250	0.500	1.00	
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene	1.77	0.250	0.500	1.00	
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)	0.904	0.250	0.500	1.00	J
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Q, X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane	2.29	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene	1.10	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0019

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102135-01RE1 File ID: 0213501.D

Sampled: 02/14/11 16:45 Prepared: 02/19/11 00:00 Analyzed: 02/19/11 15:04

Solids: Preparation: 5030B Dilution: 1

Batch: 1B19002 Sequence: 1B05201 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	23.5	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	17.4	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene	1.33	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	9.79	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	0.307	0.250	0.500	1.00	J
103-65-1	n-Propylbenzene	4.04	0.250	0.500	1.00	
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	X, Q, U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	12.7	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	10.4	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	30.6	0.250	0.500	1.00	
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene	65.7	0.500	1.00	2.00	
95-47-6	o-Xylene	5.22	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.61	105	75 - 120	
Dibromofluoromethane	30.00	32.05	107	85 - 115	
1,2-Dichloroethane-d4	30.00	29.56	98.5	70 - 120	
Toluene-d8	30.00	29.86	99.5	85 - 120	

ANALYSIS DATA SHEET

GW0020

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102135-03 File ID: 0213503.D

Sampled: 02/14/11 16:45 Prepared: 02/17/11 11:15 Analyzed: 02/18/11 06:00

Solids: Preparation: 5030B Dilution: 1

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	4.11	2.50	5.00	10.0	J, B
71-43-2	Benzene	26.8	0.250	0.500	1.00	
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, Q, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene	0.979	0.250	0.500	1.00	J
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene	1.42	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	1.06	0.250	0.500	1.00	
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)	0.793	0.250	0.500	1.00	J
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, Q, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane	2.03	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene	0.735	0.250	0.500	1.00	J
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0020

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102135-03 File ID: 0213503.D

Sampled: 02/14/11 16:45 Prepared: 02/17/11 11:15 Analyzed: 02/18/11 06:00

Solids: Preparation: 5030B Dilution: 1

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene	12.1	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene	1.24	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	8.35	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	0.277	0.250	0.500	1.00	J
103-65-1	n-Propylbenzene	2.33	0.250	0.500	1.00	
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	X, Q, U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	9.74	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene	10.4	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	29.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene	62.9	0.500	1.00	2.00	
95-47-6	o-Xylene	4.66	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.86	106	75 - 120	
Dibromofluoromethane	30.00	30.79	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.96	99.9	70 - 120	
Toluene-d8	30.00	29.78	99.3	85 - 120	

ANALYSIS DATA SHEET

GW0021

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102135-05 File ID: 0213505.D

Sampled: 02/14/11 11:17 Prepared: 02/17/11 11:15 Analyzed: 02/18/11 06:30

Solids: Preparation: 5030B Dilution: 1

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)	0.376	0.250	0.500	1.00	J
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, Q, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0021

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102135-05 File ID: 0213505.D

Sampled: 02/14/11 11:17 Prepared: 02/17/11 11:15 Analyzed: 02/18/11 06:30

Solids: Preparation: 5030B Dilution: 1

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	X, Q, U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.34	104	75 - 120	
Dibromofluoromethane	30.00	31.19	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.53	102	70 - 120	
Toluene-d8	30.00	29.66	98.9	85 - 120	

ANALYSIS DATA SHEET

GW8013-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102135-07 File ID: 0213507.D

Sampled: 02/14/11 08:00 Prepared: 02/17/11 11:15 Analyzed: 02/18/11 00:33

Solids: Preparation: 5030B Dilution: 1

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, Q, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, Q, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8013-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102135-07 File ID: 0213507.D

Sampled: 02/14/11 08:00 Prepared: 02/17/11 11:15 Analyzed: 02/18/11 00:33

Solids: Preparation: 5030B Dilution: 1

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	Q, X, U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.16	104	75 - 120	
Dibromofluoromethane	30.00	30.98	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.21	97.4	70 - 120	
Toluene-d8	30.00	30.45	102	85 - 120	

ANALYSIS DATA SHEET

GW0022

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102141-01 File ID: 0214101.D

Sampled: 02/15/11 13:59 Prepared: 02/18/11 00:00 Analyzed: 02/18/11 15:56

Solids: Preparation: 5030B Dilution: 1

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	3.26	2.50	5.00	10.0	J
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, Q, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, Q, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

GW0022

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102141-01 File ID: 0214101.D

Sampled: 02/15/11 13:59 Prepared: 02/18/11 00:00 Analyzed: 02/18/11 15:56

Solids: Preparation: 5030B Dilution: 1

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene	0.343	0.250	0.500	1.00	J
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	14.0	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.12	104	75 - 120	
Dibromofluoromethane	30.00	33.09	110	85 - 115	
1,2-Dichloroethane-d4	30.00	29.90	99.7	70 - 120	
Toluene-d8	30.00	29.99	100	85 - 120	

ANALYSIS DATA SHEET

GW8002-AB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102141-03 File ID: 0214103.D

Sampled: 02/15/11 10:30 Prepared: 02/18/11 00:00 Analyzed: 02/18/11 12:54

Solids: Preparation: 5030B Dilution: 1

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	9.75	2.50	5.00	10.0	J
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, Q, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, Q, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

GW8002-AB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102141-03 File ID: 0214103.D

Sampled: 02/15/11 10:30 Prepared: 02/18/11 00:00 Analyzed: 02/18/11 12:54

Solids: Preparation: 5030B Dilution: 1

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.00	103	75 - 120	
Dibromofluoromethane	30.00	33.53	112	85 - 115	
1,2-Dichloroethane-d4	30.00	30.54	102	70 - 120	
Toluene-d8	30.00	29.04	96.8	85 - 120	

ANALYSIS DATA SHEET

GW8002-RB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102141-04 File ID: 0214104.D

Sampled: 02/15/11 14:50 Prepared: 02/18/11 00:00 Analyzed: 02/18/11 12:24

Solids: Preparation: 5030B Dilution: 1

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	14.3	2.50	5.00	10.0	
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, Q, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, Q, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

GW8002-RB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102141-04 File ID: 0214104.D

Sampled: 02/15/11 14:50 Prepared: 02/18/11 00:00 Analyzed: 02/18/11 12:24

Solids: Preparation: 5030B Dilution: 1

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene	3.84	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.62	105	75 - 120	
Dibromofluoromethane	30.00	33.49	112	85 - 115	
1,2-Dichloroethane-d4	30.00	28.86	96.2	70 - 120	
Toluene-d8	30.00	29.72	99.1	85 - 120	

ANALYSIS DATA SHEET

GW8014-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102141-07 File ID: 0214107.D

Sampled: 02/15/11 08:00 Prepared: 02/18/11 00:00 Analyzed: 02/18/11 11:23

Solids: Preparation: 5030B Dilution: 1

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	X, Q, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, Q, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.279	0.250	0.500	1.00	X, J

ANALYSIS DATA SHEET

GW8014-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102141-07 File ID: 0214107.D

Sampled: 02/15/11 08:00 Prepared: 02/18/11 00:00 Analyzed: 02/18/11 11:23

Solids: Preparation: 5030B Dilution: 1

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride	1.52	0.500	1.00	2.00	J
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene	0.265	0.250	0.500	1.00	J
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.27	101	75 - 120	
Dibromofluoromethane	30.00	34.50	115	85 - 115	
1,2-Dichloroethane-d4	30.00	30.32	101	70 - 120	
Toluene-d8	30.00	28.94	96.5	85 - 120	

ANALYSIS DATA SHEET

GW0011

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102166-01 File ID: 0216601D.D

Sampled: 02/16/11 10:45 Prepared: 02/22/11 00:00 Analyzed: 02/22/11 16:43

Solids: Preparation: 5030B Dilution: 100

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1570	250	500	1000	X, D
71-43-2	Benzene	4300	25.0	50.0	100	D
108-86-1	Bromobenzene		25.0	50.0	100	U
74-97-5	Bromochloromethane		25.0	50.0	100	U
75-27-4	Bromodichloromethane		25.0	50.0	100	N, Q, X, U
75-25-2	Bromoform		25.0	50.0	100	U
74-83-9	Bromomethane		50.0	100	200	Y, U
104-51-8	n-Butylbenzene		25.0	50.0	100	U
78-93-3	2-Butanone	485	250	500	1000	X, J, D
135-98-8	sec-Butylbenzene		25.0	50.0	100	U
98-06-6	tert-Butylbenzene		25.0	50.0	100	U
75-15-0	Carbon disulfide		25.0	50.0	100	U
56-23-5	Carbon tetrachloride		25.0	50.0	100	X, U
108-90-7	Chlorobenzene		25.0	50.0	100	U
75-00-3	Chloroethane		50.0	100	200	U
67-66-3	Chloroform		25.0	50.0	100	U
74-87-3	Chloromethane		25.0	50.0	100	U
95-49-8	2-Chlorotoluene		25.0	50.0	100	U
106-43-4	4-Chlorotoluene		25.0	50.0	100	U
124-48-1	Dibromochloromethane		25.0	50.0	100	U
96-12-8	1,2-Dibromo-3-chloropropane		50.0	100	200	U
106-93-4	1,2-Dibromoethane (EDB)	104	25.0	50.0	100	D
74-95-3	Dibromomethane		25.0	50.0	100	U
95-50-1	1,2-Dichlorobenzene		25.0	50.0	100	U
541-73-1	1,3-Dichlorobenzene		25.0	50.0	100	U
106-46-7	1,4-Dichlorobenzene	39.9	25.0	50.0	100	J, D
75-71-8	Dichlorodifluoromethane		50.0	100	200	N, Q, X, U
75-34-3	1,1-Dichloroethane		25.0	50.0	100	U
107-06-2	1,2-Dichloroethane		25.0	50.0	100	N, U
75-35-4	1,1-Dichloroethene		25.0	50.0	100	U
156-59-2	cis-1,2-Dichloroethene		25.0	50.0	100	U
156-60-5	trans-1,2-Dichloroethene		25.0	50.0	100	U
78-87-5	1,2-Dichloropropane		25.0	50.0	100	U
142-28-9	1,3-Dichloropropane		25.0	50.0	100	U
594-20-7	2,2-Dichloropropane		25.0	50.0	100	U
563-58-6	1,1-Dichloropropene		25.0	50.0	100	U
10061-01-5	cis-1,3-Dichloropropene		25.0	50.0	100	U
10061-02-6	trans-1,3-Dichloropropene		25.0	50.0	100	U
100-41-4	Ethylbenzene	943	25.0	50.0	100	D
87-68-3	Hexachlorobutadiene		25.0	50.0	100	U

ANALYSIS DATA SHEET

GW0011

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102166-01 File ID: 0216601D.D

Sampled: 02/16/11 10:45 Prepared: 02/22/11 00:00 Analyzed: 02/22/11 16:43

Solids: Preparation: 5030B Dilution: 100

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		125	250	500	X, U
98-82-8	Isopropylbenzene	118	25.0	50.0	100	D
99-87-6	p-Isopropyltoluene		25.0	50.0	100	U
75-09-2	Methylene chloride		50.0	100	200	U
91-20-3	Naphthalene	65.8	25.0	50.0	100	J, D
108-10-1	4-Methyl-2-pentanone	177	125	250	500	X, J, D
1634-04-4	Methyl t-Butyl Ether		25.0	50.0	100	U
103-65-1	n-Propylbenzene	106	25.0	50.0	100	D
100-42-5	Styrene		25.0	50.0	100	U
79-34-5	1,1,2,2-Tetrachloroethane		25.0	50.0	100	U
630-20-6	1,1,1,2-Tetrachloroethane		25.0	50.0	100	N, Q, X, U
127-18-4	Tetrachloroethene		25.0	50.0	100	U
108-88-3	Toluene	7170	25.0	50.0	100	N, D
87-61-6	1,2,3-Trichlorobenzene		25.0	50.0	100	U
120-82-1	1,2,4-Trichlorobenzene		25.0	50.0	100	U
79-00-5	1,1,2-Trichloroethane		25.0	50.0	100	U
71-55-6	1,1,1-Trichloroethane		25.0	50.0	100	N, X, U
79-01-6	Trichloroethene		25.0	50.0	100	U
75-69-4	Trichlorofluoromethane		50.0	100	200	N, X, U
96-18-4	1,2,3-Trichloropropane		50.0	100	200	U
108-67-8	1,3,5-Trimethylbenzene	86.8	25.0	50.0	100	J, D
95-63-6	1,2,4-Trimethylbenzene	230	25.0	50.0	100	D
75-01-4	Vinyl chloride		25.0	50.0	100	U
108-38-3/106-42-	m,p-Xylene	1570	50.0	100	200	D
95-47-6	o-Xylene	749	25.0	50.0	100	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.82	103	75 - 120	
Dibromofluoromethane	30.00	33.67	112	85 - 115	
1,2-Dichloroethane-d4	30.00	31.13	104	70 - 120	
Toluene-d8	30.00	28.79	96.0	85 - 120	

ANALYSIS DATA SHEET

GW0031

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102166-03 File ID: 0216603D.D

Sampled: 02/16/11 15:05 Prepared: 02/22/11 00:00 Analyzed: 02/22/11 17:12

Solids: Preparation: 5030B Dilution: 5

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	112	12.5	25.0	50.0	X, D
71-43-2	Benzene	303	1.25	2.50	5.00	D
108-86-1	Bromobenzene		1.25	2.50	5.00	U
74-97-5	Bromochloromethane		1.25	2.50	5.00	U
75-27-4	Bromodichloromethane		1.25	2.50	5.00	Q, X, U
75-25-2	Bromoform		1.25	2.50	5.00	U
74-83-9	Bromomethane		2.50	5.00	10.0	Y, U
104-51-8	n-Butylbenzene	5.68	1.25	2.50	5.00	D
78-93-3	2-Butanone		12.5	25.0	50.0	X, U
135-98-8	sec-Butylbenzene	5.73	1.25	2.50	5.00	D
98-06-6	tert-Butylbenzene	3.63	1.25	2.50	5.00	J, D
75-15-0	Carbon disulfide		1.25	2.50	5.00	U
56-23-5	Carbon tetrachloride		1.25	2.50	5.00	X, U
108-90-7	Chlorobenzene		1.25	2.50	5.00	U
75-00-3	Chloroethane		2.50	5.00	10.0	U
67-66-3	Chloroform		1.25	2.50	5.00	U
74-87-3	Chloromethane		1.25	2.50	5.00	U
95-49-8	2-Chlorotoluene		1.25	2.50	5.00	U
106-43-4	4-Chlorotoluene		1.25	2.50	5.00	U
124-48-1	Dibromochloromethane		1.25	2.50	5.00	U
96-12-8	1,2-Dibromo-3-chloropropane		2.50	5.00	10.0	U
106-93-4	1,2-Dibromoethane (EDB)	10.3	1.25	2.50	5.00	D
74-95-3	Dibromomethane		1.25	2.50	5.00	U
95-50-1	1,2-Dichlorobenzene		1.25	2.50	5.00	U
541-73-1	1,3-Dichlorobenzene		1.25	2.50	5.00	U
106-46-7	1,4-Dichlorobenzene		1.25	2.50	5.00	U
75-71-8	Dichlorodifluoromethane		2.50	5.00	10.0	Q, X, U
75-34-3	1,1-Dichloroethane		1.25	2.50	5.00	U
107-06-2	1,2-Dichloroethane		1.25	2.50	5.00	U
75-35-4	1,1-Dichloroethene		1.25	2.50	5.00	U
156-59-2	cis-1,2-Dichloroethene		1.25	2.50	5.00	U
156-60-5	trans-1,2-Dichloroethene		1.25	2.50	5.00	U
78-87-5	1,2-Dichloropropane		1.25	2.50	5.00	U
142-28-9	1,3-Dichloropropane		1.25	2.50	5.00	U
594-20-7	2,2-Dichloropropane		1.25	2.50	5.00	U
563-58-6	1,1-Dichloropropene		1.25	2.50	5.00	U
10061-01-5	cis-1,3-Dichloropropene		1.25	2.50	5.00	U
10061-02-6	trans-1,3-Dichloropropene		1.25	2.50	5.00	U
100-41-4	Ethylbenzene	78.4	1.25	2.50	5.00	D
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

GW0031

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102166-03 File ID: 0216603D.D

Sampled: 02/16/11 15:05 Prepared: 02/22/11 00:00 Analyzed: 02/22/11 17:12

Solids: Preparation: 5030B Dilution: 5

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		6.25	12.5	25.0	X, U
98-82-8	Isopropylbenzene	17.0	1.25	2.50	5.00	D
99-87-6	p-Isopropyltoluene		1.25	2.50	5.00	U
75-09-2	Methylene chloride		2.50	5.00	10.0	U
91-20-3	Naphthalene	10.4	1.25	2.50	5.00	D
108-10-1	4-Methyl-2-pentanone	16.5	6.25	12.5	25.0	X, J, D
1634-04-4	Methyl t-Butyl Ether		1.25	2.50	5.00	U
103-65-1	n-Propylbenzene	13.7	1.25	2.50	5.00	D
100-42-5	Styrene		1.25	2.50	5.00	U
79-34-5	1,1,2,2-Tetrachloroethane		1.25	2.50	5.00	U
630-20-6	1,1,1,2-Tetrachloroethane		1.25	2.50	5.00	Q, X, U
127-18-4	Tetrachloroethene		1.25	2.50	5.00	U
108-88-3	Toluene	492	1.25	2.50	5.00	D
87-61-6	1,2,3-Trichlorobenzene		1.25	2.50	5.00	U
120-82-1	1,2,4-Trichlorobenzene		1.25	2.50	5.00	U
79-00-5	1,1,2-Trichloroethane		1.25	2.50	5.00	U
71-55-6	1,1,1-Trichloroethane		1.25	2.50	5.00	X, U
79-01-6	Trichloroethene		1.25	2.50	5.00	U
75-69-4	Trichlorofluoromethane		2.50	5.00	10.0	X, U
96-18-4	1,2,3-Trichloropropane		2.50	5.00	10.0	U
108-67-8	1,3,5-Trimethylbenzene	19.8	1.25	2.50	5.00	D
95-63-6	1,2,4-Trimethylbenzene	51.5	1.25	2.50	5.00	D
75-01-4	Vinyl chloride		1.25	2.50	5.00	U
108-38-3/106-42-	m,p-Xylene	177	2.50	5.00	10.0	D
95-47-6	o-Xylene	71.3	1.25	2.50	5.00	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.61	105	75 - 120	
Dibromofluoromethane	30.00	31.76	106	85 - 115	
1,2-Dichloroethane-d4	30.00	29.00	96.7	70 - 120	
Toluene-d8	30.00	28.79	96.0	85 - 120	

ANALYSIS DATA SHEET

GW8015-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102166-05 File ID: 0216605.D

Sampled: 02/16/11 08:00 Prepared: 02/21/11 00:00 Analyzed: 02/21/11 11:07

Solids: Preparation: 5030B Dilution: 1

Batch: 1B21012 Sequence: 1B05312 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Q, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8015-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102166-05 File ID: 0216605.D

Sampled: 02/16/11 08:00 Prepared: 02/21/11 00:00 Analyzed: 02/21/11 11:07

Solids: Preparation: 5030B Dilution: 1

Batch: 1B21012 Sequence: 1B05312 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene	0.303	0.250	0.500	1.00	J
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.08	100	75 - 120	
Dibromofluoromethane	30.00	33.84	113	85 - 115	
1,2-Dichloroethane-d4	30.00	29.90	99.7	70 - 120	
Toluene-d8	30.00	30.26	101	85 - 120	

ANALYSIS DATA SHEET

GW0010

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102174-01 File ID: 0217401D.D

Sampled: 02/17/11 14:56 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 23:59

Solids: Preparation: 5030B Dilution: 200

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		500	1000	2000	X, U
71-43-2	Benzene	7350	50.0	100	200	D
108-86-1	Bromobenzene		50.0	100	200	U
74-97-5	Bromochloromethane		50.0	100	200	U
75-27-4	Bromodichloromethane		50.0	100	200	U
75-25-2	Bromoform		50.0	100	200	Q, U
74-83-9	Bromomethane		100	200	400	U
104-51-8	n-Butylbenzene		50.0	100	200	U
78-93-3	2-Butanone		500	1000	2000	X, U
135-98-8	sec-Butylbenzene		50.0	100	200	U
98-06-6	tert-Butylbenzene		50.0	100	200	U
75-15-0	Carbon disulfide		50.0	100	200	U
56-23-5	Carbon tetrachloride		50.0	100	200	X, U
108-90-7	Chlorobenzene		50.0	100	200	U
75-00-3	Chloroethane		100	200	400	Q, U
67-66-3	Chloroform		50.0	100	200	U
74-87-3	Chloromethane		50.0	100	200	Q, U
95-49-8	2-Chlorotoluene		50.0	100	200	U
106-43-4	4-Chlorotoluene		50.0	100	200	U
124-48-1	Dibromochloromethane		50.0	100	200	U
96-12-8	1,2-Dibromo-3-chloropropane		100	200	400	U
106-93-4	1,2-Dibromoethane (EDB)		50.0	100	200	U
74-95-3	Dibromomethane		50.0	100	200	U
95-50-1	1,2-Dichlorobenzene		50.0	100	200	U
541-73-1	1,3-Dichlorobenzene		50.0	100	200	U
106-46-7	1,4-Dichlorobenzene		50.0	100	200	U
75-71-8	Dichlorodifluoromethane		100	200	400	Q, U
75-34-3	1,1-Dichloroethane		50.0	100	200	U
107-06-2	1,2-Dichloroethane		50.0	100	200	U
75-35-4	1,1-Dichloroethene		50.0	100	200	U
156-59-2	cis-1,2-Dichloroethene		50.0	100	200	U
156-60-5	trans-1,2-Dichloroethene		50.0	100	200	U
78-87-5	1,2-Dichloropropane		50.0	100	200	U
142-28-9	1,3-Dichloropropane		50.0	100	200	U
594-20-7	2,2-Dichloropropane		50.0	100	200	U
563-58-6	1,1-Dichloropropene		50.0	100	200	U
10061-01-5	cis-1,3-Dichloropropene		50.0	100	200	U
10061-02-6	trans-1,3-Dichloropropene		50.0	100	200	U
100-41-4	Ethylbenzene	1100	50.0	100	200	D
87-68-3	Hexachlorobutadiene		50.0	100	200	X, U

ANALYSIS DATA SHEET

GW0010

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102174-01 File ID: 0217401D.D

Sampled: 02/17/11 14:56 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 23:59

Solids: Preparation: 5030B Dilution: 200

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		250	500	1000	X, U
98-82-8	Isopropylbenzene	124	50.0	100	200	J, D
99-87-6	p-Isopropyltoluene		50.0	100	200	U
75-09-2	Methylene chloride	167	100	200	400	J, D
91-20-3	Naphthalene	66.5	50.0	100	200	J, D
108-10-1	4-Methyl-2-pentanone		250	500	1000	X, U
1634-04-4	Methyl t-Butyl Ether		50.0	100	200	U
103-65-1	n-Propylbenzene	102	50.0	100	200	J, D
100-42-5	Styrene		50.0	100	200	U
79-34-5	1,1,2,2-Tetrachloroethane		50.0	100	200	U
630-20-6	1,1,1,2-Tetrachloroethane		50.0	100	200	U
127-18-4	Tetrachloroethene		50.0	100	200	U
108-88-3	Toluene	2310	50.0	100	200	D
87-61-6	1,2,3-Trichlorobenzene		50.0	100	200	U
120-82-1	1,2,4-Trichlorobenzene		50.0	100	200	U
79-00-5	1,1,2-Trichloroethane		50.0	100	200	U
71-55-6	1,1,1-Trichloroethane		50.0	100	200	X, U
79-01-6	Trichloroethene		50.0	100	200	U
75-69-4	Trichlorofluoromethane		100	200	400	X, U
96-18-4	1,2,3-Trichloropropane		100	200	400	U
108-67-8	1,3,5-Trimethylbenzene	147	50.0	100	200	J, D
95-63-6	1,2,4-Trimethylbenzene	355	50.0	100	200	D
75-01-4	Vinyl chloride		50.0	100	200	Q, U
108-38-3/106-42-	m,p-Xylene	1380	100	200	400	D
95-47-6	o-Xylene	643	50.0	100	200	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.71	109	75 - 120	
Dibromofluoromethane	30.00	33.75	113	85 - 115	
1,2-Dichloroethane-d4	30.00	28.40	94.7	70 - 120	
Toluene-d8	30.00	30.00	100	85 - 120	

ANALYSIS DATA SHEET

GW0015

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102174-03 File ID: 0217403D.D

Sampled: 02/17/11 11:10 Prepared: 02/24/11 00:00 Analyzed: 02/25/11 00:29

Solids: Preparation: 5030B Dilution: 100

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1470	250	500	1000	X, D
71-43-2	Benzene	2840	25.0	50.0	100	D
108-86-1	Bromobenzene		25.0	50.0	100	U
74-97-5	Bromochloromethane		25.0	50.0	100	U
75-27-4	Bromodichloromethane		25.0	50.0	100	U
75-25-2	Bromoform		25.0	50.0	100	Q, U
74-83-9	Bromomethane		50.0	100	200	U
104-51-8	n-Butylbenzene		25.0	50.0	100	U
78-93-3	2-Butanone	502	250	500	1000	X, J, D
135-98-8	sec-Butylbenzene		25.0	50.0	100	U
98-06-6	tert-Butylbenzene		25.0	50.0	100	U
75-15-0	Carbon disulfide		25.0	50.0	100	U
56-23-5	Carbon tetrachloride		25.0	50.0	100	X, U
108-90-7	Chlorobenzene		25.0	50.0	100	U
75-00-3	Chloroethane		50.0	100	200	Q, U
67-66-3	Chloroform		25.0	50.0	100	U
74-87-3	Chloromethane		25.0	50.0	100	Q, U
95-49-8	2-Chlorotoluene		25.0	50.0	100	U
106-43-4	4-Chlorotoluene		25.0	50.0	100	U
124-48-1	Dibromochloromethane		25.0	50.0	100	U
96-12-8	1,2-Dibromo-3-chloropropane		50.0	100	200	U
106-93-4	1,2-Dibromoethane (EDB)	73.4	25.0	50.0	100	J, D
74-95-3	Dibromomethane		25.0	50.0	100	U
95-50-1	1,2-Dichlorobenzene		25.0	50.0	100	U
541-73-1	1,3-Dichlorobenzene		25.0	50.0	100	U
106-46-7	1,4-Dichlorobenzene		25.0	50.0	100	U
75-71-8	Dichlorodifluoromethane		50.0	100	200	Q, U
75-34-3	1,1-Dichloroethane		25.0	50.0	100	U
107-06-2	1,2-Dichloroethane		25.0	50.0	100	U
75-35-4	1,1-Dichloroethene		25.0	50.0	100	U
156-59-2	cis-1,2-Dichloroethene		25.0	50.0	100	U
156-60-5	trans-1,2-Dichloroethene		25.0	50.0	100	U
78-87-5	1,2-Dichloropropane		25.0	50.0	100	U
142-28-9	1,3-Dichloropropane		25.0	50.0	100	U
594-20-7	2,2-Dichloropropane		25.0	50.0	100	U
563-58-6	1,1-Dichloropropene		25.0	50.0	100	U
10061-01-5	cis-1,3-Dichloropropene		25.0	50.0	100	U
10061-02-6	trans-1,3-Dichloropropene		25.0	50.0	100	U
100-41-4	Ethylbenzene	897	25.0	50.0	100	D
87-68-3	Hexachlorobutadiene		25.0	50.0	100	X, U

ANALYSIS DATA SHEET

GW0015

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102174-03 File ID: 0217403D.D

Sampled: 02/17/11 11:10 Prepared: 02/24/11 00:00 Analyzed: 02/25/11 00:29

Solids: Preparation: 5030B Dilution: 100

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		125	250	500	X, U
98-82-8	Isopropylbenzene	105	25.0	50.0	100	D
99-87-6	p-Isopropyltoluene		25.0	50.0	100	U
75-09-2	Methylene chloride	61.3	50.0	100	200	J, D
91-20-3	Naphthalene	74.2	25.0	50.0	100	J, D
108-10-1	4-Methyl-2-pentanone		125	250	500	X, U
1634-04-4	Methyl t-Butyl Ether		25.0	50.0	100	U
103-65-1	n-Propylbenzene	103	25.0	50.0	100	D
100-42-5	Styrene		25.0	50.0	100	U
79-34-5	1,1,2,2-Tetrachloroethane		25.0	50.0	100	U
630-20-6	1,1,1,2-Tetrachloroethane		25.0	50.0	100	U
127-18-4	Tetrachloroethene		25.0	50.0	100	U
108-88-3	Toluene	5560	25.0	50.0	100	D
87-61-6	1,2,3-Trichlorobenzene		25.0	50.0	100	U
120-82-1	1,2,4-Trichlorobenzene		25.0	50.0	100	U
79-00-5	1,1,2-Trichloroethane		25.0	50.0	100	U
71-55-6	1,1,1-Trichloroethane		25.0	50.0	100	X, U
79-01-6	Trichloroethene		25.0	50.0	100	U
75-69-4	Trichlorofluoromethane		50.0	100	200	X, U
96-18-4	1,2,3-Trichloropropane		50.0	100	200	U
108-67-8	1,3,5-Trimethylbenzene	107	25.0	50.0	100	D
95-63-6	1,2,4-Trimethylbenzene	331	25.0	50.0	100	D
75-01-4	Vinyl chloride		25.0	50.0	100	Q, U
108-38-3/106-42-	m,p-Xylene	2090	50.0	100	200	D
95-47-6	o-Xylene	771	25.0	50.0	100	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.57	109	75 - 120	
Dibromofluoromethane	30.00	31.89	106	85 - 115	
1,2-Dichloroethane-d4	30.00	29.71	99.0	70 - 120	
Toluene-d8	30.00	29.69	99.0	85 - 120	

ANALYSIS DATA SHEET

GW0036

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102174-05 File ID: 0217405.D

Sampled: 02/17/11 10:18 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 22:28

Solids: Preparation: 5030B Dilution: 1

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	Q, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	Q, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Q, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Q, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

GW0036

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102174-05 File ID: 0217405.D

Sampled: 02/17/11 10:18 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 22:28

Solids: Preparation: 5030B Dilution: 1

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	Q, U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.36	101	75 - 120	
Dibromofluoromethane	30.00	33.14	110	85 - 115	
1,2-Dichloroethane-d4	30.00	30.03	100	70 - 120	
Toluene-d8	30.00	28.51	95.0	85 - 120	

ANALYSIS DATA SHEET

GW0037

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102174-07 File ID: 0217407.D

Sampled: 02/17/11 10:50 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 22:59

Solids: Preparation: 5030B Dilution: 1

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	Q, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	Q, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Q, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Q, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

GW0037

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102174-07 File ID: 0217407.D

Sampled: 02/17/11 10:50 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 22:59

Solids: Preparation: 5030B Dilution: 1

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	Q, U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.86	103	75 - 120	
Dibromofluoromethane	30.00	34.65	115	85 - 115	
1,2-Dichloroethane-d4	30.00	31.26	104	70 - 120	
Toluene-d8	30.00	29.36	97.9	85 - 120	

ANALYSIS DATA SHEET

GW0038

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102174-09 File ID: 0217409.D

Sampled: 02/17/11 10:50 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 23:29

Solids: Preparation: 5030B Dilution: 1

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	Q, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	Q, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Q, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Q, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

GW0038

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102174-09 File ID: 0217409.D

Sampled: 02/17/11 10:50 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 23:29

Solids: Preparation: 5030B Dilution: 1

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	Q, U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.94	103	75 - 120	
Dibromofluoromethane	30.00	34.72	116	85 - 115	*
1,2-Dichloroethane-d4	30.00	32.72	109	70 - 120	
Toluene-d8	30.00	29.62	98.7	85 - 120	

ANALYSIS DATA SHEET

GW8016-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102174-11 File ID: 0217411.D

Sampled: 02/17/11 08:00 Prepared: 02/23/11 00:00 Analyzed: 02/23/11 13:27

Solids: Preparation: 5030B Dilution: 1

Batch: 1B23016 Sequence: 1B05514 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	X, Q, U
75-25-2	Bromoform		0.250	0.500	1.00	Q, X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	X, U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, Q, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	X, U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	X, U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

GW8016-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102174-11 File ID: 0217411.D

Sampled: 02/17/11 08:00 Prepared: 02/23/11 00:00 Analyzed: 02/23/11 13:27

Solids: Preparation: 5030B Dilution: 1

Batch: 1B23016 Sequence: 1B05514 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.91	103	75 - 120	
Dibromofluoromethane	30.00	33.75	112	85 - 115	
1,2-Dichloroethane-d4	30.00	32.11	107	70 - 120	
Toluene-d8	30.00	29.90	99.7	85 - 120	

ANALYSIS DATA SHEET

GW0009

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102179-01 File ID: 0217901D.D

Sampled: 02/18/11 13:06 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 16:28

Solids: Preparation: 5030B Dilution: 20

Batch: 1B24002 Sequence: 1B05611 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1010	50.0	100	200	X, D
71-43-2	Benzene	2400	5.00	10.0	20.0	D
108-86-1	Bromobenzene		5.00	10.0	20.0	U
74-97-5	Bromochloromethane		5.00	10.0	20.0	U
75-27-4	Bromodichloromethane		5.00	10.0	20.0	U
75-25-2	Bromoform		5.00	10.0	20.0	X, U
74-83-9	Bromomethane		10.0	20.0	40.0	U
104-51-8	n-Butylbenzene		5.00	10.0	20.0	U
78-93-3	2-Butanone	203	50.0	100	200	X, D
135-98-8	sec-Butylbenzene	12.0	5.00	10.0	20.0	J, D
98-06-6	tert-Butylbenzene	6.11	5.00	10.0	20.0	J, D
75-15-0	Carbon disulfide		5.00	10.0	20.0	U
56-23-5	Carbon tetrachloride		5.00	10.0	20.0	X, U
108-90-7	Chlorobenzene		5.00	10.0	20.0	U
75-00-3	Chloroethane		10.0	20.0	40.0	U
67-66-3	Chloroform		5.00	10.0	20.0	U
74-87-3	Chloromethane		5.00	10.0	20.0	U
95-49-8	2-Chlorotoluene		5.00	10.0	20.0	U
106-43-4	4-Chlorotoluene		5.00	10.0	20.0	U
124-48-1	Dibromochloromethane		5.00	10.0	20.0	U
96-12-8	1,2-Dibromo-3-chloropropane		10.0	20.0	40.0	U
106-93-4	1,2-Dibromoethane (EDB)	56.3	5.00	10.0	20.0	D
74-95-3	Dibromomethane		5.00	10.0	20.0	U
95-50-1	1,2-Dichlorobenzene		5.00	10.0	20.0	U
541-73-1	1,3-Dichlorobenzene		5.00	10.0	20.0	U
106-46-7	1,4-Dichlorobenzene		5.00	10.0	20.0	U
75-71-8	Dichlorodifluoromethane		10.0	20.0	40.0	U
75-34-3	1,1-Dichloroethane		5.00	10.0	20.0	U
107-06-2	1,2-Dichloroethane		5.00	10.0	20.0	X, U
75-35-4	1,1-Dichloroethene		5.00	10.0	20.0	U
156-59-2	cis-1,2-Dichloroethene		5.00	10.0	20.0	U
156-60-5	trans-1,2-Dichloroethene		5.00	10.0	20.0	U
78-87-5	1,2-Dichloropropane		5.00	10.0	20.0	U
142-28-9	1,3-Dichloropropane		5.00	10.0	20.0	U
594-20-7	2,2-Dichloropropane		5.00	10.0	20.0	U
563-58-6	1,1-Dichloropropene		5.00	10.0	20.0	U
10061-01-5	cis-1,3-Dichloropropene		5.00	10.0	20.0	U
10061-02-6	trans-1,3-Dichloropropene		5.00	10.0	20.0	U
100-41-4	Ethylbenzene	525	5.00	10.0	20.0	D
87-68-3	Hexachlorobutadiene		5.00	10.0	20.0	X, U

ANALYSIS DATA SHEET

GW0009

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102179-01 File ID: 0217901D.D

Sampled: 02/18/11 13:06 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 16:28

Solids: Preparation: 5030B Dilution: 20

Batch: 1B24002 Sequence: 1B05611 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	213	25.0	50.0	100	X, D
98-82-8	Isopropylbenzene	55.4	5.00	10.0	20.0	D
99-87-6	p-Isopropyltoluene		5.00	10.0	20.0	U
75-09-2	Methylene chloride		10.0	20.0	40.0	U
91-20-3	Naphthalene	154	5.00	10.0	20.0	D
108-10-1	4-Methyl-2-pentanone	189	25.0	50.0	100	X, D
1634-04-4	Methyl t-Butyl Ether		5.00	10.0	20.0	U
103-65-1	n-Propylbenzene	58.5	5.00	10.0	20.0	D
100-42-5	Styrene		5.00	10.0	20.0	U
79-34-5	1,1,2,2-Tetrachloroethane		5.00	10.0	20.0	U
630-20-6	1,1,1,2-Tetrachloroethane		5.00	10.0	20.0	U
127-18-4	Tetrachloroethene		5.00	10.0	20.0	U
108-88-3	Toluene	3060	5.00	10.0	20.0	D
87-61-6	1,2,3-Trichlorobenzene		5.00	10.0	20.0	U
120-82-1	1,2,4-Trichlorobenzene		5.00	10.0	20.0	U
79-00-5	1,1,2-Trichloroethane		5.00	10.0	20.0	U
71-55-6	1,1,1-Trichloroethane		5.00	10.0	20.0	X, U
79-01-6	Trichloroethene		5.00	10.0	20.0	U
75-69-4	Trichlorofluoromethane		10.0	20.0	40.0	X, U
96-18-4	1,2,3-Trichloropropane		10.0	20.0	40.0	U
108-67-8	1,3,5-Trimethylbenzene	77.9	5.00	10.0	20.0	D
95-63-6	1,2,4-Trimethylbenzene	226	5.00	10.0	20.0	D
75-01-4	Vinyl chloride		5.00	10.0	20.0	U
108-38-3/106-42-	m,p-Xylene	1380	10.0	20.0	40.0	D
95-47-6	o-Xylene	637	5.00	10.0	20.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.47	108	75 - 120	
Dibromofluoromethane	30.00	31.91	106	85 - 115	
1,2-Dichloroethane-d4	30.00	28.18	93.9	70 - 120	
Toluene-d8	30.00	28.25	94.2	85 - 120	

ANALYSIS DATA SHEET

GW8017-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102179-03 File ID: 0217903.D

Sampled: 02/18/11 08:00 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 09:24

Solids: Preparation: 5030B Dilution: 1

Batch: 1B24002 Sequence: 1B05611 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

GW8017-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102179-03 File ID: 0217903.D

Sampled: 02/18/11 08:00 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 09:24

Solids: Preparation: 5030B Dilution: 1

Batch: 1B24002 Sequence: 1B05611 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene	0.298	0.250	0.500	1.00	J
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.84	99.5	75 - 120	
Dibromofluoromethane	30.00	34.03	113	85 - 115	
1,2-Dichloroethane-d4	30.00	32.58	109	70 - 120	
Toluene-d8	30.00	29.82	99.4	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05006
Instrument: MS-VOA3
Calibration: 1042001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05006-CCV1) ug/L				Lab File ID: 0217CCVE.D		Analyzed: 02/17/11 21:07		
Bromofluorobenzene	30.00	98.8	80 - 120	16.983	16.983	0.0000	+/-1.000	
Dibromofluoromethane	30.00	105	80 - 120	9.926	9.926	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	80 - 120	11.003	11.003	0.0000	+/-1.000	
Toluene-d8	30.00	95.5	80 - 120	14.635	14.635	0.0000	+/-1.000	
LCS (1B17009-BS1) ug/L				Lab File ID: 0217LS1E.D		Analyzed: 02/17/11 21:37		
Bromofluorobenzene	30.00	101	75 - 120	16.983	16.983	0.0000	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	9.92	9.926	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	11.003	11.003	0.0000	+/-1.000	
Toluene-d8	30.00	99.8	85 - 120	14.635	14.635	0.0000	+/-1.000	
Blank (1B17009-BLK1) ug/L				Lab File ID: 0217BL1E.D		Analyzed: 02/17/11 23:03		
Bromofluorobenzene	30.00	103	75 - 120	16.977	16.983	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	9.92	9.926	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	10.997	11.003	-0.0060	+/-1.000	
Toluene-d8	30.00	98.4	85 - 120	14.635	14.635	0.0000	+/-1.000	
GW8013-TB (1102135-07) ug/L				Lab File ID: 0213507.D		Analyzed: 02/18/11 00:33		
Bromofluorobenzene	30.00	104	75 - 120	16.977	16.983	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	9.926	9.926	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	97.4	70 - 120	10.997	11.003	-0.0060	+/-1.000	
Toluene-d8	30.00	102	85 - 120	14.635	14.635	0.0000	+/-1.000	
GW0020 (1102135-03) ug/L				Lab File ID: 0213503.D		Analyzed: 02/18/11 06:00		
Bromofluorobenzene	30.00	106	75 - 120	16.977	16.983	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	9.92	9.926	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.9	70 - 120	10.99	11.003	-0.0130	+/-1.000	
Toluene-d8	30.00	99.3	85 - 120	14.635	14.635	0.0000	+/-1.000	
GW0021 (1102135-05) ug/L				Lab File ID: 0213505.D		Analyzed: 02/18/11 06:30		
Bromofluorobenzene	30.00	104	75 - 120	16.977	16.983	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	9.914	9.926	-0.0120	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.991	11.003	-0.0120	+/-1.000	
Toluene-d8	30.00	98.9	85 - 120	14.635	14.635	0.0000	+/-1.000	
LCS Dup (1B17009-BSD1) ug/L				Lab File ID: 0217LCSDE.D		Analyzed: 02/18/11 07:29		
Bromofluorobenzene	30.00	103	75 - 120	16.977	16.983	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	9.92	9.926	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	10.99	11.003	-0.0130	+/-1.000	
Toluene-d8	30.00	98.0	85 - 120	14.628	14.635	-0.0070	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05201
Instrument: MS-VOA3
Calibration: 1042001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05201-CCV1) ug/L				Lab File ID: 0219CCV1.D		Analyzed: 02/19/11 11:20		
Bromofluorobenzene	30.00	102	80 - 120	16.971	16.971	0.0000	+/-1.000	
Dibromofluoromethane	30.00	106	80 - 120	9.889	9.889	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	80 - 120	10.972	10.972	0.0000	+/-1.000	
Toluene-d8	30.00	96.3	80 - 120	14.623	14.623	0.0000	+/-1.000	
LCS (1B19002-BS1) ug/L				Lab File ID: 0219LS1.D		Analyzed: 02/19/11 12:08		
Bromofluorobenzene	30.00	99.6	75 - 120	16.971	16.971	0.0000	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	9.889	9.889	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	10.972	10.972	0.0000	+/-1.000	
Toluene-d8	30.00	95.8	85 - 120	14.622	14.623	-0.0010	+/-1.000	
Blank (1B19002-BLK1) ug/L				Lab File ID: 0219BL1.D		Analyzed: 02/19/11 13:35		
Bromofluorobenzene	30.00	105	75 - 120	16.971	16.971	0.0000	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	9.889	9.889	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	10.978	10.972	0.0060	+/-1.000	
Toluene-d8	30.00	102	85 - 120	14.622	14.623	-0.0010	+/-1.000	
GW0019 (1102135-01RE1) ug/L				Lab File ID: 0213501.D		Analyzed: 02/19/11 15:04		
Bromofluorobenzene	30.00	105	75 - 120	16.971	16.971	0.0000	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	9.896	9.889	0.0070	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.5	70 - 120	10.972	10.972	0.0000	+/-1.000	
Toluene-d8	30.00	99.5	85 - 120	14.622	14.623	-0.0010	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05303
Instrument: MS-VOA5
Calibration: 0349002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05303-CCV1) ug/L				Lab File ID: 0218CC1.D		Analyzed: 02/18/11 08:43		
Bromofluorobenzene	30.00	95.0	80 - 120	17.652	17.652	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	80 - 120	11.198	11.198	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	90.4	80 - 120	12.006	12.006	0.0000	+/-1.000	
Toluene-d8	30.00	86.3	80 - 120	15.326	15.326	0.0000	+/-1.000	
LCS (1B18011-BS1) ug/L				Lab File ID: 0218LS1.D		Analyzed: 02/18/11 09:25		
Bromofluorobenzene	30.00	101	75 - 120	17.649	17.652	-0.0030	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	11.205	11.198	0.0070	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	12.003	12.006	-0.0030	+/-1.000	
Toluene-d8	30.00	95.3	85 - 120	15.324	15.326	-0.0020	+/-1.000	
Blank (1B18011-BLK1) ug/L				Lab File ID: 0218BL1.D		Analyzed: 02/18/11 10:53		
Bromofluorobenzene	30.00	105	75 - 120	17.651	17.652	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	110	85 - 115	11.197	11.198	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.5	70 - 120	12.005	12.006	-0.0010	+/-1.000	
Toluene-d8	30.00	95.3	85 - 120	15.326	15.326	0.0000	+/-1.000	
GW8014-TB (1102141-07) ug/L				Lab File ID: 0214107.D		Analyzed: 02/18/11 11:23		
Bromofluorobenzene	30.00	101	75 - 120	17.656	17.652	0.0040	+/-1.000	
Dibromofluoromethane	30.00	115	85 - 115	11.202	11.198	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	12	12.006	-0.0060	+/-1.000	
Toluene-d8	30.00	96.5	85 - 120	15.331	15.326	0.0050	+/-1.000	
GW8002-RB (1102141-04) ug/L				Lab File ID: 0214104.D		Analyzed: 02/18/11 12:24		
Bromofluorobenzene	30.00	105	75 - 120	17.646	17.652	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	112	85 - 115	11.201	11.198	0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.2	70 - 120	11.999	12.006	-0.0070	+/-1.000	
Toluene-d8	30.00	99.1	85 - 120	15.33	15.326	0.0040	+/-1.000	
GW8002-AB (1102141-03) ug/L				Lab File ID: 0214103.D		Analyzed: 02/18/11 12:54		
Bromofluorobenzene	30.00	103	75 - 120	17.657	17.652	0.0050	+/-1.000	
Dibromofluoromethane	30.00	112	85 - 115	11.203	11.198	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	12.001	12.006	-0.0050	+/-1.000	
Toluene-d8	30.00	96.8	85 - 120	15.331	15.326	0.0050	+/-1.000	
GW0022 (1102141-01) ug/L				Lab File ID: 0214101.D		Analyzed: 02/18/11 15:56		
Bromofluorobenzene	30.00	104	75 - 120	17.65	17.652	-0.0020	+/-1.000	
Dibromofluoromethane	30.00	110	85 - 115	11.195	11.198	-0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.7	70 - 120	11.994	12.006	-0.0120	+/-1.000	
Toluene-d8	30.00	100	85 - 120	15.324	15.326	-0.0020	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05303
Instrument: MS-VOA5
Calibration: 0349002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
LCS Dup (1B18011-BSD1) ug/L				Lab File ID: 0218LD1.D		Analyzed: 02/18/11 20:27		
Bromofluorobenzene	30.00	101	75 - 120	17.646	17.652	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	11.192	11.198	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	12	12.006	-0.0060	+/-1.000	
Toluene-d8	30.00	93.7	85 - 120	15.321	15.326	-0.0050	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05312
Instrument: MS-VOA5
Calibration: 0349002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05312-CCV1) ug/L				Lab File ID: 0221CC1.D		Analyzed: 02/21/11 08:35		
Bromofluorobenzene	30.00	97.1	80 - 120	17.667	17.667	0.0000	+/-1.000	
Dibromofluoromethane	30.00	103	80 - 120	11.233	11.233	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.2	80 - 120	12.031	12.031	0.0000	+/-1.000	
Toluene-d8	30.00	90.5	80 - 120	15.352	15.352	0.0000	+/-1.000	
LCS (1B21012-BS1) ug/L				Lab File ID: 0221LS1.D		Analyzed: 02/21/11 09:05		
Bromofluorobenzene	30.00	96.8	75 - 120	17.666	17.667	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	11.232	11.233	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.7	70 - 120	12.03	12.031	-0.0010	+/-1.000	
Toluene-d8	30.00	94.1	85 - 120	15.35	15.352	-0.0020	+/-1.000	
Blank (1B21012-BLK1) ug/L				Lab File ID: 0221BL1.D		Analyzed: 02/21/11 10:33		
Bromofluorobenzene	30.00	97.1	75 - 120	17.662	17.667	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	11.238	11.233	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	12.026	12.031	-0.0050	+/-1.000	
Toluene-d8	30.00	99.5	85 - 120	15.347	15.352	-0.0050	+/-1.000	
GW8015-TB (1102166-05) ug/L				Lab File ID: 0216605.D		Analyzed: 02/21/11 11:07		
Bromofluorobenzene	30.00	100	75 - 120	17.662	17.667	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	113	85 - 115	11.238	11.233	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.7	70 - 120	12.036	12.031	0.0050	+/-1.000	
Toluene-d8	30.00	101	85 - 120	15.347	15.352	-0.0050	+/-1.000	
LCS Dup (1B21012-BSD1) ug/L				Lab File ID: 0221LD1.D		Analyzed: 02/21/11 20:12		
Bromofluorobenzene	30.00	101	75 - 120	17.666	17.667	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	11.232	11.233	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.6	70 - 120	12.03	12.031	-0.0010	+/-1.000	
Toluene-d8	30.00	94.4	85 - 120	15.341	15.352	-0.0110	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05401
Instrument: MS-VOA3
Calibration: 1042001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05401-CCV1) ug/L				Lab File ID: 0222CCV1.D		Analyzed: 02/22/11 07:49		
Bromofluorobenzene	30.00	98.3	80 - 120	16.977	16.977	0.0000	+/-1.000	
Dibromofluoromethane	30.00	109	80 - 120	9.92	9.92	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	80 - 120	10.997	10.997	0.0000	+/-1.000	
Toluene-d8	30.00	95.6	80 - 120	14.635	14.635	0.0000	+/-1.000	
LCS (1B22009-BS1) ug/L				Lab File ID: 0222LS1.D		Analyzed: 02/22/11 08:19		
Bromofluorobenzene	30.00	98.9	75 - 120	16.977	16.977	0.0000	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	9.914	9.92	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	10.997	10.997	0.0000	+/-1.000	
Toluene-d8	30.00	94.4	85 - 120	14.629	14.635	-0.0060	+/-1.000	
Blank (1B22009-BLK1) ug/L				Lab File ID: 0222BL1.D		Analyzed: 02/22/11 09:45		
Bromofluorobenzene	30.00	103	75 - 120	16.977	16.977	0.0000	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	9.914	9.92	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	10.985	10.997	-0.0120	+/-1.000	
Toluene-d8	30.00	97.1	85 - 120	14.629	14.635	-0.0060	+/-1.000	
GW0011 (1102166-01) ug/L				Lab File ID: 0216601D.D		Analyzed: 02/22/11 16:43		
Bromofluorobenzene	30.00	103	75 - 120	16.977	16.977	0.0000	+/-1.000	
Dibromofluoromethane	30.00	112	85 - 115	9.908	9.92	-0.0120	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	10.991	10.997	-0.0060	+/-1.000	
Toluene-d8	30.00	96.0	85 - 120	14.629	14.635	-0.0060	+/-1.000	
GW0031 (1102166-03) ug/L				Lab File ID: 0216603D.D		Analyzed: 02/22/11 17:12		
Bromofluorobenzene	30.00	105	75 - 120	16.977	16.977	0.0000	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	9.914	9.92	-0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.7	70 - 120	10.991	10.997	-0.0060	+/-1.000	
Toluene-d8	30.00	96.0	85 - 120	14.629	14.635	-0.0060	+/-1.000	
Matrix Spike (1B22009-MS1) ug/L				Lab File ID: 0216601M.D		Analyzed: 02/22/11 18:12		
Bromofluorobenzene	30.00	99.3	75 - 120	16.971	16.977	-0.0060	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	9.895	9.92	-0.0250	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	10.984	10.997	-0.0130	+/-1.000	
Toluene-d8	30.00	92.7	85 - 120	14.628	14.635	-0.0070	+/-1.000	
Matrix Spike Dup (1B22009-MSD1) ug/L				Lab File ID: 0216601S.D		Analyzed: 02/22/11 18:42		
Bromofluorobenzene	30.00	102	75 - 120	16.977	16.977	0.0000	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	9.902	9.92	-0.0180	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.1	70 - 120	10.985	10.997	-0.0120	+/-1.000	
Toluene-d8	30.00	96.9	85 - 120	14.629	14.635	-0.0060	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05514
Instrument: MS-VOA5
Calibration: 0349002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05514-CCV1) ug/L				Lab File ID: 0223CC1.D		Analyzed: 02/23/11 10:28		
Bromofluorobenzene	30.00	94.5	80 - 120	17.649	17.649	0.0000	+/-1.000	
Dibromofluoromethane	30.00	109	80 - 120	11.195	11.195	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	80 - 120	12.003	12.003	0.0000	+/-1.000	
Toluene-d8	30.00	85.8	80 - 120	15.323	15.323	0.0000	+/-1.000	
LCS (1B23016-BS1) ug/L				Lab File ID: 0223LS1.D		Analyzed: 02/23/11 10:59		
Bromofluorobenzene	30.00	95.0	75 - 120	17.646	17.649	-0.0030	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	11.202	11.195	0.0070	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	12	12.003	-0.0030	+/-1.000	
Toluene-d8	30.00	93.5	85 - 120	15.32	15.323	-0.0030	+/-1.000	
Blank (1B23016-BLK1) ug/L				Lab File ID: 0223BL1.D		Analyzed: 02/23/11 12:57		
Bromofluorobenzene	30.00	103	75 - 120	17.653	17.649	0.0040	+/-1.000	
Dibromofluoromethane	30.00	110	85 - 115	11.209	11.195	0.0140	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	12.007	12.003	0.0040	+/-1.000	
Toluene-d8	30.00	96.9	85 - 120	15.337	15.323	0.0140	+/-1.000	
GW8016-TB (1102174-11) ug/L				Lab File ID: 0217411.D		Analyzed: 02/23/11 13:27		
Bromofluorobenzene	30.00	103	75 - 120	17.653	17.649	0.0040	+/-1.000	
Dibromofluoromethane	30.00	112	85 - 115	11.198	11.195	0.0030	+/-1.000	
1,2-Dichloroethane-d4	30.00	107	70 - 120	12.006	12.003	0.0030	+/-1.000	
Toluene-d8	30.00	99.7	85 - 120	15.327	15.323	0.0040	+/-1.000	
LCS Dup (1B23016-BSD1) ug/L				Lab File ID: 0223LD1.D		Analyzed: 02/23/11 22:01		
Bromofluorobenzene	30.00	105	75 - 120	17.653	17.649	0.0040	+/-1.000	
Dibromofluoromethane	30.00	108	85 - 115	11.209	11.195	0.0140	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	12.007	12.003	0.0040	+/-1.000	
Toluene-d8	30.00	92.9	85 - 120	15.328	15.323	0.0050	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05611
Instrument: MS-VOA5
Calibration: 0349002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05611-CCV1) ug/L				Lab File ID: 0224CC1.D		Analyzed: 02/24/11 06:55		
Bromofluorobenzene	30.00	95.5	80 - 120	17.656	17.656	0.0000	+/-1.000	
Dibromofluoromethane	30.00	106	80 - 120	11.212	11.212	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.3	80 - 120	12.01	12.01	0.0000	+/-1.000	
Toluene-d8	30.00	90.1	80 - 120	15.341	15.341	0.0000	+/-1.000	
LCS (1B24002-BS1) ug/L				Lab File ID: 0224LS1.D		Analyzed: 02/24/11 07:25		
Bromofluorobenzene	30.00	99.2	75 - 120	17.657	17.656	0.0010	+/-1.000	
Dibromofluoromethane	30.00	104	85 - 115	11.222	11.212	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	70 - 120	12.011	12.01	0.0010	+/-1.000	
Toluene-d8	30.00	98.1	85 - 120	15.331	15.341	-0.0100	+/-1.000	
Blank (1B24002-BLK1) ug/L				Lab File ID: 0224BL1.D		Analyzed: 02/24/11 08:54		
Bromofluorobenzene	30.00	102	75 - 120	17.653	17.656	-0.0030	+/-1.000	
Dibromofluoromethane	30.00	111	85 - 115	11.218	11.212	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	12.016	12.01	0.0060	+/-1.000	
Toluene-d8	30.00	100	85 - 120	15.337	15.341	-0.0040	+/-1.000	
GW8017-TB (1102179-03) ug/L				Lab File ID: 0217903.D		Analyzed: 02/24/11 09:24		
Bromofluorobenzene	30.00	99.5	75 - 120	17.657	17.656	0.0010	+/-1.000	
Dibromofluoromethane	30.00	113	85 - 115	11.222	11.212	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	109	70 - 120	12.01	12.01	0.0000	+/-1.000	
Toluene-d8	30.00	99.4	85 - 120	15.331	15.341	-0.0100	+/-1.000	
GW0009 (1102179-01) ug/L				Lab File ID: 0217901D.D		Analyzed: 02/24/11 16:28		
Bromofluorobenzene	30.00	108	75 - 120	17.666	17.656	0.0100	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	11.242	11.212	0.0300	+/-1.000	
1,2-Dichloroethane-d4	30.00	93.9	70 - 120	12.03	12.01	0.0200	+/-1.000	
Toluene-d8	30.00	94.2	85 - 120	15.351	15.341	0.0100	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05612
Instrument: MS-VOA5
Calibration: 0349002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05612-CCV1) ug/L				Lab File ID: 0224CC1E.D		Analyzed: 02/24/11 19:30		
Bromofluorobenzene	30.00	93.4	80 - 120	17.677	17.677	0.0000	+/-1.000	
Dibromofluoromethane	30.00	110	80 - 120	11.242	11.242	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.9	80 - 120	12.04	12.04	0.0000	+/-1.000	
Toluene-d8	30.00	89.8	80 - 120	15.361	15.361	0.0000	+/-1.000	
LCS (1B24021-BS1) ug/L				Lab File ID: 0224LS1E.D		Analyzed: 02/24/11 20:00		
Bromofluorobenzene	30.00	97.6	75 - 120	17.672	17.677	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	11.248	11.242	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	12.036	12.04	-0.0040	+/-1.000	
Toluene-d8	30.00	96.3	85 - 120	15.357	15.361	-0.0040	+/-1.000	
Blank (1B24021-BLK1) ug/L				Lab File ID: 0224BL1E.D		Analyzed: 02/24/11 21:28		
Bromofluorobenzene	30.00	101	75 - 120	17.677	17.677	0.0000	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	11.252	11.242	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.5	70 - 120	12.05	12.04	0.0100	+/-1.000	
Toluene-d8	30.00	99.7	85 - 120	15.361	15.361	0.0000	+/-1.000	
GW0036 (1102174-05) ug/L				Lab File ID: 0217405.D		Analyzed: 02/24/11 22:28		
Bromofluorobenzene	30.00	101	75 - 120	17.678	17.677	0.0010	+/-1.000	
Dibromofluoromethane	30.00	110	85 - 115	11.244	11.242	0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	100	70 - 120	12.032	12.04	-0.0080	+/-1.000	
Toluene-d8	30.00	95.0	85 - 120	15.353	15.361	-0.0080	+/-1.000	
GW0037 (1102174-07) ug/L				Lab File ID: 0217407.D		Analyzed: 02/24/11 22:59		
Bromofluorobenzene	30.00	103	75 - 120	17.679	17.677	0.0020	+/-1.000	
Dibromofluoromethane	30.00	115	85 - 115	11.244	11.242	0.0020	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	12.043	12.04	0.0030	+/-1.000	
Toluene-d8	30.00	97.9	85 - 120	15.353	15.361	-0.0080	+/-1.000	
GW0038 (1102174-09) ug/L				Lab File ID: 0217409.D		Analyzed: 02/24/11 23:29		
Bromofluorobenzene	30.00	103	75 - 120	17.678	17.677	0.0010	+/-1.000	
Dibromofluoromethane	30.00	116	85 - 115	11.244	11.242	0.0020	+/-1.000	*
1,2-Dichloroethane-d4	30.00	109	70 - 120	12.042	12.04	0.0020	+/-1.000	
Toluene-d8	30.00	98.7	85 - 120	15.353	15.361	-0.0080	+/-1.000	
GW0010 (1102174-01) ug/L				Lab File ID: 0217401D.D		Analyzed: 02/24/11 23:59		
Bromofluorobenzene	30.00	109	75 - 120	17.672	17.677	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	113	85 - 115	11.247	11.242	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.7	70 - 120	12.045	12.04	0.0050	+/-1.000	
Toluene-d8	30.00	100	85 - 120	15.356	15.361	-0.0050	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05612
Instrument: MS-VOA5
Calibration: 0349002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
GW0015 (1102174-03) ug/L				Lab File ID: 0217403D.D		Analyzed: 02/25/11 00:29		
Bromofluorobenzene	30.00	109	75 - 120	17.681	17.677	0.0040	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	11.246	11.242	0.0040	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.0	70 - 120	12.045	12.04	0.0050	+/-1.000	
Toluene-d8	30.00	99.0	85 - 120	15.355	15.361	-0.0060	+/-1.000	
LCS Dup (1B24021-BSD1) ug/L				Lab File ID: 0224LD1E.D		Analyzed: 02/25/11 02:30		
Bromofluorobenzene	30.00	103	75 - 120	17.667	17.677	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	11.242	11.242	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.9	70 - 120	12.04	12.04	0.0000	+/-1.000	
Toluene-d8	30.00	98.1	85 - 120	15.351	15.361	-0.0100	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B17009
Laboratory ID: 1B17009-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	110	110	40 - 140
Benzene	50.00	52.9	106	80 - 120
Bromobenzene	50.00	52.9	106	75 - 125
Bromochloromethane	50.00	55.2	110	65 - 130
Bromodichloromethane	**50.00**	**66.8**	**134**	**75 - 120**
Bromoform	50.00	58.0	116	70 - 130
Bromomethane	50.00	24.8	49.7	30 - 145
n-Butylbenzene	50.00	52.2	104	70 - 135
2-Butanone	100.0	98.1	98.1	30 - 150
sec-Butylbenzene	50.00	54.0	108	70 - 125
tert-Butylbenzene	50.00	54.2	108	70 - 130
Carbon disulfide	50.00	60.1	120	35 - 160
Carbon tetrachloride	50.00	61.9	124	65 - 140
Chlorobenzene	50.00	53.7	107	80 - 120
Chloroethane	50.00	57.6	115	60 - 135
Chloroform	50.00	55.4	111	65 - 135
Chloromethane	50.00	52.5	105	40 - 125
2-Chlorotoluene	50.00	53.3	107	75 - 125
4-Chlorotoluene	50.00	54.2	108	75 - 130
Dibromochloromethane	50.00	59.5	119	60 - 135
1,2-Dibromo-3-chloropropane	50.00	51.3	103	50 - 130
1,2-Dibromoethane (EDB)	50.00	55.1	110	80 - 120
Dibromomethane	50.00	56.8	114	75 - 125
1,2-Dichlorobenzene	50.00	53.3	107	70 - 120
1,3-Dichlorobenzene	50.00	52.2	104	75 - 125
1,4-Dichlorobenzene	50.00	51.3	103	75 - 125
Dichlorodifluoromethane	**50.00**	**83.6**	**167**	**30 - 155**
1,1-Dichloroethane	50.00	54.7	109	70 - 135
1,2-Dichloroethane	50.00	58.6	117	70 - 130
1,1-Dichloroethene	50.00	60.4	121	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B17009
Laboratory ID: 1B17009-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	52.7	105	70 - 125
trans-1,2-Dichloroethene	50.00	54.6	109	60 - 140
1,2-Dichloropropane	50.00	52.4	105	75 - 125
1,3-Dichloropropane	50.00	52.0	104	75 - 125
2,2-Dichloropropane	50.00	47.2	94.4	70 - 135
1,1-Dichloropropene	50.00	56.3	113	75 - 130
cis-1,3-Dichloropropene	50.00	51.7	103	70 - 130
trans-1,3-Dichloropropene	50.00	60.1	120	55 - 140
Ethylbenzene	50.00	52.9	106	75 - 125
Hexachlorobutadiene	50.00	55.2	110	50 - 140
2-Hexanone	100.0	95.5	95.5	55 - 130
Isopropylbenzene	50.00	57.2	114	75 - 125
p-Isopropyltoluene	50.00	53.7	107	75 - 130
Methylene chloride	50.00	51.9	104	55 - 140
Naphthalene	50.00	52.6	105	55 - 140
4-Methyl-2-pentanone	100.0	109	109	60 - 135
Methyl t-Butyl Ether	100.0	108	108	65 - 125
n-Propylbenzene	50.00	54.9	110	70 - 130
Styrene	50.00	54.7	109	65 - 135
1,1,2,2-Tetrachloroethane	50.00	51.0	102	65 - 130
1,1,1,2-Tetrachloroethane	**50.00**	**66.4**	**133**	**80 - 130**
Tetrachloroethene	50.00	53.8	108	45 - 150
Toluene	50.00	51.2	102	75 - 120
1,2,3-Trichlorobenzene	50.00	49.3	98.5	55 - 140
1,2,4-Trichlorobenzene	50.00	48.8	97.6	65 - 135
1,1,2-Trichloroethane	50.00	52.4	105	75 - 125
1,1,1-Trichloroethane	50.00	61.0	122	65 - 130
Trichloroethene	50.00	56.3	113	70 - 125
Trichlorofluoromethane	50.00	66.8	134	60 - 145
1,2,3-Trichloropropane	50.00	57.8	116	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B17009	Laboratory ID:	1B17009-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	53.1	106	75 - 130
1,2,4-Trimethylbenzene	50.00	53.7	107	75 - 130
Vinyl chloride	50.00	59.9	120	50 - 145
m,p-Xylene	100.0	99.6	99.6	75 - 130
o-Xylene	50.00	51.1	102	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	121	121	10.0	30	40 - 140
Benzene	50.00	51.9	104	1.79	30	80 - 120
Bromobenzene	50.00	52.5	105	0.764	30	75 - 125
Bromochloromethane	50.00	55.7	111	1.01	30	65 - 130
Bromodichloromethane	**50.00**	**65.4**	**131 ***	**2.00**	**30**	**75 - 120**
Bromoform	50.00	55.0	110	5.34	30	70 - 130
Bromomethane	50.00	20.4	40.8	19.6	30	30 - 145
n-Butylbenzene	50.00	51.2	102	1.94	30	70 - 135
2-Butanone	100.0	102	102	3.96	30	30 - 150
sec-Butylbenzene	50.00	52.8	106	2.19	30	70 - 125
tert-Butylbenzene	50.00	53.5	107	1.31	30	70 - 130
Carbon disulfide	50.00	57.8	116	3.94	30	35 - 160
Carbon tetrachloride	50.00	57.5	115	7.40	30	65 - 140
Chlorobenzene	50.00	53.9	108	0.305	30	80 - 120
Chloroethane	50.00	56.2	112	2.48	30	60 - 135
Chloroform	50.00	55.7	111	0.630	30	65 - 135
Chloromethane	50.00	53.0	106	1.02	30	40 - 125
2-Chlorotoluene	50.00	52.8	106	1.02	30	75 - 125
4-Chlorotoluene	50.00	53.6	107	1.10	30	75 - 130
Dibromochloromethane	50.00	56.2	112	5.62	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	47.6	95.1	7.63	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	55.0	110	0.159	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B17009
Laboratory ID: 1B17009-BSD1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibromomethane	50.00	57.9	116	1.94	30	75 - 125
1,2-Dichlorobenzene	50.00	53.9	108	1.20	30	70 - 120
1,3-Dichlorobenzene	50.00	53.5	107	2.30	30	75 - 125
1,4-Dichlorobenzene	50.00	49.8	99.6	2.93	30	75 - 125
Dichlorodifluoromethane	50.00	74.5	149	11.4	30	30 - 155
1,1-Dichloroethane	50.00	55.0	110	0.518	30	70 - 135
1,2-Dichloroethane	50.00	61.1	122	4.14	30	70 - 130
1,1-Dichloroethene	50.00	56.8	114	6.23	30	70 - 130
cis-1,2-Dichloroethene	50.00	52.0	104	1.30	30	70 - 125
trans-1,2-Dichloroethene	50.00	54.1	108	0.780	30	60 - 140
1,2-Dichloropropane	50.00	52.0	104	0.774	30	75 - 125
1,3-Dichloropropane	50.00	53.4	107	2.71	30	75 - 125
2,2-Dichloropropane	50.00	36.0	72.0	26.9	30	70 - 135
1,1-Dichloropropene	50.00	54.9	110	2.65	30	75 - 130
cis-1,3-Dichloropropene	50.00	48.8	97.7	5.73	30	70 - 130
trans-1,3-Dichloropropene	50.00	56.6	113	5.99	30	55 - 140
Ethylbenzene	50.00	54.7	109	3.35	30	75 - 125
Hexachlorobutadiene	50.00	48.0	96.0	14.0	30	50 - 140
2-Hexanone	100.0	108	108	11.9	30	55 - 130
Isopropylbenzene	50.00	57.7	115	0.929	30	75 - 125
p-Isopropyltoluene	50.00	53.2	106	0.819	30	75 - 130
Methylene chloride	50.00	52.8	106	1.58	30	55 - 140
Naphthalene	50.00	51.0	102	3.11	30	55 - 140
4-Methyl-2-pentanone	100.0	121	121	10.1	30	60 - 135
Methyl t-Butyl Ether	100.0	106	106	1.47	30	65 - 125
n-Propylbenzene	50.00	54.3	109	0.977	30	70 - 130
Styrene	50.00	56.6	113	3.40	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.9	99.9	2.06	30	65 - 130
1,1,1,2-Tetrachloroethane	**50.00**	**65.7**	**131 ***	**1.14**	**30**	**80 - 130**
Tetrachloroethene	50.00	52.8	106	1.91	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B17009
Laboratory ID: 1B17009-BSD1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	50.00	51.2	102	0.0937	30	75 - 120
1,2,3-Trichlorobenzene	50.00	48.2	96.5	2.08	30	55 - 140
1,2,4-Trichlorobenzene	50.00	47.3	94.5	3.24	30	65 - 135
1,1,2-Trichloroethane	50.00	50.6	101	3.58	30	75 - 125
1,1,1-Trichloroethane	50.00	60.0	120	1.65	30	65 - 130
Trichloroethene	50.00	56.7	113	0.744	30	70 - 125
Trichlorofluoromethane	50.00	58.7	117	12.9	30	60 - 145
1,2,3-Trichloropropane	50.00	56.2	112	2.94	30	75 - 125
1,3,5-Trimethylbenzene	50.00	53.6	107	0.865	30	75 - 130
1,2,4-Trimethylbenzene	50.00	54.2	108	0.941	30	75 - 130
Vinyl chloride	50.00	56.5	113	5.70	30	50 - 145
m,p-Xylene	100.0	100	100	0.424	30	75 - 130
o-Xylene	50.00	52.5	105	2.65	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B18011
Laboratory ID: 1B18011-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	112	112	40 - 140
Benzene	50.00	52.4	105	80 - 120
Bromobenzene	50.00	55.0	110	75 - 125
Bromochloromethane	50.00	58.9	118	65 - 130
Bromodichloromethane	**50.00**	**61.7**	**123**	**75 - 120**
Bromoform	**50.00**	**65.3**	**131**	**70 - 130**
Bromomethane	50.00	55.5	111	30 - 145
n-Butylbenzene	50.00	50.7	101	70 - 135
2-Butanone	100.0	98.6	98.6	30 - 150
sec-Butylbenzene	50.00	52.3	105	70 - 125
tert-Butylbenzene	50.00	55.0	110	70 - 130
Carbon disulfide	50.00	51.7	103	35 - 160
Carbon tetrachloride	50.00	61.6	123	65 - 140
Chlorobenzene	50.00	50.6	101	80 - 120
Chloroethane	50.00	56.6	113	60 - 135
Chloroform	50.00	56.3	113	65 - 135
Chloromethane	50.00	54.8	110	40 - 125
2-Chlorotoluene	50.00	51.8	104	75 - 125
4-Chlorotoluene	50.00	51.9	104	75 - 130
Dibromochloromethane	50.00	60.8	122	60 - 135
1,2-Dibromo-3-chloropropane	50.00	57.3	115	50 - 130
1,2-Dibromoethane (EDB)	50.00	54.7	109	80 - 120
Dibromomethane	50.00	57.4	115	75 - 125
1,2-Dichlorobenzene	50.00	52.9	106	70 - 120
1,3-Dichlorobenzene	50.00	50.9	102	75 - 125
1,4-Dichlorobenzene	50.00	51.6	103	75 - 125
Dichlorodifluoromethane	50.00	60.2	120	30 - 155
1,1-Dichloroethane	50.00	56.2	112	70 - 135
1,2-Dichloroethane	50.00	64.0	128	70 - 130
1,1-Dichloroethene	50.00	59.7	119	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B18011
Laboratory ID: 1B18011-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	56.5	113	70 - 125
trans-1,2-Dichloroethene	50.00	54.8	110	60 - 140
1,2-Dichloropropane	50.00	51.6	103	75 - 125
1,3-Dichloropropane	50.00	50.7	101	75 - 125
2,2-Dichloropropane	50.00	57.9	116	70 - 135
1,1-Dichloropropene	50.00	59.7	119	75 - 130
cis-1,3-Dichloropropene	50.00	55.4	111	70 - 130
trans-1,3-Dichloropropene	50.00	63.1	126	55 - 140
Ethylbenzene	50.00	53.2	106	75 - 125
Hexachlorobutadiene	50.00	62.4	125	50 - 140
2-Hexanone	100.0	94.8	94.8	55 - 130
Isopropylbenzene	50.00	58.2	116	75 - 125
p-Isopropyltoluene	50.00	55.6	111	75 - 130
Methylene chloride	50.00	56.2	112	55 - 140
Naphthalene	50.00	52.7	105	55 - 140
4-Methyl-2-pentanone	100.0	104	104	60 - 135
Methyl t-Butyl Ether	100.0	121	121	65 - 125
n-Propylbenzene	50.00	52.0	104	70 - 130
Styrene	50.00	55.7	111	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.1	98.2	65 - 130
1,1,1,2-Tetrachloroethane	50.00	57.1	114	80 - 130
Tetrachloroethene	50.00	56.4	113	45 - 150
Toluene	50.00	51.6	103	75 - 120
1,2,3-Trichlorobenzene	50.00	52.3	105	55 - 140
1,2,4-Trichlorobenzene	50.00	52.7	105	65 - 135
1,1,2-Trichloroethane	50.00	49.6	99.1	75 - 125
1,1,1-Trichloroethane	50.00	60.4	121	65 - 130
Trichloroethene	50.00	55.3	111	70 - 125
Trichlorofluoromethane	50.00	59.7	119	60 - 145
1,2,3-Trichloropropane	50.00	55.2	110	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B18011
Laboratory ID: 1B18011-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	54.2	108	75 - 130
1,2,4-Trimethylbenzene	50.00	54.6	109	75 - 130
Vinyl chloride	50.00	54.4	109	50 - 145
m,p-Xylene	100.0	107	107	75 - 130
o-Xylene	50.00	52.7	105	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	116	116	2.96	30	40 - 140
Benzene	50.00	54.2	108	3.52	30	80 - 120
Bromobenzene	50.00	55.0	110	0.156	30	75 - 125
Bromochloromethane	50.00	58.5	117	0.759	30	65 - 130
Bromodichloromethane	**50.00**	**63.4**	**127 ***	**2.80**	**30**	**75 - 120**
Bromoform	50.00	64.1	128	1.87	30	70 - 130
Bromomethane	50.00	53.9	108	3.00	30	30 - 145
n-Butylbenzene	50.00	50.6	101	0.0478	30	70 - 135
2-Butanone	100.0	94.0	94.0	4.80	30	30 - 150
sec-Butylbenzene	50.00	49.0	98.0	6.45	30	70 - 125
tert-Butylbenzene	50.00	52.1	104	5.41	30	70 - 130
Carbon disulfide	50.00	52.3	105	1.13	30	35 - 160
Carbon tetrachloride	50.00	63.8	128	3.50	30	65 - 140
Chlorobenzene	50.00	50.1	100	1.03	30	80 - 120
Chloroethane	50.00	57.8	116	2.06	30	60 - 135
Chloroform	50.00	58.1	116	3.12	30	65 - 135
Chloromethane	50.00	56.3	113	2.72	30	40 - 125
2-Chlorotoluene	50.00	49.5	99.0	4.44	30	75 - 125
4-Chlorotoluene	50.00	53.0	106	2.12	30	75 - 130
Dibromochloromethane	50.00	60.6	121	0.236	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	51.7	103	10.2	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.6	107	2.06	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B18011
Laboratory ID: 1B18011-BSD1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibromomethane	50.00	59.1	118	2.95	30	75 - 125
1,2-Dichlorobenzene	50.00	52.8	106	0.129	30	70 - 120
1,3-Dichlorobenzene	50.00	52.1	104	2.41	30	75 - 125
1,4-Dichlorobenzene	50.00	49.5	99.1	4.12	30	75 - 125
Dichlorodifluoromethane	50.00	63.9	128	5.92	30	30 - 155
1,1-Dichloroethane	50.00	56.6	113	0.638	30	70 - 135
1,2-Dichloroethane	**50.00**	**65.6**	**131 ***	**2.51**	**30**	**70 - 130**
1,1-Dichloroethene	50.00	61.7	123	3.29	30	70 - 130
cis-1,2-Dichloroethene	50.00	55.9	112	1.06	30	70 - 125
trans-1,2-Dichloroethene	50.00	53.4	107	2.55	30	60 - 140
1,2-Dichloropropane	50.00	54.0	108	4.45	30	75 - 125
1,3-Dichloropropane	50.00	50.0	100	1.30	30	75 - 125
2,2-Dichloropropane	50.00	51.0	102	12.6	30	70 - 135
1,1-Dichloropropene	50.00	58.6	117	1.96	30	75 - 130
cis-1,3-Dichloropropene	50.00	56.6	113	2.19	30	70 - 130
trans-1,3-Dichloropropene	50.00	59.9	120	5.30	30	55 - 140
Ethylbenzene	50.00	51.3	103	3.65	30	75 - 125
Hexachlorobutadiene	50.00	55.6	111	11.6	30	50 - 140
2-Hexanone	100.0	95.6	95.6	0.925	30	55 - 130
Isopropylbenzene	50.00	59.2	118	1.71	30	75 - 125
p-Isopropyltoluene	50.00	54.8	110	1.44	30	75 - 130
Methylene chloride	50.00	56.5	113	0.559	30	55 - 140
Naphthalene	50.00	48.2	96.4	8.83	30	55 - 140
4-Methyl-2-pentanone	100.0	108	108	3.51	30	60 - 135
Methyl t-Butyl Ether	100.0	118	118	2.22	30	65 - 125
n-Propylbenzene	50.00	50.5	101	2.85	30	70 - 130
Styrene	50.00	55.2	110	0.986	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	47.6	95.2	3.12	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	55.8	112	2.30	30	80 - 130
Tetrachloroethene	50.00	54.5	109	3.48	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B18011
Laboratory ID: 1B18011-BSD1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	50.00	50.1	100	2.89	30	75 - 120
1,2,3-Trichlorobenzene	50.00	47.7	95.4	9.28	30	55 - 140
1,2,4-Trichlorobenzene	50.00	50.6	101	4.02	30	65 - 135
1,1,2-Trichloroethane	50.00	49.0	98.1	1.05	30	75 - 125
1,1,1-Trichloroethane	50.00	60.6	121	0.335	30	65 - 130
Trichloroethene	50.00	57.9	116	4.46	30	70 - 125
Trichlorofluoromethane	50.00	61.5	123	2.98	30	60 - 145
1,2,3-Trichloropropane	50.00	52.4	105	5.30	30	75 - 125
1,3,5-Trimethylbenzene	50.00	54.7	109	0.848	30	75 - 130
1,2,4-Trimethylbenzene	50.00	54.6	109	0.165	30	75 - 130
Vinyl chloride	50.00	56.6	113	3.98	30	50 - 145
m,p-Xylene	100.0	105	105	2.28	30	75 - 130
o-Xylene	50.00	52.2	104	0.904	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B19002
Laboratory ID: 1B19002-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	116	116	40 - 140
Benzene	50.00	52.2	104	80 - 120
Bromobenzene	50.00	52.6	105	75 - 125
Bromochloromethane	50.00	56.1	112	65 - 130
Bromodichloromethane	**50.00**	**69.8**	**140**	**75 - 120**
Bromoform	50.00	60.8	122	70 - 130
Bromomethane	50.00	27.4	54.7	30 - 145
n-Butylbenzene	50.00	52.0	104	70 - 135
2-Butanone	100.0	96.7	96.7	30 - 150
sec-Butylbenzene	50.00	52.8	106	70 - 125
tert-Butylbenzene	50.00	54.4	109	70 - 130
Carbon disulfide	50.00	58.9	118	35 - 160
Carbon tetrachloride	50.00	64.4	129	65 - 140
Chlorobenzene	50.00	53.4	107	80 - 120
Chloroethane	50.00	60.8	122	60 - 135
Chloroform	50.00	56.2	112	65 - 135
Chloromethane	50.00	55.6	111	40 - 125
2-Chlorotoluene	50.00	51.0	102	75 - 125
4-Chlorotoluene	50.00	53.2	106	75 - 130
Dibromochloromethane	50.00	61.3	123	60 - 135
1,2-Dibromo-3-chloropropane	50.00	53.5	107	50 - 130
1,2-Dibromoethane (EDB)	50.00	54.6	109	80 - 120
Dibromomethane	50.00	57.6	115	75 - 125
1,2-Dichlorobenzene	50.00	54.2	108	70 - 120
1,3-Dichlorobenzene	50.00	52.6	105	75 - 125
1,4-Dichlorobenzene	50.00	51.7	103	75 - 125
Dichlorodifluoromethane	**50.00**	**95.1**	**190**	**30 - 155**
1,1-Dichloroethane	50.00	54.5	109	70 - 135
1,2-Dichloroethane	50.00	61.4	123	70 - 130
1,1-Dichloroethene	50.00	59.1	118	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B19002
Laboratory ID: 1B19002-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	52.9	106	70 - 125
trans-1,2-Dichloroethene	50.00	54.7	109	60 - 140
1,2-Dichloropropane	50.00	53.7	107	75 - 125
1,3-Dichloropropane	50.00	52.4	105	75 - 125
2,2-Dichloropropane	50.00	57.1	114	70 - 135
1,1-Dichloropropene	50.00	56.4	113	75 - 130
cis-1,3-Dichloropropene	50.00	56.0	112	70 - 130
trans-1,3-Dichloropropene	50.00	61.8	124	55 - 140
Ethylbenzene	50.00	52.7	105	75 - 125
Hexachlorobutadiene	50.00	54.5	109	50 - 140
2-Hexanone	100.0	95.2	95.2	55 - 130
Isopropylbenzene	50.00	56.7	113	75 - 125
p-Isopropyltoluene	50.00	53.4	107	75 - 130
Methylene chloride	50.00	53.3	107	55 - 140
Naphthalene	50.00	51.8	104	55 - 140
4-Methyl-2-pentanone	100.0	115	115	60 - 135
Methyl t-Butyl Ether	100.0	112	112	65 - 125
n-Propylbenzene	50.00	53.2	106	70 - 130
Styrene	50.00	55.2	110	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.5	99.0	65 - 130
1,1,1,2-Tetrachloroethane	**50.00**	**66.7**	**133**	**80 - 130**
Tetrachloroethene	50.00	51.9	104	45 - 150
Toluene	50.00	49.6	99.2	75 - 120
1,2,3-Trichlorobenzene	50.00	48.4	96.9	55 - 140
1,2,4-Trichlorobenzene	50.00	48.4	96.7	65 - 135
1,1,2-Trichloroethane	50.00	51.0	102	75 - 125
1,1,1-Trichloroethane	50.00	63.2	126	65 - 130
Trichloroethene	50.00	57.2	114	70 - 125
Trichlorofluoromethane	50.00	67.3	135	60 - 145
1,2,3-Trichloropropane	50.00	55.9	112	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B19002	Laboratory ID:	1B19002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	52.5	105	75 - 130
1,2,4-Trimethylbenzene	50.00	53.8	108	75 - 130
Vinyl chloride	50.00	61.3	123	50 - 145
m,p-Xylene	100.0	97.3	97.3	75 - 130
o-Xylene	50.00	50.5	101	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B21012
Laboratory ID: 1B21012-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	118	118	40 - 140
Benzene	50.00	52.7	105	80 - 120
Bromobenzene	50.00	55.0	110	75 - 125
Bromochloromethane	50.00	55.1	110	65 - 130
Bromodichloromethane	50.00	58.2	116	75 - 120
Bromoform	50.00	62.5	125	70 - 130
Bromomethane	50.00	52.6	105	30 - 145
n-Butylbenzene	50.00	52.9	106	70 - 135
2-Butanone	100.0	101	101	30 - 150
sec-Butylbenzene	50.00	52.3	105	70 - 125
tert-Butylbenzene	50.00	54.1	108	70 - 130
Carbon disulfide	50.00	51.1	102	35 - 160
Carbon tetrachloride	50.00	59.9	120	65 - 140
Chlorobenzene	50.00	50.1	100	80 - 120
Chloroethane	50.00	55.6	111	60 - 135
Chloroform	50.00	54.8	110	65 - 135
Chloromethane	50.00	53.3	107	40 - 125
2-Chlorotoluene	50.00	53.5	107	75 - 125
4-Chlorotoluene	50.00	52.1	104	75 - 130
Dibromochloromethane	50.00	58.2	116	60 - 135
1,2-Dibromo-3-chloropropane	50.00	56.0	112	50 - 130
1,2-Dibromoethane (EDB)	50.00	51.5	103	80 - 120
Dibromomethane	50.00	53.7	107	75 - 125
1,2-Dichlorobenzene	50.00	52.8	106	70 - 120
1,3-Dichlorobenzene	50.00	52.2	104	75 - 125
1,4-Dichlorobenzene	50.00	51.5	103	75 - 125
Dichlorodifluoromethane	50.00	61.6	123	30 - 155
1,1-Dichloroethane	50.00	54.8	110	70 - 135
1,2-Dichloroethane	50.00	58.7	117	70 - 130
1,1-Dichloroethene	50.00	59.2	118	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B21012
Laboratory ID: 1B21012-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	54.8	110	70 - 125
trans-1,2-Dichloroethene	50.00	55.8	112	60 - 140
1,2-Dichloropropane	50.00	50.7	101	75 - 125
1,3-Dichloropropane	50.00	49.8	99.5	75 - 125
2,2-Dichloropropane	50.00	51.6	103	70 - 135
1,1-Dichloropropene	50.00	58.0	116	75 - 130
cis-1,3-Dichloropropene	50.00	53.0	106	70 - 130
trans-1,3-Dichloropropene	50.00	60.3	121	55 - 140
Ethylbenzene	50.00	51.9	104	75 - 125
Hexachlorobutadiene	50.00	63.4	127	50 - 140
2-Hexanone	100.0	101	101	55 - 130
Isopropylbenzene	50.00	58.0	116	75 - 125
p-Isopropyltoluene	50.00	55.8	112	75 - 130
Methylene chloride	50.00	52.9	106	55 - 140
Naphthalene	50.00	51.4	103	55 - 140
4-Methyl-2-pentanone	100.0	105	105	60 - 135
Methyl t-Butyl Ether	100.0	106	106	65 - 125
n-Propylbenzene	50.00	53.1	106	70 - 130
Styrene	50.00	54.5	109	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.0	97.9	65 - 130
1,1,1,2-Tetrachloroethane	50.00	56.0	112	80 - 130
Tetrachloroethene	50.00	54.7	109	45 - 150
Toluene	50.00	49.4	98.8	75 - 120
1,2,3-Trichlorobenzene	50.00	53.4	107	55 - 140
1,2,4-Trichlorobenzene	50.00	54.5	109	65 - 135
1,1,2-Trichloroethane	50.00	49.4	98.8	75 - 125
1,1,1-Trichloroethane	50.00	57.9	116	65 - 130
Trichloroethene	50.00	54.0	108	70 - 125
Trichlorofluoromethane	50.00	57.1	114	60 - 145
1,2,3-Trichloropropane	50.00	52.8	106	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B21012
Laboratory ID: 1B21012-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	55.4	111	75 - 130
1,2,4-Trimethylbenzene	50.00	55.2	110	75 - 130
Vinyl chloride	50.00	54.3	109	50 - 145
m,p-Xylene	100.0	103	103	75 - 130
o-Xylene	50.00	52.5	105	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	122	122	3.55	30	40 - 140
Benzene	50.00	46.4	92.8	12.8	30	80 - 120
Bromobenzene	50.00	48.1	96.2	13.4	30	75 - 125
Bromochloromethane	50.00	50.7	101	8.18	30	65 - 130
Bromodichloromethane	50.00	56.4	113	3.05	30	75 - 120
Bromoform	50.00	60.5	121	3.16	30	70 - 130
Bromomethane	50.00	38.6	77.2	30.8 *	30	30 - 145
n-Butylbenzene	50.00	45.3	90.6	15.4	30	70 - 135
2-Butanone	100.0	101	101	0.646	30	30 - 150
sec-Butylbenzene	50.00	46.1	92.2	12.6	30	70 - 125
tert-Butylbenzene	50.00	48.3	96.6	11.4	30	70 - 130
Carbon disulfide	50.00	45.8	91.6	10.9	30	35 - 160
Carbon tetrachloride	50.00	57.4	115	4.30	30	65 - 140
Chlorobenzene	50.00	45.0	89.9	10.7	30	80 - 120
Chloroethane	50.00	49.2	98.5	12.2	30	60 - 135
Chloroform	50.00	51.1	102	6.98	30	65 - 135
Chloromethane	50.00	43.8	87.5	19.6	30	40 - 125
2-Chlorotoluene	50.00	45.0	90.1	17.1	30	75 - 125
4-Chlorotoluene	50.00	46.2	92.4	12.0	30	75 - 130
Dibromochloromethane	50.00	54.0	108	7.44	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	46.4	92.8	18.8	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	49.4	98.8	4.27	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B21012
Laboratory ID: 1B21012-BSD1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibromomethane	50.00	51.6	103	4.02	30	75 - 125
1,2-Dichlorobenzene	50.00	46.7	93.5	12.2	30	70 - 120
1,3-Dichlorobenzene	50.00	46.6	93.3	11.3	30	75 - 125
1,4-Dichlorobenzene	50.00	45.1	90.2	13.3	30	75 - 125
Dichlorodifluoromethane	50.00	59.3	119	3.73	30	30 - 155
1,1-Dichloroethane	50.00	49.1	98.2	10.9	30	70 - 135
1,2-Dichloroethane	50.00	58.6	117	0.236	30	70 - 130
1,1-Dichloroethene	50.00	53.9	108	9.44	30	70 - 130
cis-1,2-Dichloroethene	50.00	49.4	98.8	10.4	30	70 - 125
trans-1,2-Dichloroethene	50.00	47.2	94.4	16.7	30	60 - 140
1,2-Dichloropropane	50.00	45.3	90.7	11.2	30	75 - 125
1,3-Dichloropropane	50.00	45.3	90.6	9.41	30	75 - 125
2,2-Dichloropropane	50.00	48.2	96.5	6.83	30	70 - 135
1,1-Dichloropropene	50.00	51.7	103	11.5	30	75 - 130
cis-1,3-Dichloropropene	50.00	48.3	96.6	9.35	30	70 - 130
trans-1,3-Dichloropropene	50.00	53.4	107	12.0	30	55 - 140
Ethylbenzene	50.00	48.2	96.3	7.38	30	75 - 125
Hexachlorobutadiene	50.00	50.8	102	22.2	30	50 - 140
2-Hexanone	100.0	104	104	3.28	30	55 - 130
Isopropylbenzene	50.00	55.6	111	4.31	30	75 - 125
p-Isopropyltoluene	50.00	49.0	97.9	13.0	30	75 - 130
Methylene chloride	50.00	46.9	93.7	12.1	30	55 - 140
Naphthalene	50.00	43.2	86.4	17.2	30	55 - 140
4-Methyl-2-pentanone	100.0	112	112	6.02	30	60 - 135
Methyl t-Butyl Ether	100.0	101	101	5.02	30	65 - 125
n-Propylbenzene	50.00	46.6	93.1	13.1	30	70 - 130
Styrene	50.00	49.8	99.5	9.11	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	43.5	87.0	11.9	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	52.7	105	6.11	30	80 - 130
Tetrachloroethene	50.00	48.9	97.8	11.3	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B21012
Laboratory ID: 1B21012-BSD1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	50.00	44.1	88.1	11.4	30	75 - 120
1,2,3-Trichlorobenzene	50.00	43.5	87.0	20.5	30	55 - 140
1,2,4-Trichlorobenzene	50.00	43.4	86.7	22.8	30	65 - 135
1,1,2-Trichloroethane	50.00	44.1	88.1	11.4	30	75 - 125
1,1,1-Trichloroethane	50.00	55.2	110	4.77	30	65 - 130
Trichloroethene	50.00	48.9	97.8	9.87	30	70 - 125
Trichlorofluoromethane	50.00	57.5	115	0.614	30	60 - 145
1,2,3-Trichloropropane	50.00	52.3	105	0.867	30	75 - 125
1,3,5-Trimethylbenzene	50.00	48.6	97.2	13.1	30	75 - 130
1,2,4-Trimethylbenzene	50.00	49.2	98.3	11.6	30	75 - 130
Vinyl chloride	50.00	48.1	96.1	12.2	30	50 - 145
m,p-Xylene	100.0	99.2	99.2	4.01	30	75 - 130
o-Xylene	50.00	49.8	99.6	5.29	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B22009
Laboratory ID: 1B22009-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	123	123	40 - 140
Benzene	50.00	52.2	104	80 - 120
Bromobenzene	50.00	53.5	107	75 - 125
Bromochloromethane	50.00	54.8	110	65 - 130
Bromodichloromethane	**50.00**	**68.8**	**138**	**75 - 120**
Bromoform	50.00	61.7	123	70 - 130
Bromomethane	50.00	31.8	63.6	30 - 145
n-Butylbenzene	50.00	53.3	107	70 - 135
2-Butanone	100.0	110	110	30 - 150
sec-Butylbenzene	50.00	53.9	108	70 - 125
tert-Butylbenzene	50.00	55.4	111	70 - 130
Carbon disulfide	50.00	59.0	118	35 - 160
Carbon tetrachloride	50.00	64.3	129	65 - 140
Chlorobenzene	50.00	53.1	106	80 - 120
Chloroethane	50.00	61.9	124	60 - 135
Chloroform	50.00	57.2	114	65 - 135
Chloromethane	50.00	58.6	117	40 - 125
2-Chlorotoluene	50.00	54.0	108	75 - 125
4-Chlorotoluene	50.00	54.5	109	75 - 130
Dibromochloromethane	50.00	61.4	123	60 - 135
1,2-Dibromo-3-chloropropane	50.00	51.4	103	50 - 130
1,2-Dibromoethane (EDB)	50.00	54.7	109	80 - 120
Dibromomethane	50.00	58.4	117	75 - 125
1,2-Dichlorobenzene	50.00	54.3	109	70 - 120
1,3-Dichlorobenzene	50.00	54.9	110	75 - 125
1,4-Dichlorobenzene	50.00	50.8	102	75 - 125
Dichlorodifluoromethane	**50.00**	**86.5**	**173**	**30 - 155**
1,1-Dichloroethane	50.00	55.3	111	70 - 135
1,2-Dichloroethane	50.00	60.9	122	70 - 130
1,1-Dichloroethene	50.00	58.0	116	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B22009
Laboratory ID: 1B22009-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	54.3	109	70 - 125
trans-1,2-Dichloroethene	50.00	55.8	112	60 - 140
1,2-Dichloropropane	50.00	53.3	107	75 - 125
1,3-Dichloropropane	50.00	52.5	105	75 - 125
2,2-Dichloropropane	50.00	57.8	116	70 - 135
1,1-Dichloropropene	50.00	57.0	114	75 - 130
cis-1,3-Dichloropropene	50.00	55.1	110	70 - 130
trans-1,3-Dichloropropene	50.00	62.2	124	55 - 140
Ethylbenzene	50.00	53.1	106	75 - 125
Hexachlorobutadiene	50.00	56.4	113	50 - 140
2-Hexanone	100.0	106	106	55 - 130
Isopropylbenzene	50.00	57.2	114	75 - 125
p-Isopropyltoluene	50.00	53.8	108	75 - 130
Methylene chloride	50.00	53.0	106	55 - 140
Naphthalene	50.00	52.4	105	55 - 140
4-Methyl-2-pentanone	100.0	124	124	60 - 135
Methyl t-Butyl Ether	100.0	108	108	65 - 125
n-Propylbenzene	50.00	54.6	109	70 - 130
Styrene	50.00	54.4	109	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.9	99.7	65 - 130
1,1,1,2-Tetrachloroethane	**50.00**	**66.9**	**134**	**80 - 130**
Tetrachloroethene	50.00	53.0	106	45 - 150
Toluene	50.00	50.5	101	75 - 120
1,2,3-Trichlorobenzene	50.00	50.4	101	55 - 140
1,2,4-Trichlorobenzene	50.00	50.1	100	65 - 135
1,1,2-Trichloroethane	50.00	51.0	102	75 - 125
1,1,1-Trichloroethane	50.00	63.7	127	65 - 130
Trichloroethene	50.00	57.6	115	70 - 125
Trichlorofluoromethane	50.00	64.5	129	60 - 145
1,2,3-Trichloropropane	50.00	57.7	115	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B22009	Laboratory ID:	1B22009-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	54.6	109	75 - 130
1,2,4-Trimethylbenzene	50.00	55.1	110	75 - 130
Vinyl chloride	50.00	63.1	126	50 - 145
m,p-Xylene	100.0	99.7	99.7	75 - 130
o-Xylene	50.00	52.0	104	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B23016
Laboratory ID: 1B23016-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	115	115	40 - 140
Benzene	50.00	51.0	102	80 - 120
Bromobenzene	50.00	54.4	109	75 - 125
Bromochloromethane	50.00	58.5	117	65 - 130
Bromodichloromethane	50.00	59.9	120	75 - 120
Bromoform	50.00	64.4	129	70 - 130
Bromomethane	50.00	54.1	108	30 - 145
n-Butylbenzene	50.00	49.0	98.0	70 - 135
2-Butanone	100.0	89.4	89.4	30 - 150
sec-Butylbenzene	50.00	50.7	101	70 - 125
tert-Butylbenzene	50.00	51.7	103	70 - 130
Carbon disulfide	50.00	50.5	101	35 - 160
Carbon tetrachloride	50.00	60.4	121	65 - 140
Chlorobenzene	50.00	50.3	101	80 - 120
Chloroethane	50.00	53.7	107	60 - 135
Chloroform	50.00	56.2	112	65 - 135
Chloromethane	50.00	52.4	105	40 - 125
2-Chlorotoluene	50.00	49.6	99.1	75 - 125
4-Chlorotoluene	50.00	51.1	102	75 - 130
Dibromochloromethane	50.00	60.2	120	60 - 135
1,2-Dibromo-3-chloropropane	50.00	56.6	113	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.8	108	80 - 120
Dibromomethane	50.00	58.4	117	75 - 125
1,2-Dichlorobenzene	50.00	52.1	104	70 - 120
1,3-Dichlorobenzene	50.00	51.2	102	75 - 125
1,4-Dichlorobenzene	50.00	50.2	100	75 - 125
Dichlorodifluoromethane	50.00	58.3	117	30 - 155
1,1-Dichloroethane	50.00	54.7	109	70 - 135
1,2-Dichloroethane	50.00	62.2	124	70 - 130
1,1-Dichloroethene	50.00	58.7	117	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B23016
Laboratory ID: 1B23016-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	54.9	110	70 - 125
trans-1,2-Dichloroethene	50.00	55.2	110	60 - 140
1,2-Dichloropropane	50.00	51.8	104	75 - 125
1,3-Dichloropropane	50.00	51.0	102	75 - 125
2,2-Dichloropropane	50.00	55.6	111	70 - 135
1,1-Dichloropropene	50.00	57.7	115	75 - 130
cis-1,3-Dichloropropene	50.00	54.9	110	70 - 130
trans-1,3-Dichloropropene	50.00	62.2	124	55 - 140
Ethylbenzene	50.00	50.9	102	75 - 125
Hexachlorobutadiene	50.00	59.9	120	50 - 140
2-Hexanone	100.0	93.9	93.9	55 - 130
Isopropylbenzene	50.00	56.5	113	75 - 125
p-Isopropyltoluene	50.00	53.0	106	75 - 130
Methylene chloride	50.00	53.6	107	55 - 140
Naphthalene	50.00	51.0	102	55 - 140
4-Methyl-2-pentanone	100.0	100	100	60 - 135
Methyl t-Butyl Ether	100.0	116	116	65 - 125
n-Propylbenzene	50.00	50.6	101	70 - 130
Styrene	50.00	54.1	108	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.0	98.0	65 - 130
1,1,1,2-Tetrachloroethane	50.00	56.2	112	80 - 130
Tetrachloroethene	50.00	53.5	107	45 - 150
Toluene	50.00	49.6	99.2	75 - 120
1,2,3-Trichlorobenzene	50.00	52.2	104	55 - 140
1,2,4-Trichlorobenzene	50.00	52.2	104	65 - 135
1,1,2-Trichloroethane	50.00	50.3	101	75 - 125
1,1,1-Trichloroethane	50.00	58.8	118	65 - 130
Trichloroethene	50.00	54.9	110	70 - 125
Trichlorofluoromethane	50.00	60.3	121	60 - 145
1,2,3-Trichloropropane	50.00	52.4	105	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B23016
Laboratory ID: 1B23016-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	53.5	107	75 - 130
1,2,4-Trimethylbenzene	50.00	53.0	106	75 - 130
Vinyl chloride	50.00	54.3	109	50 - 145
m,p-Xylene	100.0	105	105	75 - 130
o-Xylene	50.00	52.0	104	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	118	118		2.54	30	40 - 140
Benzene	50.00	52.1	104		2.19	30	80 - 120
Bromobenzene	50.00	55.5	111		1.95	30	75 - 125
Bromochloromethane	50.00	58.8	118		0.478	30	65 - 130
Bromodichloromethane	**50.00**	**63.6**	**127**	*	**5.89**	**30**	**75 - 120**
Bromoform	**50.00**	**68.5**	**137**	*	**6.15**	**30**	**70 - 130**
Bromomethane	50.00	47.6	95.2		12.7	30	30 - 145
n-Butylbenzene	50.00	48.9	97.8		0.205	30	70 - 135
2-Butanone	100.0	92.5	92.5		3.38	30	30 - 150
sec-Butylbenzene	50.00	50.9	102		0.450	30	70 - 125
tert-Butylbenzene	50.00	51.7	103		0.0304	30	70 - 130
Carbon disulfide	50.00	48.2	96.5		4.50	30	35 - 160
Carbon tetrachloride	50.00	61.1	122		1.27	30	65 - 140
Chlorobenzene	50.00	49.5	99.0		1.62	30	80 - 120
Chloroethane	50.00	51.0	102		5.23	30	60 - 135
Chloroform	50.00	57.5	115		2.36	30	65 - 135
Chloromethane	50.00	48.1	96.2		8.60	30	40 - 125
2-Chlorotoluene	50.00	51.7	103		4.27	30	75 - 125
4-Chlorotoluene	50.00	51.5	103		0.852	30	75 - 130
Dibromochloromethane	50.00	62.3	125		3.58	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	56.8	114		0.389	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	55.8	112		3.65	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B23016
Laboratory ID: 1B23016-BSD1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibromomethane	50.00	59.2	118	1.47	30	75 - 125
1,2-Dichlorobenzene	50.00	53.5	107	2.65	30	70 - 120
1,3-Dichlorobenzene	50.00	52.3	105	2.21	30	75 - 125
1,4-Dichlorobenzene	50.00	51.5	103	2.45	30	75 - 125
Dichlorodifluoromethane	50.00	55.2	110	5.56	30	30 - 155
1,1-Dichloroethane	50.00	53.3	107	2.48	30	70 - 135
1,2-Dichloroethane	**50.00**	**67.3**	**135 ***	**7.76**	**30**	**70 - 130**
1,1-Dichloroethene	50.00	55.6	111	5.45	30	70 - 130
cis-1,2-Dichloroethene	50.00	55.3	111	0.676	30	70 - 125
trans-1,2-Dichloroethene	50.00	51.8	104	6.39	30	60 - 140
1,2-Dichloropropane	50.00	51.9	104	0.163	30	75 - 125
1,3-Dichloropropane	50.00	51.3	103	0.609	30	75 - 125
2,2-Dichloropropane	50.00	47.2	94.4	16.3	30	70 - 135
1,1-Dichloropropene	50.00	56.0	112	2.98	30	75 - 130
cis-1,3-Dichloropropene	50.00	55.1	110	0.307	30	70 - 130
trans-1,3-Dichloropropene	50.00	62.1	124	0.182	30	55 - 140
Ethylbenzene	50.00	53.0	106	4.03	30	75 - 125
Hexachlorobutadiene	50.00	54.7	109	9.16	30	50 - 140
2-Hexanone	100.0	98.3	98.3	4.60	30	55 - 130
Isopropylbenzene	50.00	59.8	120	5.81	30	75 - 125
p-Isopropyltoluene	50.00	53.9	108	1.68	30	75 - 130
Methylene chloride	50.00	54.8	110	2.31	30	55 - 140
Naphthalene	50.00	51.6	103	1.22	30	55 - 140
4-Methyl-2-pentanone	100.0	105	105	5.02	30	60 - 135
Methyl t-Butyl Ether	100.0	117	117	0.723	30	65 - 125
n-Propylbenzene	50.00	51.2	102	1.31	30	70 - 130
Styrene	50.00	55.0	110	1.54	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	50.7	101	3.35	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	58.6	117	4.22	30	80 - 130
Tetrachloroethene	50.00	51.0	102	4.81	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B23016
Laboratory ID: 1B23016-BSD1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	50.00	48.3	96.6	2.64	30	75 - 120
1,2,3-Trichlorobenzene	50.00	49.2	98.4	5.89	30	55 - 140
1,2,4-Trichlorobenzene	50.00	50.6	101	3.21	30	65 - 135
1,1,2-Trichloroethane	50.00	50.7	101	0.803	30	75 - 125
1,1,1-Trichloroethane	50.00	60.6	121	2.99	30	65 - 130
Trichloroethene	50.00	55.3	111	0.695	30	70 - 125
Trichlorofluoromethane	50.00	58.6	117	2.91	30	60 - 145
1,2,3-Trichloropropane	50.00	57.2	114	8.66	30	75 - 125
1,3,5-Trimethylbenzene	50.00	53.4	107	0.320	30	75 - 130
1,2,4-Trimethylbenzene	50.00	55.9	112	5.34	30	75 - 130
Vinyl chloride	50.00	51.4	103	5.47	30	50 - 145
m,p-Xylene	100.0	105	105	0.192	30	75 - 130
o-Xylene	50.00	54.2	108	4.10	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B24002
Laboratory ID: 1B24002-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	116	116	40 - 140
Benzene	50.00	51.6	103	80 - 120
Bromobenzene	50.00	54.4	109	75 - 125
Bromochloromethane	50.00	57.1	114	65 - 130
Bromodichloromethane	50.00	59.5	119	75 - 120
Bromoform	50.00	61.7	123	70 - 130
Bromomethane	50.00	54.4	109	30 - 145
n-Butylbenzene	50.00	52.2	104	70 - 135
2-Butanone	100.0	99.2	99.2	30 - 150
sec-Butylbenzene	50.00	53.3	107	70 - 125
tert-Butylbenzene	50.00	54.4	109	70 - 130
Carbon disulfide	50.00	51.7	103	35 - 160
Carbon tetrachloride	50.00	60.8	122	65 - 140
Chlorobenzene	50.00	50.2	100	80 - 120
Chloroethane	50.00	53.7	107	60 - 135
Chloroform	50.00	55.3	111	65 - 135
Chloromethane	50.00	52.9	106	40 - 125
2-Chlorotoluene	50.00	51.5	103	75 - 125
4-Chlorotoluene	50.00	51.4	103	75 - 130
Dibromochloromethane	50.00	57.6	115	60 - 135
1,2-Dibromo-3-chloropropane	50.00	53.1	106	50 - 130
1,2-Dibromoethane (EDB)	50.00	52.9	106	80 - 120
Dibromomethane	50.00	54.2	108	75 - 125
1,2-Dichlorobenzene	50.00	53.7	107	70 - 120
1,3-Dichlorobenzene	50.00	52.2	104	75 - 125
1,4-Dichlorobenzene	50.00	50.9	102	75 - 125
Dichlorodifluoromethane	50.00	58.4	117	30 - 155
1,1-Dichloroethane	50.00	54.8	110	70 - 135
1,2-Dichloroethane	50.00	58.9	118	70 - 130
1,1-Dichloroethene	50.00	60.4	121	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B24002
Laboratory ID: 1B24002-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	55.0	110	70 - 125
trans-1,2-Dichloroethene	50.00	54.2	108	60 - 140
1,2-Dichloropropane	50.00	49.4	98.8	75 - 125
1,3-Dichloropropane	50.00	48.7	97.5	75 - 125
2,2-Dichloropropane	50.00	58.6	117	70 - 135
1,1-Dichloropropene	50.00	57.7	115	75 - 130
cis-1,3-Dichloropropene	50.00	52.2	104	70 - 130
trans-1,3-Dichloropropene	50.00	61.9	124	55 - 140
Ethylbenzene	50.00	53.0	106	75 - 125
Hexachlorobutadiene	50.00	63.8	128	50 - 140
2-Hexanone	100.0	102	102	55 - 130
Isopropylbenzene	50.00	58.8	118	75 - 125
p-Isopropyltoluene	50.00	55.1	110	75 - 130
Methylene chloride	50.00	48.8	97.7	55 - 140
Naphthalene	50.00	49.9	99.8	55 - 140
4-Methyl-2-pentanone	100.0	104	104	60 - 135
Methyl t-Butyl Ether	100.0	109	109	65 - 125
n-Propylbenzene	50.00	52.9	106	70 - 130
Styrene	50.00	55.4	111	65 - 135
1,1,2,2-Tetrachloroethane	50.00	47.6	95.1	65 - 130
1,1,1,2-Tetrachloroethane	50.00	57.2	114	80 - 130
Tetrachloroethene	50.00	55.8	112	45 - 150
Toluene	50.00	51.4	103	75 - 120
1,2,3-Trichlorobenzene	50.00	51.7	103	55 - 140
1,2,4-Trichlorobenzene	50.00	53.0	106	65 - 135
1,1,2-Trichloroethane	50.00	46.7	93.3	75 - 125
1,1,1-Trichloroethane	50.00	58.9	118	65 - 130
Trichloroethene	50.00	55.9	112	70 - 125
Trichlorofluoromethane	50.00	60.1	120	60 - 145
1,2,3-Trichloropropane	50.00	51.8	104	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B24002	Laboratory ID:	1B24002-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	55.0	110	75 - 130
1,2,4-Trimethylbenzene	50.00	56.1	112	75 - 130
Vinyl chloride	50.00	55.3	111	50 - 145
m,p-Xylene	100.0	105	105	75 - 130
o-Xylene	50.00	51.2	102	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B24021
Laboratory ID: 1B24021-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	121	121	40 - 140
Benzene	50.00	47.3	94.7	80 - 120
Bromobenzene	50.00	54.0	108	75 - 125
Bromochloromethane	50.00	51.3	103	65 - 130
Bromodichloromethane	50.00	58.1	116	75 - 120
Bromoform	**50.00**	**66.5**	**133**	**70 - 130**
Bromomethane	50.00	24.3	48.6	30 - 145
n-Butylbenzene	50.00	51.0	102	70 - 135
2-Butanone	100.0	103	103	30 - 150
sec-Butylbenzene	50.00	52.5	105	70 - 125
tert-Butylbenzene	50.00	54.3	109	70 - 130
Carbon disulfide	50.00	28.6	57.2	35 - 160
Carbon tetrachloride	50.00	53.8	108	65 - 140
Chlorobenzene	50.00	50.5	101	80 - 120
Chloroethane	**50.00**	**28.2**	**56.4**	**60 - 135**
Chloroform	50.00	51.3	103	65 - 135
Chloromethane	**50.00**	**10.5**	**21.0**	**40 - 125**
2-Chlorotoluene	50.00	50.3	101	75 - 125
4-Chlorotoluene	50.00	49.3	98.6	75 - 130
Dibromochloromethane	50.00	59.4	119	60 - 135
1,2-Dibromo-3-chloropropane	50.00	56.9	114	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.8	108	80 - 120
Dibromomethane	50.00	52.6	105	75 - 125
1,2-Dichlorobenzene	50.00	52.7	105	70 - 120
1,3-Dichlorobenzene	50.00	49.8	99.6	75 - 125
1,4-Dichlorobenzene	50.00	52.8	106	75 - 125
Dichlorodifluoromethane	**50.00**	**2.55**	**5.11**	**30 - 155**
1,1-Dichloroethane	50.00	48.5	96.9	70 - 135
1,2-Dichloroethane	50.00	54.5	109	70 - 130
1,1-Dichloroethene	50.00	42.1	84.2	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B24021
Laboratory ID: 1B24021-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	48.9	97.7	70 - 125
trans-1,2-Dichloroethene	50.00	46.1	92.3	60 - 140
1,2-Dichloropropane	50.00	49.2	98.5	75 - 125
1,3-Dichloropropane	50.00	50.5	101	75 - 125
2,2-Dichloropropane	50.00	47.9	95.7	70 - 135
1,1-Dichloropropene	50.00	51.6	103	75 - 130
cis-1,3-Dichloropropene	50.00	51.2	102	70 - 130
trans-1,3-Dichloropropene	50.00	60.4	121	55 - 140
Ethylbenzene	50.00	53.7	107	75 - 125
Hexachlorobutadiene	50.00	62.7	125	50 - 140
2-Hexanone	100.0	109	109	55 - 130
Isopropylbenzene	50.00	59.9	120	75 - 125
p-Isopropyltoluene	50.00	54.1	108	75 - 130
Methylene chloride	50.00	45.8	91.7	55 - 140
Naphthalene	50.00	53.2	106	55 - 140
4-Methyl-2-pentanone	100.0	111	111	60 - 135
Methyl t-Butyl Ether	100.0	97.6	97.6	65 - 125
n-Propylbenzene	50.00	49.0	98.1	70 - 130
Styrene	50.00	55.8	112	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.8	99.7	65 - 130
1,1,1,2-Tetrachloroethane	50.00	56.7	113	80 - 130
Tetrachloroethene	50.00	53.6	107	45 - 150
Toluene	50.00	48.9	97.8	75 - 120
1,2,3-Trichlorobenzene	50.00	52.1	104	55 - 140
1,2,4-Trichlorobenzene	50.00	53.0	106	65 - 135
1,1,2-Trichloroethane	50.00	50.4	101	75 - 125
1,1,1-Trichloroethane	50.00	53.0	106	65 - 130
Trichloroethene	50.00	51.8	104	70 - 125
Trichlorofluoromethane	50.00	31.8	63.6	60 - 145
1,2,3-Trichloropropane	50.00	54.9	110	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B24021
Laboratory ID: 1B24021-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	52.7	105	75 - 130
1,2,4-Trimethylbenzene	50.00	53.5	107	75 - 130
Vinyl chloride	**50.00**	**15.6**	**31.3**	**50 - 145**
m,p-Xylene	100.0	104	104	75 - 130
o-Xylene	50.00	53.1	106	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	115	115		5.36	30	40 - 140
Benzene	50.00	45.3	90.7		4.29	30	80 - 120
Bromobenzene	50.00	55.2	110		2.13	30	75 - 125
Bromochloromethane	50.00	51.1	102		0.224	30	65 - 130
Bromodichloromethane	50.00	56.4	113		3.00	30	75 - 120
Bromoform	**50.00**	**65.9**	**132**	*	**0.992**	**30**	**70 - 130**
Bromomethane	50.00	20.2	40.4		18.3	30	30 - 145
n-Butylbenzene	50.00	51.4	103		0.738	30	70 - 135
2-Butanone	100.0	100	100		2.81	30	30 - 150
sec-Butylbenzene	50.00	53.3	107		1.51	30	70 - 125
tert-Butylbenzene	50.00	53.4	107		1.73	30	70 - 130
Carbon disulfide	50.00	26.7	53.4		6.96	30	35 - 160
Carbon tetrachloride	50.00	51.2	102		5.01	30	65 - 140
Chlorobenzene	50.00	48.5	97.1		3.88	30	80 - 120
Chloroethane	**50.00**	**24.1**	**48.2**	*	**15.7**	**30**	**60 - 135**
Chloroform	50.00	49.6	99.1		3.40	30	65 - 135
Chloromethane	**50.00**	**9.52**	**19.0**	*	**9.95**	**30**	**40 - 125**
2-Chlorotoluene	50.00	49.9	99.9		0.646	30	75 - 125
4-Chlorotoluene	50.00	45.0	90.1		9.08	30	75 - 130
Dibromochloromethane	50.00	58.7	117		1.19	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	55.3	111		2.97	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.9	108		0.278	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B24021
Laboratory ID: 1B24021-BSD1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibromomethane	50.00	50.8	102	3.50	30	75 - 125
1,2-Dichlorobenzene	50.00	53.9	108	2.38	30	70 - 120
1,3-Dichlorobenzene	50.00	55.0	110	9.91	30	75 - 125
1,4-Dichlorobenzene	50.00	48.0	96.1	9.53	30	75 - 125
Dichlorodifluoromethane	**50.00**	**2.20**	**4.41 ***	**14.7**	**30**	**30 - 155**
1,1-Dichloroethane	50.00	46.5	93.0	4.12	30	70 - 135
1,2-Dichloroethane	50.00	54.7	109	0.354	30	70 - 130
1,1-Dichloroethene	50.00	38.5	76.9	9.03	30	70 - 130
cis-1,2-Dichloroethene	50.00	47.9	95.8	1.93	30	70 - 125
trans-1,2-Dichloroethene	50.00	43.2	86.4	6.56	30	60 - 140
1,2-Dichloropropane	50.00	46.9	93.8	4.92	30	75 - 125
1,3-Dichloropropane	50.00	49.2	98.5	2.57	30	75 - 125
2,2-Dichloropropane	50.00	39.5	78.9	19.3	30	70 - 135
1,1-Dichloropropene	50.00	49.4	98.8	4.37	30	75 - 130
cis-1,3-Dichloropropene	50.00	49.5	98.9	3.43	30	70 - 130
trans-1,3-Dichloropropene	50.00	58.2	116	3.69	30	55 - 140
Ethylbenzene	50.00	51.8	104	3.64	30	75 - 125
Hexachlorobutadiene	50.00	58.2	116	7.37	30	50 - 140
2-Hexanone	100.0	103	103	5.15	30	55 - 130
Isopropylbenzene	50.00	59.3	119	0.943	30	75 - 125
p-Isopropyltoluene	50.00	54.6	109	1.05	30	75 - 130
Methylene chloride	50.00	43.5	87.1	5.16	30	55 - 140
Naphthalene	50.00	51.4	103	3.41	30	55 - 140
4-Methyl-2-pentanone	100.0	107	107	2.88	30	60 - 135
Methyl t-Butyl Ether	100.0	96.5	96.5	1.07	30	65 - 125
n-Propylbenzene	50.00	51.5	103	4.84	30	70 - 130
Styrene	50.00	54.6	109	2.23	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	50.4	101	1.16	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	55.9	112	1.46	30	80 - 130
Tetrachloroethene	50.00	51.7	103	3.57	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B24021
Laboratory ID: 1B24021-BSD1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	50.00	48.5	96.9		0.929	30	75 - 120
1,2,3-Trichlorobenzene	50.00	51.4	103		1.40	30	55 - 140
1,2,4-Trichlorobenzene	50.00	53.0	106		0.0377	30	65 - 135
1,1,2-Trichloroethane	50.00	50.5	101		0.282	30	75 - 125
1,1,1-Trichloroethane	50.00	50.2	100		5.38	30	65 - 130
Trichloroethene	50.00	49.1	98.2		5.38	30	70 - 125
Trichlorofluoromethane	50.00	30.8	61.7		3.07	30	60 - 145
1,2,3-Trichloropropane	50.00	55.9	112		1.75	30	75 - 125
1,3,5-Trimethylbenzene	50.00	54.0	108		2.45	30	75 - 130
1,2,4-Trimethylbenzene	50.00	55.0	110		2.64	30	75 - 130
Vinyl chloride	**50.00**	**14.3**	**28.6**	*	**8.85**	**30**	**50 - 145**
m,p-Xylene	100.0	103	103		1.34	30	75 - 130
o-Xylene	50.00	52.0	104		2.14	30	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0011

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

Batch: 1B22009

% Solids:

SDG: kirtland_004

Project: Kirtland AFB 2011

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Acetone	10000	1570	13200	117		40 - 140
Benzene	5000	4300	9360	101		80 - 120
Bromobenzene	5000	ND	5250	105		75 - 125
Bromochloromethane	5000	ND	5830	117		65 - 130
Bromodichloromethane	5000	ND	7250	145	*	75 - 120
Bromoform	5000	ND	5790	116		70 - 130
Bromomethane	5000	ND	3050	61.0		30 - 145
n-Butylbenzene	5000	ND	5240	105		70 - 135
2-Butanone	10000	485	10200	97.5		30 - 150
sec-Butylbenzene	5000	ND	5340	107		70 - 125
tert-Butylbenzene	5000	ND	5640	113		70 - 130
Carbon disulfide	5000	ND	6060	121		35 - 160
Carbon tetrachloride	5000	ND	6680	134		65 - 140
Chlorobenzene	5000	ND	5290	106		80 - 120
Chloroethane	5000	ND	5900	118		60 - 135
Chloroform	5000	ND	6060	121		65 - 135
Chloromethane	5000	ND	5810	116		40 - 125
2-Chlorotoluene	5000	ND	5290	106		75 - 125
4-Chlorotoluene	5000	ND	5400	108		75 - 130
Dibromochloromethane	5000	ND	5910	118		60 - 135
1,2-Dibromo-3-chloropropane	5000	ND	4810	96.2		50 - 130
1,2-Dibromoethane (EDB)	5000	104	5540	109		80 - 120
Dibromomethane	5000	ND	6020	120		75 - 125
1,2-Dichlorobenzene	5000	ND	5390	108		70 - 120
1,3-Dichlorobenzene	5000	ND	5130	103		75 - 125
1,4-Dichlorobenzene	5000	39.9	5470	109		75 - 125
Dichlorodifluoromethane	5000	ND	9240	185	*	30 - 155
1,1-Dichloroethane	5000	ND	5780	116		70 - 135
1,2-Dichloroethane	5000	ND	6570	131	*	70 - 130
1,1-Dichloroethene	5000	ND	6010	120		70 - 130
cis-1,2-Dichloroethene	5000	ND	5390	108		70 - 125
trans-1,2-Dichloroethene	5000	ND	5570	111		60 - 140

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B22009

% Solids:

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dichloropropane	5000	ND	5360	107		75 - 125
1,3-Dichloropropane	5000	ND	5110	102		75 - 125
2,2-Dichloropropane	5000	ND	5400	108		70 - 135
1,1-Dichloropropene	5000	ND	5890	118		75 - 130
cis-1,3-Dichloropropene	5000	ND	5470	109		70 - 130
trans-1,3-Dichloropropene	5000	ND	5870	117		55 - 140
Ethylbenzene	5000	943	6240	106		75 - 125
Hexachlorobutadiene	5000	ND	4980	99.7		50 - 140
2-Hexanone	10000	ND	9360	93.6		55 - 130
Isopropylbenzene	5000	118	5960	117		75 - 125
p-Isopropyltoluene	5000	ND	5450	109		75 - 130
Methylene chloride	5000	ND	5490	110		55 - 140
Naphthalene	5000	65.8	4990	98.5		55 - 140
4-Methyl-2-pentanone	10000	177	11500	113		60 - 135
Methyl t-Butyl Ether	10000	ND	11000	110		65 - 125
n-Propylbenzene	5000	106	5510	108		70 - 130
Styrene	5000	ND	5450	109		65 - 135
1,1,2,2-Tetrachloroethane	5000	ND	4730	94.7		65 - 130
1,1,1,2-Tetrachloroethane	5000	ND	6720	134	*	80 - 130
Tetrachloroethene	5000	ND	5310	106		45 - 150
Toluene	5000	7170	11600	87.9		75 - 120
1,2,3-Trichlorobenzene	5000	ND	4760	95.1		55 - 140
1,2,4-Trichlorobenzene	5000	ND	4850	97.0		65 - 135
1,1,2-Trichloroethane	5000	ND	4990	99.8		75 - 125
1,1,1-Trichloroethane	5000	ND	6660	133	*	65 - 130
Trichloroethene	5000	ND	6050	121		70 - 125
Trichlorofluoromethane	5000	ND	7310	146	*	60 - 145
1,2,3-Trichloropropane	5000	ND	5690	114		75 - 125
1,3,5-Trimethylbenzene	5000	86.8	5490	108		75 - 130
1,2,4-Trimethylbenzene	5000	230	5780	111		75 - 130
Vinyl chloride	5000	ND	6050	121		50 - 145
m,p-Xylene	10000	1570	11400	98.0		75 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B22009

% Solids:

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
o-Xylene	5000	749	5800	101		80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B22009

% Solids:

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Acetone	10000	13700	121	3.11		30	40 - 140
Benzene	5000	8410	82.3	10.7		30	80 - 120
Bromobenzene	5000	4680	93.7	11.4		30	75 - 125
Bromochloromethane	5000	5090	102	13.5		30	65 - 130
Bromodichloromethane	5000	6430	129	12.0	*	30	75 - 120
Bromoform	5000	5470	109	5.75		30	70 - 130
Bromomethane	5000	2800	55.9	8.70		30	30 - 145
n-Butylbenzene	5000	4650	93.1	11.9		30	70 - 135
2-Butanone	10000	10500	100	2.75		30	30 - 150
sec-Butylbenzene	5000	4690	93.9	12.8		30	70 - 125
tert-Butylbenzene	5000	4970	99.4	12.7		30	70 - 130
Carbon disulfide	5000	5340	107	12.7		30	35 - 160
Carbon tetrachloride	5000	5930	119	11.9		30	65 - 140
Chlorobenzene	5000	4800	96.1	9.70		30	80 - 120
Chloroethane	5000	5270	105	11.2		30	60 - 135
Chloroform	5000	5360	107	12.3		30	65 - 135
Chloromethane	5000	5280	106	9.64		30	40 - 125
2-Chlorotoluene	5000	4670	93.4	12.6		30	75 - 125
4-Chlorotoluene	5000	4840	96.7	11.0		30	75 - 130
Dibromochloromethane	5000	5550	111	6.38		30	60 - 135
1,2-Dibromo-3-chloropropane	5000	4670	93.4	2.94		30	50 - 130
1,2-Dibromoethane (EDB)	5000	5260	103	5.21		30	80 - 120
Dibromomethane	5000	5390	108	11.1		30	75 - 125
1,2-Dichlorobenzene	5000	4730	94.5	13.2		30	70 - 120
1,3-Dichlorobenzene	5000	4560	91.1	11.8		30	75 - 125
1,4-Dichlorobenzene	5000	4890	97.0	11.2		30	75 - 125
Dichlorodifluoromethane	5000	8740	175	5.51	*	30	30 - 155
1,1-Dichloroethane	5000	5050	101	13.3		30	70 - 135
1,2-Dichloroethane	5000	5840	117	11.6		30	70 - 130
1,1-Dichloroethene	5000	5380	108	11.2		30	70 - 130
cis-1,2-Dichloroethene	5000	4870	97.3	10.3		30	70 - 125
trans-1,2-Dichloroethene	5000	5070	101	9.51		30	60 - 140
1,2-Dichloropropane	5000	4750	95.0	12.0		30	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8260B

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B22009

% Solids:

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,3-Dichloropropane	5000	4780	95.7	6.56		30	75 - 125
2,2-Dichloropropane	5000	4680	93.7	14.1		30	70 - 135
1,1-Dichloropropene	5000	5220	104	12.1		30	75 - 130
cis-1,3-Dichloropropene	5000	4890	97.8	11.3		30	70 - 130
trans-1,3-Dichloropropene	5000	5480	110	6.84		30	55 - 140
Ethylbenzene	5000	5650	94.2	9.90		30	75 - 125
Hexachlorobutadiene	5000	4650	93.0	6.96		30	50 - 140
2-Hexanone	10000	9870	98.7	5.28		30	55 - 130
Isopropylbenzene	5000	5340	105	10.9		30	75 - 125
p-Isopropyltoluene	5000	4790	95.8	12.9		30	75 - 130
Methylene chloride	5000	4830	96.5	12.8		30	55 - 140
Naphthalene	5000	4640	91.4	7.32		30	55 - 140
4-Methyl-2-pentanone	10000	12000	118	4.37		30	60 - 135
Methyl t-Butyl Ether	10000	10100	101	8.81		30	65 - 125
n-Propylbenzene	5000	4860	95.0	12.6		30	70 - 130
Styrene	5000	5120	102	6.27		30	65 - 135
1,1,2,2-Tetrachloroethane	5000	4530	90.5	4.50		30	65 - 130
1,1,1,2-Tetrachloroethane	5000	6100	122	9.66		30	80 - 130
Tetrachloroethene	5000	4730	94.5	11.7		30	45 - 150
Toluene	5000	10900	74.0	6.21	*	30	75 - 120
1,2,3-Trichlorobenzene	5000	4390	87.8	8.02		30	55 - 140
1,2,4-Trichlorobenzene	5000	4260	85.3	12.9		30	65 - 135
1,1,2-Trichloroethane	5000	4700	94.1	5.89		30	75 - 125
1,1,1-Trichloroethane	5000	5830	117	13.2		30	65 - 130
Trichloroethene	5000	5220	104	14.6		30	70 - 125
Trichlorofluoromethane	5000	6270	125	15.3		30	60 - 145
1,2,3-Trichloropropane	5000	5470	109	4.01		30	75 - 125
1,3,5-Trimethylbenzene	5000	4820	94.7	12.8		30	75 - 130
1,2,4-Trimethylbenzene	5000	4990	95.2	14.6		30	75 - 130
Vinyl chloride	5000	5670	113	6.43		30	50 - 145
m,p-Xylene	10000	10300	87.4	9.77		30	75 - 130
o-Xylene	5000	5350	92.0	8.02		30	80 - 120

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B17009 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0020	1102135-03	02/17/11 11:15	5.00	5.00
GW0021	1102135-05	02/17/11 11:15	5.00	5.00
GW8013-TB	1102135-07	02/17/11 11:15	5.00	5.00
Blank	1B17009-BLK1	02/17/11 11:15	5.00	5.00
LCS	1B17009-BS1	02/17/11 11:15	5.00	5.00
LCS Dup	1B17009-BSD1	02/17/11 11:15	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B18011 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0022	1102141-01	02/18/11 00:00	5.00	5.00
GW8002-AB	1102141-03	02/18/11 00:00	5.00	5.00
GW8002-RB	1102141-04	02/18/11 00:00	5.00	5.00
GW8014-TB	1102141-07	02/18/11 00:00	5.00	5.00
Blank	1B18011-BLK1	02/18/11 00:00	5.00	5.00
LCS	1B18011-BS1	02/18/11 00:00	5.00	5.00
LCS Dup	1B18011-BSD1	02/18/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B19002 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0019	1102135-01RE1	02/19/11 00:00	5.00	5.00
Blank	1B19002-BLK1	02/19/11 00:00	5.00	5.00
LCS	1B19002-BS1	02/19/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B21012 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW8015-TB	1102166-05	02/21/11 00:00	5.00	5.00
Blank	1B21012-BLK1	02/21/11 00:00	5.00	5.00
LCS	1B21012-BS1	02/21/11 00:00	5.00	5.00
LCS Dup	1B21012-BSD1	02/21/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B22009 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0011	1102166-01	02/22/11 00:00	5.00	5.00
GW0031	1102166-03	02/22/11 00:00	5.00	5.00
Blank	1B22009-BLK1	02/22/11 00:00	5.00	5.00
LCS	1B22009-BS1	02/22/11 00:00	5.00	5.00
GW0011	1B22009-MS1	02/22/11 00:00	5.00	5.00
GW0011	1B22009-MSD1	02/22/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B23016 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW8016-TB	1102174-11	02/23/11 00:00	5.00	5.00
Blank	1B23016-BLK1	02/23/11 00:00	5.00	5.00
LCS	1B23016-BS1	02/23/11 00:00	5.00	5.00
LCS Dup	1B23016-BSD1	02/23/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B24002 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0009	1102179-01	02/24/11 00:00	5.00	5.00
GW8017-TB	1102179-03	02/24/11 00:00	5.00	5.00
Blank	1B24002-BLK1	02/24/11 00:00	5.00	5.00
LCS	1B24002-BS1	02/24/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B24021 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0010	1102174-01	02/24/11 00:00	5.00	5.00
GW0015	1102174-03	02/24/11 00:00	5.00	5.00
GW0036	1102174-05	02/24/11 00:00	5.00	5.00
GW0037	1102174-07	02/24/11 00:00	5.00	5.00
GW0038	1102174-09	02/24/11 00:00	5.00	5.00
Blank	1B24021-BLK1	02/24/11 00:00	5.00	5.00
LCS	1B24021-BS1	02/24/11 00:00	5.00	5.00
LCS Dup	1B24021-BSD1	02/24/11 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1213TU1.D	Injection Date:	12/13/10
Instrument ID:	MS-VOA5	Injection Time:	14:13
Sequence:	0L34902	Lab Sample ID:	0L34902-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	24.4	PASS
75	30 - 60% of 95	54.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.36	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	64.1	PASS
175	5 - 9% of 174	7.1	PASS
176	95 - 101% of 174	96	PASS
177	5 - 9% of 176	7.18	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1213TU2.D	Injection Date:	12/14/10
Instrument ID:	MS-VOA5	Injection Time:	08:57
Sequence:	0L34902	Lab Sample ID:	0L34902-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	23.1	PASS
75	30 - 60% of 95	51.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.89	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	69.4	PASS
175	5 - 9% of 174	7.71	PASS
176	95 - 101% of 174	100	PASS
177	5 - 9% of 176	6.09	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0209TU1.D	Injection Date:	02/09/11
Instrument ID:	MS-VOA3	Injection Time:	07:36
Sequence:	1B04204	Lab Sample ID:	1B04204-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.8	PASS
75	30 - 60% of 95	45.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.87	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	92.7	PASS
175	5 - 9% of 174	7.25	PASS
176	95 - 101% of 174	100	PASS
177	5 - 9% of 176	6.27	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0217TU1E.D	Injection Date:	02/17/11
Instrument ID:	MS-VOA3	Injection Time:	20:42
Sequence:	1B05006	Lab Sample ID:	1B05006-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21.8	PASS
75	30 - 60% of 95	48.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.27	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	77.2	PASS
175	5 - 9% of 174	6.98	PASS
176	95 - 101% of 174	101	PASS
177	5 - 9% of 176	6.47	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0219TU1.D	Injection Date:	02/19/11
Instrument ID:	MS-VOA3	Injection Time:	10:54
Sequence:	1B05201	Lab Sample ID:	1B05201-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	22	PASS
75	30 - 60% of 95	50.8	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.52	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	81.6	PASS
175	5 - 9% of 174	7.23	PASS
176	95 - 101% of 174	96.7	PASS
177	5 - 9% of 176	6.77	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0218TU1.D	Injection Date:	02/18/11
Instrument ID:	MS-VOA5	Injection Time:	08:13
Sequence:	1B05303	Lab Sample ID:	1B05303-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	22.2	PASS
75	30 - 60% of 95	51.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	5.83	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	91.6	PASS
175	5 - 9% of 174	7.77	PASS
176	95 - 101% of 174	97.8	PASS
177	5 - 9% of 176	6.84	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0221TU1.D	Injection Date:	02/21/11
Instrument ID:	MS-VOA5	Injection Time:	08:04
Sequence:	1B05312	Lab Sample ID:	1B05312-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	25.4	PASS
75	30 - 60% of 95	53.9	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.39	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	91.4	PASS
175	5 - 9% of 174	7.37	PASS
176	95 - 101% of 174	97.9	PASS
177	5 - 9% of 176	6.56	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0222TU1.D	Injection Date:	02/22/11
Instrument ID:	MS-VOA3	Injection Time:	07:24
Sequence:	1B05401	Lab Sample ID:	1B05401-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	21.1	PASS
75	30 - 60% of 95	50.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.02	PASS
173	Less than 2% of 174	0.714	PASS
174	50 - 200% of 95	76.9	PASS
175	5 - 9% of 174	7.63	PASS
176	95 - 101% of 174	99.7	PASS
177	5 - 9% of 176	7.31	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0223TU1.D	Injection Date:	02/23/11
Instrument ID:	MS-VOA5	Injection Time:	09:58
Sequence:	1B05514	Lab Sample ID:	1B05514-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	26.4	PASS
75	30 - 60% of 95	56	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	5.8	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	82.6	PASS
175	5 - 9% of 174	8.03	PASS
176	95 - 101% of 174	98.7	PASS
177	5 - 9% of 176	5.97	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0224TU1.D	Injection Date:	02/24/11
Instrument ID:	MS-VOA5	Injection Time:	06:25
Sequence:	1B05611	Lab Sample ID:	1B05611-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	28.6	PASS
75	30 - 60% of 95	58	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.38	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	63.4	PASS
175	5 - 9% of 174	8.38	PASS
176	95 - 101% of 174	99	PASS
177	5 - 9% of 176	6.03	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0224TU1E.D	Injection Date:	02/24/11
Instrument ID:	MS-VOA5	Injection Time:	18:59
Sequence:	1B05612	Lab Sample ID:	1B05612-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	32.6	PASS
75	30 - 60% of 95	57.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	5.89	PASS
173	Less than 2% of 174	1.22	PASS
174	50 - 200% of 95	54.7	PASS
175	5 - 9% of 174	8.22	PASS
176	95 - 101% of 174	100	PASS
177	5 - 9% of 176	7.34	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0L34902	Instrument:	MS-VOA5
Calibration:	0349002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0L34902-TUN1	1213TU1.D	12/13/10 14:13
Cal Standard	0L34902-CAL1	SEQ-CAL1.D	12/13/10 14:43
Cal Standard	0L34902-CAL2	SEQ-CAL2.D	12/13/10 15:13
Cal Standard	0L34902-CAL3	SEQ-CAL3.D	12/13/10 15:43
Cal Standard	0L34902-CAL4	SEQ-CAL4.D	12/13/10 16:14
Cal Standard	0L34902-CAL5	SEQ-CAL5.D	12/13/10 16:44
Cal Standard	0L34902-CAL6	SEQ-CAL6.D	12/13/10 17:14
Cal Standard	0L34902-CAL7	SEQ-CAL7.D	12/13/10 17:44
Cal Standard	0L34902-CAL8	SEQ-CAL8.D	12/13/10 18:14
Cal Standard	0L34902-CAL9	SEQ-CAL9.D	12/13/10 18:44
Initial Cal Check	0L34902-ICV1	SEQ-ICV1.D	12/13/10 19:14
Cal Standard	0L34902-CALA	SEQ-CALA.D	12/13/10 20:14
Cal Standard	0L34902-CALB	SEQ-CALB.D	12/13/10 20:44
Cal Standard	0L34902-CALC	SEQ-CALC.D	12/13/10 21:15
Cal Standard	0L34902-CALD	SEQ-CALD.D	12/13/10 21:45
Cal Standard	0L34902-CALE	SEQ-CALE.D	12/13/10 22:15
Cal Standard	0L34902-CALF	SEQ-CALF.D	12/13/10 22:45
Cal Standard	0L34902-CALG	SEQ-CALG.D	12/13/10 23:15
MS Tune	0L34902-TUN2	1213TU2.D	12/14/10 08:57
Cal Standard	0L34902-CALH	SEQ-CALH.D	12/14/10 09:27
Cal Standard	0L34902-CALI	SEQ-CALI.D	12/14/10 09:57
Initial Cal Check	0L34902-ICV2	SEQ-ICV3.D	12/14/10 10:27

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04204
Instrument: MS-VOA3
Calibration: 1042001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B04204-TUN1	0209TU1.D	02/09/11 07:36
Cal Standard	1B04204-CAL1	0209CAL1.D	02/09/11 08:01
Cal Standard	1B04204-CAL2	0209CAL2.D	02/09/11 08:31
Cal Standard	1B04204-CAL3	0209CAL3.D	02/09/11 09:01
Cal Standard	1B04204-CAL4	0209CAL4.D	02/09/11 09:31
Cal Standard	1B04204-CAL5	0209CAL5.D	02/09/11 10:01
Cal Standard	1B04204-CAL6	0209CAL6.D	02/09/11 10:30
Cal Standard	1B04204-CAL7	0209CAL7.D	02/09/11 11:00
Cal Standard	1B04204-CAL8	0209CAL8.D	02/09/11 11:30
Cal Standard	1B04204-CAL9	0209CAL9.D	02/09/11 12:00
Initial Cal Check	1B04204-ICV1	0209ICV1.D	02/09/11 12:30
Cal Standard	1B04204-CALA	0209CALA.D	02/09/11 13:29
Cal Standard	1B04204-CALB	0209CALB.D	02/09/11 13:59
Cal Standard	1B04204-CALC	0209CALC.D	02/09/11 14:29
Cal Standard	1B04204-CALE	0209CALE.D	02/09/11 15:34
Cal Standard	1B04204-CALF	0209CALF.D	02/09/11 16:04
Cal Standard	1B04204-CALG	0209CALG.D	02/09/11 16:34
Cal Standard	1B04204-CALH	0209CALH.D	02/09/11 17:04
Cal Standard	1B04204-CALI	0209CALI.D	02/09/11 17:33
Initial Cal Check	1B04204-ICV3	0209ICV3.D	02/09/11 18:03

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05006	Instrument:	MS-VOA3
Calibration:	1042001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05006-TUN1	0217TU1E.D	02/17/11 20:42
Calibration Check	1B05006-CCV1	0217CCVE.D	02/17/11 21:07
LCS	1B17009-BS1	0217LS1E.D	02/17/11 21:37
Blank	1B17009-BLK1	0217BL1E.D	02/17/11 23:03
GW8013-TB	1102135-07	0213507.D	02/18/11 00:33
GW0020	1102135-03	0213503.D	02/18/11 06:00
GW0021	1102135-05	0213505.D	02/18/11 06:30
LCS Dup	1B17009-BSD1	0217LCSDE.D	02/18/11 07:29

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05201	Instrument:	MS-VOA3
Calibration:	1042001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05201-TUN1	0219TU1.D	02/19/11 10:54
Calibration Check	1B05201-CCV1	0219CCV1.D	02/19/11 11:20
LCS	1B19002-BS1	0219LS1.D	02/19/11 12:08
Blank	1B19002-BLK1	0219BL1.D	02/19/11 13:35
GW0019	1102135-01RE1	0213501.D	02/19/11 15:04

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05303	Instrument:	MS-VOA5
Calibration:	0349002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05303-TUN1	0218TU1.D	02/18/11 08:13
Calibration Check	1B05303-CCV1	0218CC1.D	02/18/11 08:43
LCS	1B18011-BS1	0218LS1.D	02/18/11 09:25
Blank	1B18011-BLK1	0218BL1.D	02/18/11 10:53
GW8014-TB	1102141-07	0214107.D	02/18/11 11:23
GW8002-RB	1102141-04	0214104.D	02/18/11 12:24
GW8002-AB	1102141-03	0214103.D	02/18/11 12:54
GW0022	1102141-01	0214101.D	02/18/11 15:56
LCS Dup	1B18011-BSD1	0218LD1.D	02/18/11 20:27

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05312	Instrument:	MS-VOA5
Calibration:	0349002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05312-TUN1	0221TU1.D	02/21/11 08:04
Calibration Check	1B05312-CCV1	0221CC1.D	02/21/11 08:35
LCS	1B21012-BS1	0221LS1.D	02/21/11 09:05
Blank	1B21012-BLK1	0221BL1.D	02/21/11 10:33
GW8015-TB	1102166-05	0216605.D	02/21/11 11:07
LCS Dup	1B21012-BSD1	0221LD1.D	02/21/11 20:12

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05401	Instrument:	MS-VOA3
Calibration:	1042001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05401-TUN1	0222TU1.D	02/22/11 07:24
Calibration Check	1B05401-CCV1	0222CCV1.D	02/22/11 07:49
LCS	1B22009-BS1	0222LS1.D	02/22/11 08:19
Blank	1B22009-BLK1	0222BL1.D	02/22/11 09:45
GW0011	1102166-01	0216601D.D	02/22/11 16:43
GW0031	1102166-03	0216603D.D	02/22/11 17:12
GW0011	1B22009-MS1	0216601M.D	02/22/11 18:12
GW0011	1B22009-MSD1	0216601S.D	02/22/11 18:42

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05514	Instrument:	MS-VOA5
Calibration:	0349002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05514-TUN1	0223TU1.D	02/23/11 09:58
Calibration Check	1B05514-CCV1	0223CC1.D	02/23/11 10:28
LCS	1B23016-BS1	0223LS1.D	02/23/11 10:59
Blank	1B23016-BLK1	0223BL1.D	02/23/11 12:57
GW8016-TB	1102174-11	0217411.D	02/23/11 13:27
LCS Dup	1B23016-BSD1	0223LD1.D	02/23/11 22:01

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05611	Instrument:	MS-VOA5
Calibration:	0349002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05611-TUN1	0224TU1.D	02/24/11 06:25
Calibration Check	1B05611-CCV1	0224CC1.D	02/24/11 06:55
LCS	1B24002-BS1	0224LS1.D	02/24/11 07:25
Blank	1B24002-BLK1	0224BL1.D	02/24/11 08:54
GW8017-TB	1102179-03	0217903.D	02/24/11 09:24
GW0009	1102179-01	0217901D.D	02/24/11 16:28

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05612	Instrument:	MS-VOA5
Calibration:	0349002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05612-TUN1	0224TU1E.D	02/24/11 18:59
Calibration Check	1B05612-CCV1	0224CC1E.D	02/24/11 19:30
LCS	1B24021-BS1	0224LS1E.D	02/24/11 20:00
Blank	1B24021-BLK1	0224BL1E.D	02/24/11 21:28
GW0036	1102174-05	0217405.D	02/24/11 22:28
GW0037	1102174-07	0217407.D	02/24/11 22:59
GW0038	1102174-09	0217409.D	02/24/11 23:29
GW0010	1102174-01	0217401D.D	02/24/11 23:59
GW0015	1102174-03	0217403D.D	02/25/11 00:29
LCS Dup	1B24021-BSD1	0224LD1E.D	02/25/11 02:30

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05006
Instrument: MS-VOA3
Calibration: 1042001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05006-CCV1)			Lab File ID: 0217CCVE.D			Analyzed: 02/17/11 21:07			
Fluorobenzene	1063298	12.372	1314641	12.359	81	50 - 200	0.0130	+/-0.50	
Chlorobenzene-d5	577401	16.003	660505	15.997	87	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	638877	17.981	723449	17.974	88	50 - 200	0.0070	+/-0.50	
LCS (1B17009-BS1)			Lab File ID: 0217LS1E.D			Analyzed: 02/17/11 21:37			
Fluorobenzene	1095166	12.371	1063298	12.372	103	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	563138	16.003	577401	16.003	98	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	636330	17.98	638877	17.981	100	50 - 200	-0.0010	+/-0.50	
Blank (1B17009-BLK1)			Lab File ID: 0217BL1E.D			Analyzed: 02/17/11 23:03			
Fluorobenzene	1019789	12.372	1063298	12.372	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	521947	16.004	577401	16.003	90	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	596546	17.981	638877	17.981	93	50 - 200	0.0000	+/-0.50	
GW8013-TB (1102135-07)			Lab File ID: 0213507.D			Analyzed: 02/18/11 00:33			
Fluorobenzene	989926	12.372	1063298	12.372	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	490175	16.003	577401	16.003	85	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	580391	17.981	638877	17.981	91	50 - 200	0.0000	+/-0.50	
GW0020 (1102135-03)			Lab File ID: 0213503.D			Analyzed: 02/18/11 06:00			
Fluorobenzene	1048451	12.371	1063298	12.372	99	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	531621	16.003	577401	16.003	92	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	606442	17.981	638877	17.981	95	50 - 200	0.0000	+/-0.50	
GW0021 (1102135-05)			Lab File ID: 0213505.D			Analyzed: 02/18/11 06:30			
Fluorobenzene	1079058	12.371	1063298	12.372	101	50 - 200	-0.0010	+/-0.50	
Chlorobenzene-d5	545552	16.003	577401	16.003	94	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	630399	17.981	638877	17.981	99	50 - 200	0.0000	+/-0.50	
LCS Dup (1B17009-BSD1)			Lab File ID: 0217LCSDE.D			Analyzed: 02/18/11 07:29			
Fluorobenzene	1022568	12.365	1063298	12.372	96	50 - 200	-0.0070	+/-0.50	
Chlorobenzene-d5	528445	16.003	577401	16.003	92	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	610248	17.98	638877	17.981	96	50 - 200	-0.0010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05201
Instrument: MS-VOA3
Calibration: 1042001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05201-CCV1)			Lab File ID: 0219CCV1.D			Analyzed: 02/19/11 11:20			
Fluorobenzene	997920	12.359	1314641	12.359	76	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	549890	15.991	660505	15.997	83	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	624765	17.968	723449	17.974	86	50 - 200	-0.0060	+/-0.50	
LCS (1B19002-BS1)			Lab File ID: 0219LS1.D			Analyzed: 02/19/11 12:08			
Fluorobenzene	1044640	12.359	997920	12.359	105	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	556931	15.991	549890	15.991	101	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	628511	17.968	624765	17.968	101	50 - 200	0.0000	+/-0.50	
Blank (1B19002-BLK1)			Lab File ID: 0219BL1.D			Analyzed: 02/19/11 13:35			
Fluorobenzene	997446	12.353	997920	12.359	100	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	509423	15.991	549890	15.991	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	599983	17.968	624765	17.968	96	50 - 200	0.0000	+/-0.50	
GW0019 (1102135-01RE1)			Lab File ID: 0213501.D			Analyzed: 02/19/11 15:04			
Fluorobenzene	989827	12.359	997920	12.359	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	510495	15.991	549890	15.991	93	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	593372	17.975	624765	17.968	95	50 - 200	0.0070	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05303
Instrument: MS-VOA5
Calibration: 0349002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05303-CCV1)			Lab File ID: 0218CC1.D			Analyzed: 02/18/11 08:43			
Fluorobenzene	1081821	13.198	1337630	13.37	81	50 - 200	-0.1720	+/-0.50	
Chlorobenzene-d5	648640	16.667	758667	16.829	85	50 - 200	-0.1620	+/-0.50	
1,4-Dichlorobenzene-d4	551825	18.696	549803	18.878	100	50 - 200	-0.1820	+/-0.50	
LCS (1B18011-BS1)			Lab File ID: 0218LS1.D			Analyzed: 02/18/11 09:25			
Fluorobenzene	1195674	13.195	1081821	13.198	111	50 - 200	-0.0030	+/-0.50	
Chlorobenzene-d5	643854	16.664	648640	16.667	99	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	570143	18.694	551825	18.696	103	50 - 200	-0.0020	+/-0.50	
Blank (1B18011-BLK1)			Lab File ID: 0218BL1.D			Analyzed: 02/18/11 10:53			
Fluorobenzene	997483	13.187	1081821	13.198	92	50 - 200	-0.0110	+/-0.50	
Chlorobenzene-d5	512253	16.666	648640	16.667	79	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	451060	18.696	551825	18.696	82	50 - 200	0.0000	+/-0.50	
GW8014-TB (1102141-07)			Lab File ID: 0214107.D			Analyzed: 02/18/11 11:23			
Fluorobenzene	931779	13.192	1081821	13.198	86	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	503486	16.671	648640	16.667	78	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	434385	18.701	551825	18.696	79	50 - 200	0.0050	+/-0.50	
GW8002-RB (1102141-04)			Lab File ID: 0214104.D			Analyzed: 02/18/11 12:24			
Fluorobenzene	949479	13.192	1081821	13.198	88	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	483353	16.67	648640	16.667	75	50 - 200	0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	433610	18.7	551825	18.696	79	50 - 200	0.0040	+/-0.50	
GW8002-AB (1102141-03)			Lab File ID: 0214103.D			Analyzed: 02/18/11 12:54			
Fluorobenzene	930936	13.193	1081821	13.198	86	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	492662	16.672	648640	16.667	76	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	429166	18.701	551825	18.696	78	50 - 200	0.0050	+/-0.50	
GW0022 (1102141-01)			Lab File ID: 0214101.D			Analyzed: 02/18/11 15:56			
Fluorobenzene	954397	13.186	1081821	13.198	88	50 - 200	-0.0120	+/-0.50	
Chlorobenzene-d5	491622	16.664	648640	16.667	76	50 - 200	-0.0030	+/-0.50	
1,4-Dichlorobenzene-d4	438704	18.694	551825	18.696	80	50 - 200	-0.0020	+/-0.50	
LCS Dup (1B18011-BSD1)			Lab File ID: 0218LD1.D			Analyzed: 02/18/11 20:27			
Fluorobenzene	1080008	13.183	1081821	13.198	100	50 - 200	-0.0150	+/-0.50	
Chlorobenzene-d5	613521	16.661	648640	16.667	95	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	554464	18.691	551825	18.696	100	50 - 200	-0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05312
Instrument: MS-VOA5
Calibration: 0349002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05312-CCV1)			Lab File ID: 0221CC1.D			Analyzed: 02/21/11 08:35			
Fluorobenzene	1191778	13.223	1337630	13.37	89	50 - 200	-0.1470	+/-0.50	
Chlorobenzene-d5	703247	16.682	758667	16.829	93	50 - 200	-0.1470	+/-0.50	
1,4-Dichlorobenzene-d4	585948	18.722	549803	18.878	107	50 - 200	-0.1560	+/-0.50	
LCS (1B21012-BS1)			Lab File ID: 0221LS1.D			Analyzed: 02/21/11 09:05			
Fluorobenzene	1308495	13.212	1191778	13.223	110	50 - 200	-0.0110	+/-0.50	
Chlorobenzene-d5	684492	16.681	703247	16.682	97	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	589016	18.711	585948	18.722	101	50 - 200	-0.0110	+/-0.50	
Blank (1B21012-BLK1)			Lab File ID: 0221BL1.D			Analyzed: 02/21/11 10:33			
Fluorobenzene	1104187	13.218	1191778	13.223	93	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	560075	16.687	703247	16.682	80	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	475603	18.717	585948	18.722	81	50 - 200	-0.0050	+/-0.50	
GW8015-TB (1102166-05)			Lab File ID: 0216605.D			Analyzed: 02/21/11 11:07			
Fluorobenzene	1021519	13.218	1191778	13.223	86	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	518876	16.687	703247	16.682	74	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	462258	18.717	585948	18.722	79	50 - 200	-0.0050	+/-0.50	
LCS Dup (1B21012-BSD1)			Lab File ID: 0221LD1.D			Analyzed: 02/21/11 20:12			
Fluorobenzene	1085164	13.212	1191778	13.223	91	50 - 200	-0.0110	+/-0.50	
Chlorobenzene-d5	594628	16.681	703247	16.682	85	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	555880	18.711	585948	18.722	95	50 - 200	-0.0110	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05401
Instrument: MS-VOA3
Calibration: 1042001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05401-CCV1)			Lab File ID: 0222CCV1.D			Analyzed: 02/22/11 07:49			
Fluorobenzene	1100668	12.372	1314641	12.359	84	50 - 200	0.0130	+/-0.50	
Chlorobenzene-d5	617823	16.003	660505	15.997	94	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	697505	17.981	723449	17.974	96	50 - 200	0.0070	+/-0.50	
LCS (1B22009-BS1)			Lab File ID: 0222LS1.D			Analyzed: 02/22/11 08:19			
Fluorobenzene	1150627	12.372	1100668	12.372	105	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	612535	16.004	617823	16.003	99	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	692411	17.981	697505	17.981	99	50 - 200	0.0000	+/-0.50	
Blank (1B22009-BLK1)			Lab File ID: 0222BL1.D			Analyzed: 02/22/11 09:45			
Fluorobenzene	1094219	12.366	1100668	12.372	99	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	565354	16.004	617823	16.003	92	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	656050	17.981	697505	17.981	94	50 - 200	0.0000	+/-0.50	
GW0011 (1102166-01)			Lab File ID: 0216601D.D			Analyzed: 02/22/11 16:43			
Fluorobenzene	1001711	12.366	1100668	12.372	91	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	545611	15.997	617823	16.003	88	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	635586	17.981	697505	17.981	91	50 - 200	0.0000	+/-0.50	
GW0031 (1102166-03)			Lab File ID: 0216603D.D			Analyzed: 02/22/11 17:12			
Fluorobenzene	1031408	12.365	1100668	12.372	94	50 - 200	-0.0070	+/-0.50	
Chlorobenzene-d5	541908	15.997	617823	16.003	88	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	634400	17.974	697505	17.981	91	50 - 200	-0.0070	+/-0.50	
Matrix Spike (1B22009-MS1)			Lab File ID: 0216601M.D			Analyzed: 02/22/11 18:12			
Fluorobenzene	1013320	12.365	1100668	12.372	92	50 - 200	-0.0070	+/-0.50	
Chlorobenzene-d5	558501	15.997	617823	16.003	90	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	649569	17.974	697505	17.981	93	50 - 200	-0.0070	+/-0.50	
Matrix Spike Dup (1B22009-MSD1)			Lab File ID: 0216601S.D			Analyzed: 02/22/11 18:42			
Fluorobenzene	1054750	12.366	1100668	12.372	96	50 - 200	-0.0060	+/-0.50	
Chlorobenzene-d5	567055	15.997	617823	16.003	92	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	665868	17.975	697505	17.981	95	50 - 200	-0.0060	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05514
Instrument: MS-VOA5
Calibration: 0349002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05514-CCV1)			Lab File ID: 0223CC1.D			Analyzed: 02/23/11 10:28			
Fluorobenzene	1182424	13.185	1337630	13.37	88	50 - 200	-0.1850	+/-0.50	
Chlorobenzene-d5	749163	16.663	758667	16.829	99	50 - 200	-0.1660	+/-0.50	
1,4-Dichlorobenzene-d4	617620	18.693	549803	18.878	112	50 - 200	-0.1850	+/-0.50	
LCS (1B23016-BS1)			Lab File ID: 0223LS1.D			Analyzed: 02/23/11 10:59			
Fluorobenzene	1365326	13.192	1182424	13.185	115	50 - 200	0.0070	+/-0.50	
Chlorobenzene-d5	735817	16.661	749163	16.663	98	50 - 200	-0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	649960	18.69	617620	18.693	105	50 - 200	-0.0030	+/-0.50	
Blank (1B23016-BLK1)			Lab File ID: 0223BL1.D			Analyzed: 02/23/11 12:57			
Fluorobenzene	1156976	13.199	1182424	13.185	98	50 - 200	0.0140	+/-0.50	
Chlorobenzene-d5	586643	16.678	749163	16.663	78	50 - 200	0.0150	+/-0.50	
1,4-Dichlorobenzene-d4	523161	18.707	617620	18.693	85	50 - 200	0.0140	+/-0.50	
GW8016-TB (1102174-11)			Lab File ID: 0217411.D			Analyzed: 02/23/11 13:27			
Fluorobenzene	1099668	13.189	1182424	13.185	93	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	550348	16.667	749163	16.663	73	50 - 200	0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	495040	18.697	617620	18.693	80	50 - 200	0.0040	+/-0.50	
LCS Dup (1B23016-BSD1)			Lab File ID: 0223LD1.D			Analyzed: 02/23/11 22:01			
Fluorobenzene	1165838	13.199	1182424	13.185	99	50 - 200	0.0140	+/-0.50	
Chlorobenzene-d5	649370	16.668	749163	16.663	87	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	591208	18.698	617620	18.693	96	50 - 200	0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05611
Instrument: MS-VOA5
Calibration: 0349002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05611-CCV1)			Lab File ID: 0224CC1.D			Analyzed: 02/24/11 06:55			
Fluorobenzene	1299664	13.203	1337630	13.37	97	50 - 200	-0.1670	+/-0.50	
Chlorobenzene-d5	770144	16.671	758667	16.829	102	50 - 200	-0.1580	+/-0.50	
1,4-Dichlorobenzene-d4	658263	18.701	549803	18.878	120	50 - 200	-0.1770	+/-0.50	
LCS (1B24002-BS1)			Lab File ID: 0224LS1.D			Analyzed: 02/24/11 07:25			
Fluorobenzene	1467528	13.203	1299664	13.203	113	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	765567	16.671	770144	16.671	99	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	666775	18.701	658263	18.701	101	50 - 200	0.0000	+/-0.50	
Blank (1B24002-BLK1)			Lab File ID: 0224BL1.D			Analyzed: 02/24/11 08:54			
Fluorobenzene	1216961	13.199	1299664	13.203	94	50 - 200	-0.0040	+/-0.50	
Chlorobenzene-d5	622324	16.677	770144	16.671	81	50 - 200	0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	564265	18.707	658263	18.701	86	50 - 200	0.0060	+/-0.50	
GW8017-TB (1102179-03)			Lab File ID: 0217903.D			Analyzed: 02/24/11 09:24			
Fluorobenzene	1144092	13.203	1299664	13.203	88	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	581756	16.671	770144	16.671	76	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	510706	18.701	658263	18.701	78	50 - 200	0.0000	+/-0.50	
GW0009 (1102179-01)			Lab File ID: 0217901D.D			Analyzed: 02/24/11 16:28			
Fluorobenzene	1192236	13.222	1299664	13.203	92	50 - 200	0.0190	+/-0.50	
Chlorobenzene-d5	634246	16.691	770144	16.671	82	50 - 200	0.0200	+/-0.50	
1,4-Dichlorobenzene-d4	597451	18.721	658263	18.701	91	50 - 200	0.0200	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05612
Instrument: MS-VOA5
Calibration: 0349002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05612-CCV1)			Lab File ID: 0224CC1E.D			Analyzed: 02/24/11 19:30			
Fluorobenzene	1358181	13.223	1337630	13.37	102	50 - 200	-0.1470	+/-0.50	
Chlorobenzene-d5	804871	16.701	758667	16.829	106	50 - 200	-0.1280	+/-0.50	
1,4-Dichlorobenzene-d4	670128	18.731	549803	18.878	122	50 - 200	-0.1470	+/-0.50	
LCS (1B24021-BS1)			Lab File ID: 0224LS1E.D			Analyzed: 02/24/11 20:00			
Fluorobenzene	1468260	13.218	1358181	13.223	108	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	764852	16.687	804871	16.701	95	50 - 200	-0.0140	+/-0.50	
1,4-Dichlorobenzene-d4	699830	18.727	670128	18.731	104	50 - 200	-0.0040	+/-0.50	
Blank (1B24021-BLK1)			Lab File ID: 0224BL1E.D			Analyzed: 02/24/11 21:28			
Fluorobenzene	1250145	13.233	1358181	13.223	92	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	628196	16.691	804871	16.701	78	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	556307	18.731	670128	18.731	83	50 - 200	0.0000	+/-0.50	
GW0036 (1102174-05)			Lab File ID: 0217405.D			Analyzed: 02/24/11 22:28			
Fluorobenzene	1144815	13.224	1358181	13.223	84	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	603101	16.693	804871	16.701	75	50 - 200	-0.0080	+/-0.50	
1,4-Dichlorobenzene-d4	518085	18.723	670128	18.731	77	50 - 200	-0.0080	+/-0.50	
GW0037 (1102174-07)			Lab File ID: 0217407.D			Analyzed: 02/24/11 22:59			
Fluorobenzene	1139994	13.225	1358181	13.223	84	50 - 200	0.0020	+/-0.50	
Chlorobenzene-d5	587234	16.694	804871	16.701	73	50 - 200	-0.0070	+/-0.50	
1,4-Dichlorobenzene-d4	520706	18.723	670128	18.731	78	50 - 200	-0.0080	+/-0.50	
GW0038 (1102174-09)			Lab File ID: 0217409.D			Analyzed: 02/24/11 23:29			
Fluorobenzene	1116126	13.224	1358181	13.223	82	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	571239	16.693	804871	16.701	71	50 - 200	-0.0080	+/-0.50	
1,4-Dichlorobenzene-d4	503542	18.723	670128	18.731	75	50 - 200	-0.0080	+/-0.50	
GW0010 (1102174-01)			Lab File ID: 0217401D.D			Analyzed: 02/24/11 23:59			
Fluorobenzene	1112436	13.228	1358181	13.223	82	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	570499	16.696	804871	16.701	71	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	537868	18.726	670128	18.731	80	50 - 200	-0.0050	+/-0.50	
GW0015 (1102174-03)			Lab File ID: 0217403D.D			Analyzed: 02/25/11 00:29			
Fluorobenzene	1162663	13.227	1358181	13.223	86	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	582552	16.696	804871	16.701	72	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	548583	18.725	670128	18.731	82	50 - 200	-0.0060	+/-0.50	
LCS Dup (1B24021-BSD1)			Lab File ID: 0224LD1E.D			Analyzed: 02/25/11 02:30			
Fluorobenzene	1455719	13.223	1358181	13.223	107	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	754662	16.691	804871	16.701	94	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	670920	18.721	670128	18.731	100	50 - 200	-0.0100	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein	2.501	0.0300469	5.002	3.765359E-02	10	4.305044E-02	25.01	3.944713E-02	50.02	4.232565E-02	250.1	3.994906E-02
Acrylonitrile	2.499	6.678352E-02	4.998	7.141979E-02	9.996	8.049185E-02	24.99	7.946148E-02	49.98	8.543478E-02	249.9	7.901282E-02
Benzene	0.5	0.7926387	1	0.8802071	2	0.8431238	5	0.831329	10	0.8954439	50	0.8545027
Bromobenzene	0.5	0.5439878	1	0.5886871	2	0.5864637	5	0.6086893	10	0.6266041	50	0.6321922
Bromochloromethane	0.5	9.355392E-02	1	0.1069342	2	0.1296395	5	0.1204606	10	0.1308553	50	0.1247183
Tert-Amyl Methyl Ether	0.5	~~1.523293~~	1	1.054276	2	0.8820578	5	0.7728646	10	0.7570595	50	0.7142613
Bromodichloromethane	0.5	0.3105529	1	0.3604047	2	0.4022681	5	0.3676804	10	0.3943633	50	0.3747865
Bromoform	0.5	0.2866459	1	0.325656	2	0.3308852	5	0.3663993	10	0.3875103	50	0.3876854
Bromomethane	0.5	7.771688E-02	1	0.1318092	2	0.1572429	5	0.1512574	10	0.1728129	50	0.193832
Bromofluorobenzene	30	0.914355	30	0.9144387	30	0.910796	30	0.9359689	30	0.9009915	30	0.9087363
n-Butylbenzene	0.5	1.745146	1	1.488207	2	1.52998	5	1.599226	10	1.569947	50	1.645848
2-Butanone												
sec-Butylbenzene	0.5	2.094667	1	2.018177	2	1.940458	5	1.992429	10	2.103899	50	2.132415
tert-Butylbenzene	0.5	1.815715	1	1.611961	2	1.607396	5	1.640706	10	1.602946	50	1.626832
Carbon disulfide	0.5	0.7858215	1	0.6896591	2	0.6913353	5	0.7232067	10	0.7509502	50	0.711988
Carbon tetrachloride	0.5	0.2858534	1	0.3054818	2	0.322592	5	0.3254197	10	0.3393713	50	0.3309307
Chlorobenzene	0.5	1.316312	1	1.293493	2	1.292706	5	1.314865	10	1.272897	50	1.198697
Chloroethane	0.5	0.1807101	1	0.1441053	2	0.1621247	5	0.1321144	10	0.1789308	50	0.1562047
Chloroform	0.5	0.4728563	1	0.4937685	2	0.497313	5	0.4692742	10	0.4999221	50	0.4626872
2-Chloroethyl vinyl ether	0.9975	0.1117943	1.995	0.1231848	3.99	0.1390803	9.975	0.1456076	19.95	0.1581281	99.75	0.159035
Chloromethane	0.5	0.3697058	1	0.3754145	2	0.3223509	5	0.3165557	10	0.3258491	50	0.3161815
1-Chlorohexane	0.501	1.36827	1.002	1.272921	2.004	1.198794	5.01	1.243808	10.02	1.243289	50.1	1.209049
2-Chlorotoluene	0.5	1.680488	1	1.731239	2	1.697187	5	1.749113	10	1.734021	50	1.718067
4-Chlorotoluene	0.5	1.829262	1	1.779358	2	1.738436	5	1.80556	10	1.839201	50	1.805999
Cyclohexane	0.5	0.3193105	1	0.2730313	2	0.3226221	5	0.3180858	10	0.3471704	50	0.3488248
Dibromochloromethane	0.5	0.4577034	1	0.5091026	2	0.5393013	5	0.5507077	10	0.5613674	50	0.5478178
1,2-Dibromo-3-chloropropane	0.5	~~0.1001273~~	1	0.1013071	2	0.1052348	5	0.1181647	10	0.1181369	50	0.1285002
1,2-Dibromoethane (EDB)	0.5	0.4444174	1	0.4716357	2	0.4823925	5	0.5067844	10	0.5483033	50	0.5105323
Dibromomethane	0.5	0.1590521	1	0.1884563	2	0.1996273	5	0.1920859	10	0.2007604	50	0.1876595
1,2-Dichlorobenzene	0.5	1.105464	1	1.063757	2	1.016577	5	1.009202	10	1.073579	50	1.055019

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	0.5	1.170368	1	1.189025	2	1.090462	5	1.098028	10	1.151092	50	1.159644
1,4-Dichlorobenzene	0.5	1.233548	1	1.288687	2	1.273443	5	1.192281	10	1.171047	50	1.131966
Dichlorodifluoromethane	0.5	0.3152725	1	0.2994044	2	0.2942955	5	0.3325466	10	0.3591799	50	0.3462217
1,1-Dichloroethane	0.5	0.4112387	1	0.4381107	2	0.4459484	5	0.4257077	10	0.4748405	50	0.4378766
1,2-Dichloroethane	0.5	0.4011177	1	0.3935054	2	0.453678	5	0.4261104	10	0.4378104	50	0.4159968
1,1-Dichloroethene	0.5	0.1698549	1	0.1806263	2	0.1832642	5	0.1759282	10	0.1837654	50	0.1834043
cis-1,2-Dichloroethene	0.5	0.185692	1	0.2178258	2	0.2298976	5	0.2271104	10	0.2411122	50	0.2333006
trans-1,2-Dichloroethene	0.5	0.2231869	1	0.2103633	2	0.2177534	5	0.2057644	10	0.2126566	50	0.2156499
1,2-Dichloroethene (total)	1	0.2044394	2	0.2140945	4	0.2238255	10	0.2164374	20	0.2268844	100	0.2244752
1,2-Dichloropropane	0.5	0.2104439	1	0.2509547	2	0.2513987	5	0.2434349	10	0.2526338	50	0.2528071
1,3-Dichloropropane	0.5	0.7800001	1	0.8724612	2	0.8214503	5	0.8665316	10	0.8543169	50	0.7943883
2,2-Dichloropropane	0.5	0.3578542	1	0.3851383	2	0.3862967	5	0.3716666	10	0.3849003	50	0.3635153
1,1-Dichloropropene	0.5	0.3042076	1	0.2818789	2	0.307163	5	0.3164522	10	0.3320715	50	0.3342827
cis-1,3-Dichloropropene	0.5	0.333784	1	0.387117	2	0.389265	5	0.4110801	10	0.4413035	50	0.4390858
trans-1,3-Dichloropropene	0.5	0.608389	1	0.6874829	2	0.7221219	5	0.7386875	10	0.7753981	50	0.7601071
Diisopropyl Ether	0.5	0.7336956	1	0.7546167	2	0.815219	5	0.8052087	10	0.8808212	50	0.861655
Ethylbenzene	0.5	1.991796	1	2.108929	2	2.112211	5	2.13505	10	2.174285	50	2.095329
Ethyl tert-Butyl Ether	0.5	0.5951477	1	0.6578304	2	0.7283105	5	0.7102012	10	0.7680875	50	0.7676508
Ethyl Methacrylate	0.5	0.4756395	1	0.4813559	2	0.516909	5	0.5932861	10	0.5950089	50	0.6240057
Hexachlorobutadiene	0.5	~~0.4537132~~	1	0.3307785	2	0.2340311	5	0.2478404	10	0.2518845	50	0.2557088
2-Hexanone												
Iodomethane	0.5	~~0.120351~~	1	0.1376039	2	0.1672024	5	0.1893651	10	0.2375727	50	0.2771395
Isopropylbenzene	0.5	1.674592	1	1.464627	2	1.547165	5	1.677859	10	1.717279	50	1.685008
p-Isopropyltoluene	0.5	1.330473	1	1.220622	2	1.190483	5	1.256797	10	1.322767	50	1.366144
Methylene chloride	0.5	0.2457888	1	0.3057927	2	0.278746	5	0.243015	10	0.2468585	50	0.2484226
Methyl Acetate	0.5	0.1755709	1	0.2026181	2	0.2008629	5	0.1984707	10	0.2015995	50	0.1804311
Methylcyclohexane	0.5	0.3356194	1	0.2547142	2	0.2827238	5	0.2703605	10	0.2966588	50	0.2906143
Naphthalene	0.5	1.613613	1	1.189815	2	1.195598	5	1.287733	10	1.344505	50	1.449509
Methyl Methacrylate	0.5	~~0.1355063~~	1	0.1717222	2	0.1905869	5	0.206006	10	0.2258913	50	0.2343712
4-Methyl-2-pentanone												
Methyl t-Butyl Ether	0.5	0.4955631	1	0.5290458	2	0.5893444	5	0.5907874	10	0.6112708	50	0.6046649

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	2.607743	1	2.521289	2	2.468876	5	2.592185	10	2.634534	50	2.71723
Styrene	0.5	0.9955658	1	1.114936	2	1.170507	5	1.297429	10	1.311166	50	1.353042
1,1,2,2-Tetrachloroethane	0.5	0.7076645	1	0.7026986	2	0.7371055	5	0.755625	10	0.7520057	50	0.700547
1,1,1,2-Tetrachloroethane	0.5	0.444196	1	0.4815915	2	0.4593416	5	0.4749294	10	0.480759	50	0.458459
tert-Butyl alcohol	2.5	1.954983E-02	5	0.0199226	10	2.397818E-02	25	2.389425E-02	50	0.0241751	250	2.271466E-02
Tetrachloroethene	0.5	0.4804004	1	0.4846548	2	0.468562	5	0.4952371	10	0.4745579	50	0.4764023
Toluene	0.5	1.111486	1	1.081357	2	1.097642	5	1.103754	10	1.099934	50	1.028931
1,2,3-Trichlorobenzene	0.5	~~0.8452317~~	1	0.5976395	2	0.5379217	5	0.5191667	10	0.5629618	50	0.5762858
1,2,4-Trichlorobenzene	0.5	0.7800813	1	0.6155443	2	0.6007854	5	0.5734345	10	0.6116645	50	0.6449718
1,1,2-Trichloroethane	0.5	0.3858482	1	0.4262159	2	0.3804596	5	0.4230089	10	0.4002435	50	0.3847709
1,1,1-Trichloroethane	0.5	0.3064625	1	0.3405895	2	0.3687734	5	0.3816696	10	0.38283	50	0.379027
Tetrahydrofuran	0.5		1	5.017398E-02	2	5.181662E-02	5	5.648569E-02	10	5.892641E-02	50	5.891316E-02
Trichloroethene	0.5	0.2505085	1	0.2268147	2	0.2566874	5	0.2478813	10	0.243952	50	0.2455939
Trichlorofluoromethane	0.5	0.3902625	1	0.3936467	2	0.4309865	5	0.4300621	10	0.4457228	50	0.4115715
1,2,3-Trichloropropane	0.5	0.1825721	1	0.1534024	2	0.1818626	5	0.165806	10	0.1783511	50	0.1695884
1,3,5-Trimethylbenzene	0.5	1.727534	1	1.577007	2	1.613204	5	1.666487	10	1.713513	50	1.744944
1,2,4-Trimethylbenzene	0.5	1.611766	1	1.602021	2	1.628285	5	1.729907	10	1.800708	50	1.79169
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.2263858	1	0.2238466	2	0.2395257	5	0.2207831	10	0.2260568	50	0.2116512
Vinyl chloride	0.5	0.3243972	1	0.3048317	2	0.3006238	5	0.2961817	10	0.3094522	50	0.3067178
m,p-Xylene	1	1.625157	2	1.572286	4	1.658916	10	1.721801	20	1.742873	100	1.627808
o-Xylene	0.5	1.633295	1	1.690254	2	1.732051	5	1.871485	10	1.835309	50	1.722921
Vinyl acetate	0.9995	~~0.1171058~~	1.999	0.2335318	3.998	0.2451705	9.995	0.2581024	19.99	0.293799	99.95	0.2928919
Xylenes (total)	1.5	1.62787	3	1.611609	6	1.683295	15	1.771696	30	1.773685	150	1.659512
Dibromofluoromethane	30	0.3175126	30	0.3242427	30	0.3448656	30	0.3211449	30	0.3317715	30	0.3254056
1,2-Dichloroethane-d4	30	6.279143E-02	30	6.868324E-02	30	6.651231E-02	30	6.465656E-02	30	6.364869E-02	30	0.0620139
Toluene-d8	30	1.966508	30	1.925585	30	1.906439	30	1.888822	30	1.880824	30	1.887721
tert-Amyl alcohol	2.5		5	1.309329E-02	10	1.154159E-02	25	1.166412E-02	50	1.275219E-02	250	1.361775E-02
tert-Amyl ethyl ether	0.5	0.502695	1	0.5203678	2	0.625491	5	0.6139914	10	0.6545988	50	0.6573529

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone							1	0.105847	2	0.1742808	4	5.096748E-02
Acrolein	500.2	4.414182E-02	750.3	4.649791E-02	1000	4.140661E-02						
Acrylonitrile	499.8	0.0848897	749.7	8.793166E-02	999.6	8.415217E-02						
Benzene	100	0.8497778	150	0.8373855	200	0.8171406						
Bromobenzene	100	0.6675187	150	0.6743485	200	0.6552954						
Bromochloromethane	100	0.1321641	150	0.132715	200	0.1308496						
Tert-Amyl Methyl Ether	100	0.7368235	150	0.7101052	200	0.6873043						
Bromodichloromethane	100	0.3897356	150	0.3752912	200	0.3550348						
Bromoform	100	0.3959007	150	0.3863964	200	0.3550904						
Bromomethane	100	0.2204624	150	0.2246404	200	0.2188912						
Bromofluorobenzene	30	0.8602053	30	0.803208	30	0.761367						
n-Butylbenzene	100	1.675501	150	1.652966	200	1.483944						
2-Butanone							1	8.448716E-02	2	0.1945445	4	0.0505204
sec-Butylbenzene	100	2.152351	150	2.119305	200	1.926077						
tert-Butylbenzene	100	1.665171	150	1.632057	200	1.529674						
Carbon disulfide	100	0.769641	150	0.7796425	200	0.7665669						
Carbon tetrachloride	100	0.3340849	150	0.3229519	200	0.3154304						
Chlorobenzene	100	1.192884	150	1.0945	200	1.012137						
Chloroethane	100	0.1742306	150	0.1677839	200	0.166191						
Chloroform	100	0.4722785	150	0.4691578	200	0.4523661						
2-Chloroethyl vinyl ether	199.5	0.170606	299.2	0.171585	399	0.1576298						
Chloromethane	100	0.3418796	150	0.3266539	200	0.31687						
1-Chlorohexane	100.2	1.160509	150.3	1.063714	200.4	0.9361916						
2-Chlorotoluene	100	1.720806	150	1.776758	200	1.622321						
4-Chlorotoluene	100	1.867514	150	1.834729	200	1.777154						
Cyclohexane	100	0.3614865	150	0.3662319	200	0.3574002						
Dibromochloromethane	100	0.5553437	150	0.5412887	200	0.4942215						
1,2-Dibromo-3-chloropropane	100	0.1387537	150	0.1522199	200	0.1436069						
1,2-Dibromoethane (EDB)	100	0.5016208	150	0.4924687	200	0.4418377						
Dibromomethane	100	0.1948212	150	0.1987863	200	0.1878698						
1,2-Dichlorobenzene	100	1.0953	150	1.100618	200	1.000342						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	100	1.154111	150	1.120568	200	1.077326						
1,4-Dichlorobenzene	100	1.171062	150	1.234115	200	1.129007						
Dichlorodifluoromethane	100	0.3430888	150	0.3053006	200	0.2847898						
1,1-Dichloroethane	100	0.4684626	150	0.4688447	200	0.4526461						
1,2-Dichloroethane	100	0.4265484	150	0.4066324	200	0.3908247						
1,1-Dichloroethene	100	0.193883	150	0.2024271	200	0.1955889						
cis-1,2-Dichloroethene	100	0.2494575	150	0.2547382	200	0.2485001						
trans-1,2-Dichloroethene	100	0.2290056	150	0.2378002	200	0.234169						
1,2-Dichloroethene (total)	200	0.2392315	300	0.2462692	400	0.2413346						
1,2-Dichloropropane	100	0.266367	150	0.2616448	200	0.250989						
1,3-Dichloropropane	100	0.7936719	150	0.7462668	200	0.6950249						
2,2-Dichloropropane	100	0.3745395	150	0.3646956	200	0.3483139						
1,1-Dichloropropene	100	0.3509803	150	0.3487481	200	0.3381829						
cis-1,3-Dichloropropene	100	0.4557198	150	0.4397147	200	0.414939						
trans-1,3-Dichloropropene	100	0.758504	150	0.7321761	200	0.6599538						
Diisopropyl Ether	100	0.9182946	150	0.9444458	200	0.8814371						
Ethylbenzene	100	2.010517	150	1.820262	200	1.621899						
Ethyl tert-Butyl Ether	100	0.79601	150	0.7935578	200	0.7581296						
Ethyl Methacrylate	100	0.6439251	150	0.6213608	200	0.5654902						
Hexachlorobutadiene	100	0.2758719	150	0.2758562	200	0.2781694						
2-Hexanone							1	0.2881206	2	0.6327276	4	0.1488338
Iodomethane	100	0.3136583	150	0.3180348	200	0.3173131						
Isopropylbenzene	100	1.592887	150	1.447012	200	1.291285						
p-Isopropyltoluene	100	1.425295	150	1.451147	200	1.358829						
Methylene chloride	100	0.2585236	150	0.2661379	200	0.262521						
Methyl Acetate	100	0.1973059	150	0.2080119	200	0.2045133						
Methylcyclohexane	100	0.3139667	150	0.3118703	200	0.3052622						
Naphthalene	100	1.545868	150	1.604097	200	1.50932						
Methyl Methacrylate	100	0.254473	150	0.2631975	200	0.2443141						
4-Methyl-2-pentanone							1	0.1770877	2	0.4261594	4	0.1075554
Methyl t-Butyl Ether	100	0.6494634	150	0.6675051	200	0.6440991						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	100	2.710927	150	2.650345	200	2.443556						
Styrene	100	1.295377	150	1.21807	200	1.0837						
1,1,2,2-Tetrachloroethane	100	0.7307782	150	0.7599908	200	0.7034689						
1,1,1,2-Tetrachloroethane	100	0.4495324	150	0.4265499	200	0.3843807						
tert-Butyl alcohol	500	2.436558E-02	750	2.635542E-02	1000	2.453721E-02						
Tetrachloroethene	100	0.4796581	150	0.4569133	200	0.4309663						
Toluene	100	1.04685	150	0.9904622	200	0.888493						
1,2,3-Trichlorobenzene	100	0.6212322	150	0.6472567	200	0.6109577						
1,2,4-Trichlorobenzene	100	0.6909017	150	0.7117211	200	0.6767836						
1,1,2-Trichloroethane	100	0.3894174	150	0.3752957	200	0.3479556						
1,1,1-Trichloroethane	100	0.3884127	150	0.3801613	200	0.3690138						
Tetrahydrofuran	100	6.551079E-02	150	0.0698601	200	6.609126E-02						
Trichloroethene	100	0.2589972	150	0.2466661	200	0.2405622						
Trichlorofluoromethane	100	0.4284283	150	0.4142885	200	0.3650779						
1,2,3-Trichloropropane	100	0.1629579	150	0.1604694	200	0.1399491						
1,3,5-Trimethylbenzene	100	1.77897	150	1.775879	200	1.673602						
1,2,4-Trimethylbenzene	100	1.82765	150	1.86087	200	1.689912						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2352064	150	0.2300822	200	0.2276429						
Vinyl chloride	100	0.3212605	150	0.3005812	200	0.288568						
m,p-Xylene	200	1.472616	300	1.311316	400	1.146934						
o-Xylene	100	1.624356	150	1.470446	200	1.324388						
Vinyl acetate	199.9	0.3148223	299.8	0.3256627	399.8	0.3152118						
Xylenes (total)	300	1.523196	450	1.364359	600	1.206085						
Dibromofluoromethane	30	0.3232992	30	0.3192217	30	0.3271106						
1,2-Dichloroethane-d4	30	6.343065E-02	30	6.501569E-02	30	6.786331E-02						
Toluene-d8	30	1.808983	30	1.800037	30	1.766911						
tert-Amyl alcohol	500	0.0154791	750	1.707898E-02	1000	1.630251E-02						
tert-Amyl ethyl ether	100	0.6973876	150	0.668609	200	0.6285211						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	10	8.091137E-02	20	8.472778E-02	100	8.207723E-02	200	9.158643E-02	300	9.643365E-02	400	8.728197E-02
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone	10	9.396012E-02	20	0.1066098	100	0.1090494	200	0.1243273	300	0.127583	400	0.11917
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone	10	0.3266243	20	0.3671838	100	0.3605019	200	0.4009384	300	0.3907102	400	0.3620698
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone	10	0.2178156	20	0.25652	100	0.2530097	200	0.2767463	300	0.2728866	400	0.2531124
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	9.490153E-02	35.11874	6.444778	7.760536E-02	0.9962118		0.995	
Acrolein	4.050212E-02	11.66847	6.258667	9.437477E-02			15	
Acrylonitrile	7.995309E-02	8.658338	7.252778	9.125197E-02			15	
Benzene	0.8446166	3.664116	13.05667	1.589406E-02			15	
Bromobenzene	0.6204208	6.899589	18.00311	1.924119E-02			15	
Bromochloromethane	0.1224323	11.09981	11.11556	1.970505E-02			15	
Tert-Amyl Methyl Ether	0.789344	15.52968	13.34812	5.009477E-02	0.9990325		0.995	
Bromodichloromethane	0.3700131	7.358442	13.972	1.995359E-02			15	
Bromoform	0.3580188	10.33213	17.27078	2.718296E-02			SPCC (0.1)	
Bromomethane	0.1720739	28.28296	5.274333	0.1246216	0.9991085		0.995	
Bromofluorobenzene	0.8788963	6.739097	17.81833	1.483661E-02			15	
n-Butylbenzene	1.598974	5.569195	19.22844	2.286585E-02			15	
2-Butanone	0.1122502	34.73114	10.50111	0.1547187	0.9977852		0.995	
sec-Butylbenzene	2.053309	4.166657	18.75544	1.897686E-02			15	
tert-Butylbenzene	1.63694	4.685218	18.88344	2.463795E-02			15	
Carbon disulfide	0.740979	5.080183	7.879111	5.470964E-02			15	
Carbon tetrachloride	0.3202351	5.101441	13.02378	3.460528E-02			15	
Chlorobenzene	1.220943	8.778402	16.85467	0.0230222			SPCC (0.3)	
Chloroethane	0.1624884	9.928626	5.469222	0.1098749			15	
Chloroform	0.4766249	3.471597	11.21956	4.506429E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.1485168	13.86846	14.50733	1.998157E-02			15	
Chloromethane	0.3346068	6.864147	4.501333	9.992679E-02			SPCC (0.1)	
1-Chlorohexane	1.188505	10.56141	16.79667	2.801282E-02			15	
2-Chlorotoluene	1.714444	2.587337	18.22233	1.820615E-02			15	
4-Chlorotoluene	1.808579	2.168035	18.28244	2.250717E-02			15	
Cyclohexane	0.3349071	8.859817	12.92533	3.469135E-02			15	
Dibromochloromethane	0.5285393	6.523615	15.86844	1.945299E-02			15	
1,2-Dibromo-3-chloropropane	0.1257405	14.50957	19.63	1.043451E-02			15	
1,2-Dibromoethane (EDB)	0.4888881	6.870215	16.09711	2.927393E-02			15	
Dibromomethane	0.1899021	6.669569	13.811	3.487788E-02			15	
1,2-Dichlorobenzene	1.057762	3.835274	19.22289	2.075924E-02			15	
1,3-Dichlorobenzene	1.134514	3.453945	18.85289	1.935345E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.202795	4.819416	18.90456	2.053349E-02			15	
Dichlorodifluoromethane	0.3200111	8.175819	4.247333	8.114501E-02			15	
1,1-Dichloroethane	0.4470751	4.771398	9.410889	8.676498E-02			SPCC (0.1)	
1,2-Dichloroethane	0.4169138	5.052933	12.32422	0.0374402			15	
1,1-Dichloroethene	0.1854158	5.496992	7.196	0.1042799			CCC (20)	
cis-1,2-Dichloroethene	0.2319594	9.084585	10.82756	5.739556E-02			15	
trans-1,2-Dichloroethene	0.2207055	5.009181	8.807556	6.191007E-02			15	
1,2-Dichloroethene (total)	0.2263324	6.102083	0	0			15	
1,2-Dichloropropane	0.2489638	6.382973	13.86356	5.219406E-02			CCC (20)	
1,3-Dichloropropane	0.8026791	7.291224	15.623	2.647444E-02			15	
2,2-Dichloropropane	0.3707689	3.5969	11.38489	4.647936E-02			15	
1,1-Dichloropropene	0.3237741	7.092263	12.79167	2.414198E-02			15	
cis-1,3-Dichloropropene	0.4124454	9.205903	14.75367	0.0185918			15	
trans-1,3-Dichloropropene	0.7158689	7.591687	15.22011	3.309427E-02			15	
Diisopropyl Ether	0.8439326	8.500125	10.62278	4.151538E-02			15	
Ethylbenzene	2.007809	8.927793	17.00811	1.805769E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.7305473	9.162288	11.41556	5.227118E-02			15	
Ethyl Methacrylate	0.5685535	11.08372	15.66144	2.984729E-02			15	
Hexachlorobutadiene	0.2687676	11.01457	21.325	1.935315E-02			15	
2-Hexanone	0.36419	34.70086	15.77833	3.425747E-02	0.9969121		0.995	
Iodomethane	0.2447362	29.72528	7.25	5.559583E-02	0.9993686		0.995	
Isopropylbenzene	1.566413	9.09391	17.77767	1.866152E-02			15	
p-Isopropyltoluene	1.324729	6.671375	18.577	1.302539E-02			15	
Methylene chloride	0.2617562	7.716747	7.451111	6.731063E-02			15	
Methyl Acetate	0.1965983	5.62942	7.501333	6.414553E-02			15	
Methylcyclohexane	0.2957545	8.279769	14.56322	3.038008E-02			15	
Naphthalene	1.415562	11.77932	21.29878	2.340518E-02			15	
Methyl Methacrylate	0.2238203	14.29097	14.197	3.587692E-02			15	
4-Methyl-2-pentanone	0.2489881	34.48075	14.88256	3.876822E-02	0.9973122		0.995	
Methyl t-Butyl Ether	0.5979716	9.385891	9.119667	0.1432835			15	
n-Propylbenzene	2.594076	3.792861	18.12478	0.0225021			15	
Styrene	1.204421	10.08127	17.42844	2.425388E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.7277649	3.387486	17.50067	1.931054E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.4510822	6.834532	16.79667	2.801282E-02			15	
tert-Butyl alcohol	2.327698E-02	9.532707	7.205778	0.1024445			15	
Tetrachloroethene	0.471928	3.948895	16.27244	2.373135E-02			15	
Toluene	1.049879	6.942362	15.56067	1.745815E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.5841777	7.413424	21.56625	2.862758E-02			15	
1,2,4-Trichlorobenzene	0.6562098	9.896622	21.001	2.452696E-02			15	
1,1,2-Trichloroethane	0.3903573	6.159439	15.37567	2.739238E-02			15	
1,1,1-Trichloroethane	0.3663266	7.22728	12.49844	0.0358237			15	
Tetrahydrofuran	5.972225E-02	11.70861	11.82475	0.1139163			15	
Trichloroethene	0.246407	3.817773	13.93467	0.0212948			15	
Trichlorofluoromethane	0.4122274	6.130862	6.301444	9.080712E-02			15	
1,2,3-Trichloropropane	0.1661066	8.430506	17.61244	2.391162E-02			15	
1,3,5-Trimethylbenzene	1.696793	4.132945	18.33167	2.167581E-02			15	
1,2,4-Trimethylbenzene	1.726979	5.706479	18.65689	1.854308E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2267979	3.552182	7.568111	9.178277E-02			15	
Vinyl chloride	0.305846	3.734151	4.731333	0.1367484			CCC (20)	
m,p-Xylene	1.54219	12.88011	17.16233	2.624017E-02			15	
o-Xylene	1.656056	10.36993	17.491	1.445182E-02			15	
Vinyl acetate	0.284899	12.27004	9.73825	5.344834E-02			15	
Xylenes (total)	1.580145	11.92563	0	0			15	
Dibromofluoromethane	0.3260638	2.526002	11.42756	0.0353478			15	
1,2-Dichloroethane-d4	6.495731E-02	3.537328	12.20267	3.612929E-02			15	
Toluene-d8	1.870203	3.473583	15.48944	1.871955E-02			15	
tert-Amyl alcohol	1.394119E-02	15.08696	12.066	5.701451E-02	0.9971839		0.995	
tert-Amyl ethyl ether	0.6187794	10.65214	14.43178	3.505809E-02			15	

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein	2.501	4.174688E-02	5.002	3.856662E-02	10	3.437694E-02	25.01	0.0182728	50.02	2.123273E-02	250.1	2.231178E-02
Acrylonitrile	2.499	8.812904E-02	4.998	9.406873E-02	9.996	0.0929386	24.99	8.482993E-02	49.98	8.920213E-02	249.9	0.0947401
Benzene	0.5	0.9450861	1	0.9445345	2	0.9601675	5	0.7906232	10	0.8303345	50	0.9313922
Bromobenzene	0.5	0.6901022	1	0.7277522	2	0.7131113	5	0.6167644	10	0.6117274	50	0.6670966
Bromochloromethane	0.5	0.1127303	1	0.1182802	2	0.1343138	5	0.1049976	10	0.1151616	50	0.1285619
Tert-Amyl Methyl Ether	0.5	1.302566	1	0.9818719	2	0.8637552	5	0.6393085	10	0.6435684	50	0.6867683
Bromodichloromethane	0.5	0.2417891	1	0.263474	2	0.2505831	5	0.2107564	10	0.2319654	50	0.2775319
Bromoform	0.5	0.1289722	1	0.158804	2	0.168964	5	0.1489188	10	0.1619209	50	0.2570554
Bromomethane	0.5	0.1030408	1	0.1144611	2	0.1266765	5	0.1117067	10	0.1211445	50	0.1530205
Bromofluorobenzene	30	0.9654507	30	0.9976207	30	0.9729897	30	0.9746357	30	0.9380772	30	0.9440315
n-Butylbenzene	0.5	1.646562	1	1.487912	2	1.505232	5	1.25586	10	1.305682	50	1.410369
2-Butanone												
sec-Butylbenzene	0.5	1.995622	1	1.908844	2	1.974981	5	1.658612	10	1.753382	50	1.861187
tert-Butylbenzene	0.5	1.783234	1	1.683892	2	1.6604	5	1.393317	10	1.432726	50	1.554201
Carbon disulfide	0.5	0.6470439	1	0.6175059	2	0.6224395	5	0.5547088	10	0.6000347	50	0.6855299
Carbon tetrachloride	0.5	0.1950462	1	0.1928653	2	0.1925396	5	0.1680897	10	0.1865131	50	0.2307491
Chlorobenzene	0.5	1.572188	1	1.610476	2	1.613768	5	1.428043	10	1.392237	50	1.500533
Chloroethane	0.5	0.1176199	1	0.122616	2	0.1416319	5	0.1087992	10	0.1205354	50	0.1326353
Chloroform	0.5	0.4176807	1	0.4252921	2	0.4327724	5	0.363699	10	0.3708593	50	0.4130013
2-Chloroethyl vinyl ether	0.9975	0.1493271	1.995	0.1724823	3.99	0.1803491	9.975	0.1691201	19.95	0.1790793	99.75	0.1905536
Chloromethane	0.5	0.2682559	1	0.2554314	2	0.2448722	5	0.2256467	10	0.2384448	50	0.2548898
1-Chlorohexane	0.501	~~1.647162~~	1.002	1.445846	2.004	1.317613	5.01	1.115964	10.02	1.160985	50.1	1.236553
2-Chlorotoluene	0.5	1.686326	1	1.696742	2	1.73084	5	1.435526	10	1.515527	50	1.629684
4-Chlorotoluene	0.5	1.796726	1	1.764991	2	1.852982	5	1.526457	10	1.517603	50	1.651782
Cyclohexane	0.5	0.3487326	1	0.3500331	2	0.3624181	5	0.3024825	10	0.3323924	50	0.3642405
Dibromochloromethane	0.5	0.287537	1	0.3016567	2	0.2977243	5	0.2621412	10	0.2878156	50	0.3996691
1,2-Dibromo-3-chloropropane	0.5	6.563709E-02	1	8.732219E-02	2	9.957113E-02	5	7.942185E-02	10	0.0891781	50	0.116438
1,2-Dibromoethane (EDB)	0.5	0.4739428	1	0.4789681	2	0.5254348	5	0.4569947	10	0.4599806	50	0.5142327
Dibromomethane	0.5	0.1568265	1	0.156741	2	0.1561314	5	0.1410607	10	0.1496321	50	0.1626659
1,2-Dichlorobenzene	0.5	1.106465	1	1.190871	2	1.205924	5	1.018199	10	1.054561	50	1.112184

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	0.5	1.320917	1	1.283567	2	1.228413	5	1.058958	10	1.055012	50	1.114619
1,4-Dichlorobenzene	0.5	1.295837	1	1.28187	2	1.253957	5	1.11242	10	1.109189	50	1.182666
Dichlorodifluoromethane	0.5	0.1389278	1	0.1524051	2	0.1463283	5	0.1766836	10	0.1839105	50	0.1993881
1,1-Dichloroethane	0.5	0.4157966	1	0.4144189	2	0.4390419	5	0.3635615	10	0.3985996	50	0.4423158
1,2-Dichloroethane	0.5	0.3159408	1	0.3301288	2	0.3480555	5	0.3015883	10	0.3109418	50	0.353778
1,1-Dichloroethene	0.5	0.1789868	1	0.1828008	2	0.1900318	5	0.1562674	10	0.1692743	50	0.181869
cis-1,2-Dichloroethene	0.5	0.2312025	1	0.2491635	2	0.2613665	5	0.2114764	10	0.2262777	50	0.2437411
trans-1,2-Dichloroethene	0.5	0.2189111	1	0.2242045	2	0.2265313	5	0.1890057	10	0.2015217	50	0.2203565
1,2-Dichloroethene (total)	1	0.2250568	2	0.236684	4	0.2439489	10	0.2002411	20	0.2138997	100	0.2320488
1,2-Dichloropropane	0.5	0.2446153	1	0.2612948	2	0.2731986	5	0.2334747	10	0.2494524	50	0.2687378
1,3-Dichloropropane	0.5	0.7346529	1	0.8406911	2	0.7854829	5	0.7218122	10	0.7288621	50	0.793316
2,2-Dichloropropane	0.5	0.2742221	1	0.2996208	2	0.3337042	5	0.2680795	10	0.2913534	50	0.3242719
1,1-Dichloropropene	0.5	0.306027	1	0.3177728	2	0.3203218	5	0.2644934	10	0.2915432	50	0.3289568
cis-1,3-Dichloropropene	0.5	0.3790572	1	0.3451132	2	0.3648233	5	0.3270214	10	0.3452412	50	0.3960097
trans-1,3-Dichloropropene	0.5	0.5783928	1	0.6151467	2	0.631991	5	0.578027	10	0.5860145	50	0.7159333
Diisopropyl Ether	0.5	0.7792429	1	0.8091132	2	0.8432713	5	0.7376383	10	0.8046673	50	0.9065105
Ethylbenzene	0.5	2.732016	1	2.688971	2	2.678361	5	2.352547	10	2.351156	50	2.522577
Ethyl tert-Butyl Ether	0.5	0.6343489	1	0.6202018	2	0.7138933	5	0.6155446	10	0.6746352	50	0.7594678
Ethyl Methacrylate	0.5	0.4118997	1	0.4906122	2	0.5220805	5	0.5174347	10	0.549863	50	0.6524213
Hexachlorobutadiene	0.5	0.4299349	1	0.3394291	2	0.3167539	5	0.2557823	10	0.2622533	50	0.2950244
2-Hexanone												
Iodomethane	0.5	0.2030311	1	0.2374142	2	0.2544815	5	0.2271554	10	0.2691064	50	0.3379317
Isopropylbenzene	0.5	2.263236	1	2.256201	2	2.150328	5	1.859399	10	1.900794	50	2.037782
p-Isopropyltoluene	0.5	1.464414	1	1.464556	2	1.450106	5	1.218854	10	1.266581	50	1.392999
Methylene chloride	0.5	0.2711268	1	0.2560604	2	0.2608307	5	0.216929	10	0.2245747	50	0.2474163
Methyl Acetate	0.5	0.1554359	1	0.1554829	2	0.1804453	5	0.1730057	10	0.1657769	50	0.1786944
Methylcyclohexane	0.5	0.3002402	1	0.2875793	2	0.2932379	5	0.239262	10	0.2542406	50	0.2856919
Naphthalene	0.5	1.759582	1	1.656859	2	1.741664	5	1.546642	10	1.593499	50	1.691168
Methyl Methacrylate	0.5	~~0.1305392~~	1	0.1789817	2	0.2066857	5	0.1890241	10	0.2081253	50	0.2350489
4-Methyl-2-pentanone												
Methyl t-Butyl Ether	0.5	0.5773333	1	0.5521541	2	0.6045546	5	0.5151834	10	0.5567914	50	0.6095863

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	2.639294	1	2.498158	2	2.578066	5	2.140346	10	2.26532	50	2.368618
Styrene	0.5	1.646769	1	1.683039	2	1.689876	5	1.487873	10	1.533405	50	1.697697
1,1,2,2-Tetrachloroethane	0.5	0.5398591	1	0.5247009	2	0.5635804	5	0.51062	10	0.5171534	50	0.5283282
1,1,1,2-Tetrachloroethane	0.5	0.3488426	1	0.3412749	2	0.3801394	5	0.322724	10	0.3422563	50	0.4448147
tert-Butyl alcohol	2.5	1.327822E-02	5	1.674569E-02	10	1.886982E-02	25	1.588996E-02	50	1.784126E-02	250	1.967488E-02
Tetrachloroethene	0.5	0.6406202	1	0.6545282	2	0.6377782	5	0.5346161	10	0.5477381	50	0.6023662
Toluene	0.5	1.414269	1	1.377359	2	1.396002	5	1.181169	10	1.206687	50	1.344946
1,2,3-Trichlorobenzene	0.5	0.8203446	1	0.678333	2	0.7123323	5	0.6086772	10	0.6157404	50	0.6759281
1,2,4-Trichlorobenzene	0.5	0.9057442	1	0.8130136	2	0.7674788	5	0.6668867	10	0.6800235	50	0.7520681
1,1,2-Trichloroethane	0.5	0.396873	1	0.3997791	2	0.4098788	5	0.3680968	10	0.3551403	50	0.3981433
1,1,1-Trichloroethane	0.5	0.281893	1	0.3139537	2	0.3242203	5	0.2726791	10	0.2948391	50	0.3425316
Tetrahydrofuran	0.5		1	6.847448E-02	2	8.919676E-02	5	5.020587E-02	10	6.195551E-02	50	6.901773E-02
Trichloroethene	0.5	0.2699605	1	0.2436371	2	0.2654701	5	0.218424	10	0.2377842	50	0.2530296
Trichlorofluoromethane	0.5	0.3386394	1	0.3350936	2	0.3020265	5	0.2659838	10	0.323219	50	0.3484605
1,2,3-Trichloropropane	0.5	0.1858527	1	0.1820921	2	0.1840108	5	0.1658145	10	0.1733853	50	0.1844241
1,3,5-Trimethylbenzene	0.5	1.790377	1	1.782205	2	1.846771	5	1.513009	10	1.576872	50	1.702232
1,2,4-Trimethylbenzene	0.5	1.812917	1	1.847747	2	1.858682	5	1.619601	10	1.648693	50	1.759763
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.1936108	1	0.1925058	2	0.1886412	5	0.1547449	10	0.1638115	50	0.1823678
Vinyl chloride	0.5	0.1927584	1	0.2128595	2	0.2191676	5	0.2064686	10	0.2130142	50	0.2258966
m,p-Xylene	1	2.121772	2	2.212015	4	2.166852	10	1.819283	20	1.836202	100	1.877009
o-Xylene	0.5	2.314493	1	2.293783	2	2.357228	5	1.977641	10	1.988426	50	2.028044
Vinyl acetate	0.9995	0.1751716	1.999	0.1999408	3.998	0.2268043	9.995	0.2095772	19.99	0.2278334	99.95	0.2776192
Xylenes (total)	1.5	2.186013	3	2.239271	6	2.23031	15	1.872069	30	1.886943	150	1.927354
Dibromofluoromethane	30	0.2525456	30	0.2445447	30	0.2526273	30	0.2533062	30	0.256516	30	0.2537646
1,2-Dichloroethane-d4	30	5.166318E-02	30	0.0532115	30	5.406673E-02	30	0.0546442	30	5.428525E-02	30	5.442078E-02
Toluene-d8	30	2.148376	30	2.223719	30	2.192669	30	2.225586	30	2.172303	30	2.222292
tert-Amyl alcohol	2.5		5		10	6.248903E-03	25	8.228846E-03	50	1.007245E-02	250	0.0118877
tert-Amyl ethyl ether	0.5	0.572668	1	0.6344448	2	0.6783855	5	0.5715893	10	0.6319354	50	0.6843155

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone							1		2	6.406994E-02	4	7.071503E-02
Acrolein	500.2	2.434642E-02	750.3	2.469596E-02	1000	2.489138E-02						
Acrylonitrile	499.8	9.009096E-02	749.7	8.852763E-02	999.6	8.715111E-02						
Benzene	100	0.8591368	150	0.874036	200	0.8544628						
Bromobenzene	100	0.6315675	150	0.644393	200	0.6232382						
Bromochloromethane	100	0.1265465	150	0.1271653	200	0.1314299						
Tert-Amyl Methyl Ether	100	0.6533226	150	0.6568199	200	0.6519255						
Bromodichloromethane	100	0.2810268	150	0.2984811	200	0.3002115						
Bromoform	100	0.3080016	150	0.3289292	200	0.3383705						
Bromomethane	100	0.1542462	150	0.160917	200	0.1676897						
Bromofluorobenzene	30	0.9221641	30	0.8931842	30	0.8807035						
n-Butylbenzene	100	1.28482	150	1.268822	200	1.198306						
2-Butanone							1		2	~~6.112032E-02~~	4	8.168678E-02
sec-Butylbenzene	100	1.710573	150	1.652867	200	1.549203						
tert-Butylbenzene	100	1.389272	150	1.379273	200	1.30316						
Carbon disulfide	100	0.6556263	150	0.6806134	200	0.6874371						
Carbon tetrachloride	100	0.2441366	150	0.2714559	200	0.2793467						
Chlorobenzene	100	1.355558	150	1.27044	200	1.18457						
Chloroethane	100	0.1274796	150	0.1302818	200	0.1322151						
Chloroform	100	0.3954016	150	0.4013895	200	0.404641						
2-Chloroethyl vinyl ether	199.5	0.1817779	299.2	0.1780828	399	0.1745018						
Chloromethane	100	0.2402618	150	0.2464277	200	0.2469677						
1-Chlorohexane	100.2	1.086129	150.3	1.023107	200.4	0.9520627						
2-Chlorotoluene	100	1.470217	150	1.47051	200	1.37839						
4-Chlorotoluene	100	1.573298	150	1.474768	200	1.377673						
Cyclohexane	100	0.3294888	150	0.3470529	200	0.3406395						
Dibromochloromethane	100	0.4385027	150	0.4611073	200	0.4689702						
1,2-Dibromo-3-chloropropane	100	0.1290742	150	0.1378229	200	0.13973						
1,2-Dibromoethane (EDB)	100	0.4830722	150	0.4673939	200	0.4486473						
Dibromomethane	100	0.1560727	150	0.1600483	200	0.1591782						
1,2-Dichlorobenzene	100	1.036517	150	1.028762	200	0.994313						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	100	1.042642	150	1.024408	200	0.9856162						
1,4-Dichlorobenzene	100	1.066003	150	1.059164	200	1.02387						
Dichlorodifluoromethane	100	0.1835344	150	0.1921129	200	0.1898329						
1,1-Dichloroethane	100	0.4169053	150	0.4278885	200	0.4229295						
1,2-Dichloroethane	100	0.3353864	150	0.3389994	200	0.3384457						
1,1-Dichloroethene	100	0.1734232	150	0.1778938	200	0.1793694						
cis-1,2-Dichloroethene	100	0.2368708	150	0.2383321	200	0.2420432						
trans-1,2-Dichloroethene	100	0.2088602	150	0.2167202	200	0.2176827						
1,2-Dichloroethene (total)	200	0.2228655	300	0.2275261	400	0.2298629						
1,2-Dichloropropane	100	0.2549546	150	0.2626206	200	0.2581664						
1,3-Dichloropropane	100	0.7303698	150	0.7112875	200	0.6821312						
2,2-Dichloropropane	100	0.3110273	150	0.3203295	200	0.320099						
1,1-Dichloropropene	100	0.3085004	150	0.3153698	200	0.3168351						
cis-1,3-Dichloropropene	100	0.3765932	150	0.394969	200	0.3897065						
trans-1,3-Dichloropropene	100	0.6864452	150	0.6702737	200	0.6471334						
Diisopropyl Ether	100	0.8647914	150	0.8746462	200	0.8756846						
Ethylbenzene	100	2.184514	150	1.966455	200	1.734642						
Ethyl tert-Butyl Ether	100	0.7388558	150	0.7552995	200	0.7588755						
Ethyl Methacrylate	100	0.6300261	150	0.6021328	200	0.5776199						
Hexachlorobutadiene	100	0.2870466	150	0.3059458	200	0.2945441						
2-Hexanone							1	0.2314365	2	0.2168539	4	0.2976913
Iodomethane	100	0.3288645	150	0.3402867	200	0.3331268						
Isopropylbenzene	100	1.787431	150	1.632921	200	1.498208						
p-Isopropyltoluene	100	1.284872	150	1.298624	200	1.236749						
Methylene chloride	100	0.2311665	150	0.2386509	200	0.2405573						
Methyl Acetate	100	0.1731505	150	0.1688837	200	0.1706533						
Methylcyclohexane	100	0.2599595	150	0.2751915	200	0.2711709						
Naphthalene	100	1.630735	150	1.601884	200	1.518371						
Methyl Methacrylate	100	0.2349797	150	0.2364306	200	0.2332994						
4-Methyl-2-pentanone							1	0.1663313	2	0.1780584	4	0.2206147
Methyl t-Butyl Ether	100	0.5918165	150	0.5979816	200	0.6001929						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	100	2.103864	150	2.000709	200	1.794426						
Styrene	100	1.530731	150	1.431279	200	1.33186						
1,1,2,2-Tetrachloroethane	100	0.5114625	150	0.5095915	200	0.5059235						
1,1,1,2-Tetrachloroethane	100	0.4486254	150	0.4547539	200	0.4469388						
tert-Butyl alcohol	500	2.033629E-02	750	1.974109E-02	1000	2.023323E-02						
Tetrachloroethene	100	0.5530041	150	0.5350682	200	0.5171413						
Toluene	100	1.214221	150	1.160405	200	1.106291						
1,2,3-Trichlorobenzene	100	0.6340291	150	0.6469382	200	0.6313732						
1,2,4-Trichlorobenzene	100	0.6994536	150	0.7084606	200	0.6941565						
1,1,2-Trichloroethane	100	0.3693556	150	0.3562313	200	0.3431521						
1,1,1-Trichloroethane	100	0.3316693	150	0.3510886	200	0.3502134						
Tetrahydrofuran	100	6.833676E-02	150	6.538021E-02	200	6.745593E-02						
Trichloroethene	100	0.2392579	150	0.246636	200	0.2418878						
Trichlorofluoromethane	100	0.3227814	150	0.3307451	200	0.3373636						
1,2,3-Trichloropropane	100	0.1776636	150	0.1654827	200	0.1650215						
1,3,5-Trimethylbenzene	100	1.55152	150	1.50816	200	1.411114						
1,2,4-Trimethylbenzene	100	1.608313	150	1.572028	200	1.463352						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.1660749	150	0.1749342	200	0.1723987						
Vinyl chloride	100	0.2086229	150	0.2154134	200	0.2106935						
m,p-Xylene	200	1.580116	300	~~1.383295~~	400	~~1.201173~~						
o-Xylene	100	1.800962	150	1.638327	200	~~1.493609~~						
Vinyl acetate	199.9	0.2697766	299.8	0.279667	399.8	0.2764555						
Xylenes (total)	300	1.653732	450	1.468305	600	~~1.298651~~						
Dibromofluoromethane	30	0.2528044	30	0.251013	30	0.2556936						
1,2-Dichloroethane-d4	30	5.378122E-02	30	5.382132E-02	30	5.542951E-02						
Toluene-d8	30	2.152698	30	2.055283	30	2.043852						
tert-Amyl alcohol	500	1.353586E-02	750	1.340962E-02	1000	1.365648E-02						
tert-Amyl ethyl ether	100	0.6468393	150	0.6516456	200	0.6379997						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone			20	6.383628E-02	100	7.013675E-02	200	0.0665478	300	6.919478E-02	400	6.688945E-02
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone			20	9.830393E-02	100	0.1132809	200	0.1065002	300	0.1107993	400	0.1072699
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone			20	0.3324512	100	0.3830236	200	0.3569186	300	0.3640624	400	0.3449918
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone			20	0.231484	100	0.2580018	200	0.2405014	300	0.2460843	400	0.2297922
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone												
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone												
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone												
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	6.734143E-02	4.131886	5.272857	0.1204455			15	
Acrolein	2.782683E-02	29.73532	5.112667	7.753974E-02	0.9993957		0.995	
Acrylonitrile	8.996425E-02	3.703462	5.939	7.312255E-02			15	
Benzene	0.8877526	6.724026	11.99533	2.484545E-02			15	
Bromobenzene	0.658417	6.565181	17.135	2.232344E-02			15	
Bromochloromethane	0.1221319	8.014157	9.435667	4.957178E-02			15	
Tert-Amyl Methyl Ether	0.7866563	28.95886	12.35033	2.602954E-02	0.999865		0.995	
Bromodichloromethane	0.2617577	11.6682	13.01144	1.351069E-02			15	
Bromoform	0.2222152	38.32122	16.42833	2.210761E-02	0.9968521		SPCC (0.1)	
Bromomethane	0.134767	17.95102	4.303	7.115313E-02	0.9986444		0.995	
Bromofluorobenzene	0.9432064	4.141834	16.96967	9.33719E-03			15	
n-Butylbenzene	1.373729	10.74547	18.31367	9.119014E-03			15	
2-Butanone	0.1029735	11.26933	8.704167	0.2876742			15	
sec-Butylbenzene	1.78503	8.794839	17.86833	8.658072E-03			15	
tert-Butylbenzene	1.508831	11.07756	17.99367	4.489641E-03			15	
Carbon disulfide	0.6389933	6.986358	6.467667	9.799745E-02			15	
Carbon tetrachloride	0.2178602	18.32864	11.952	0.0271791	0.9966548		0.995	
Chlorobenzene	1.436424	10.55311	16.022	1.374265E-02			SPCC (0.3)	
Chloroethane	0.1259794	7.710992	4.464333	8.993927E-02			15	
Chloroform	0.4027485	5.782466	9.585667	3.428825E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.1750304	6.523102	13.61756	4.415385E-02			15	
Chloromethane	0.2467998	4.887919	3.656	8.056094E-02			SPCC (0.1)	
1-Chlorohexane	1.167282	13.78944	15.985	1.315906E-02			15	
2-Chlorotoluene	1.557085	8.347254	17.35333	6.828885E-03			15	
4-Chlorotoluene	1.615142	9.996862	17.41433	1.315012E-02			15	
Cyclohexane	0.3419423	5.528723	11.84133	5.030834E-02			15	
Dibromochloromethane	0.3561249	23.7061	15.00533	1.372953E-02	0.9986537		0.995	
1,2-Dibromo-3-chloropropane	0.1049106	25.64299	18.65733	2.335638E-02	0.9982178		0.995	
1,2-Dibromoethane (EDB)	0.4787408	5.397178	15.23767	1.253351E-02			15	
Dibromomethane	0.155373	4.148513	12.83	2.483071E-02			15	
1,2-Dichlorobenzene	1.083088	7.010621	18.285	8.946731E-03			15	
1,3-Dichlorobenzene	1.123795	10.89399	17.944	1.601189E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1042001	Instrument:	MS-VOA3
Matrix:	Water	Calibration Date:	2/9/2011 8:01:52AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.153886	8.916754	17.993	1.058319E-02			15	
Dichlorodifluoromethane	0.1736804	12.6814	3.449667	0.0911626			15	
1,1-Dichloroethane	0.4157175	5.684783	7.742	5.272704E-02			SPCC (0.1)	
1,2-Dichloroethane	0.3303627	5.286019	11.13189	3.819698E-02			15	
1,1-Dichloroethene	0.1766574	5.439883	5.899556	6.016249E-02			CCC (20)	
cis-1,2-Dichloroethene	0.2378304	5.961484	9.068667	7.826884E-02			15	
trans-1,2-Dichloroethene	0.2137549	5.616217	7.240333	7.187083E-02			15	
1,2-Dichloroethene (total)	0.2257926	5.66826	0	0			15	
1,2-Dichloropropane	0.2562795	4.808453	12.895	2.236072E-02			CCC (20)	
1,3-Dichloropropane	0.7476228	6.565771	14.762	1.645115E-02			15	
2,2-Dichloropropane	0.3047453	7.536233	9.817	6.765373E-02			15	
1,1-Dichloropropene	0.3077578	6.277739	11.69733	3.520369E-02			15	
cis-1,3-Dichloropropene	0.3687261	6.715723	13.85867	2.725416E-02			15	
trans-1,3-Dichloropropene	0.6343731	7.849772	14.353	2.839321E-02			15	
Diisopropyl Ether	0.8328406	6.498419	8.845667	4.787607E-02			15	
Ethylbenzene	2.356804	14.6307	16.18733	2.521386E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.6967914	8.80672	9.904556	4.608595E-02			15	
Ethyl Methacrylate	0.5504545	13.59658	14.83656	5.480763E-02			15	
Hexachlorobutadiene	0.3096349	16.75068	20.199	1.725689E-02	0.9992167		0.995	
2-Hexanone	0.3159287	19.62314	14.95788	0.1536743	0.9985677		0.995	
Iodomethane	0.2812665	19.26399	5.943	0.102056	0.9996984		0.995	
Isopropylbenzene	1.931811	13.91947	16.94	1.393468E-02			15	
p-Isopropyltoluene	1.341973	7.51519	17.70033	1.045186E-02			15	
Methylene chloride	0.2430347	7.249268	6.115889	6.876087E-02			15	
Methyl Acetate	0.1690587	5.282551	6.153333	0.1019137			15	
Methylcyclohexane	0.2740638	7.278646	13.64433	2.119816E-02			15	
Naphthalene	1.637823	5.048973	20.15867	1.530895E-02			15	
Methyl Methacrylate	0.2153219	10.65267	13.299	6.891426E-02			15	
4-Methyl-2-pentanone	0.2213585	14.68593	14.01325	5.837834E-02			15	
Methyl t-Butyl Ether	0.5783993	5.415197	7.494	8.264436E-02			15	
n-Propylbenzene	2.265422	12.4461	17.27367	1.504421E-02			15	
Styrene	1.55917	8.296739	16.606	2.160731E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1042001
Instrument: MS-VOA3
Matrix: Water
Calibration Date: 2/9/2011 8:01:52AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.5234688	3.543321	16.66756	6.055184E-03			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.3922633	14.19435	15.965	1.611869E-02			15	
tert-Butyl alcohol	1.806783E-02	13.17667	5.901556	8.978124E-02			15	
Tetrachloroethene	0.5803178	9.212702	15.42567	1.615863E-02			15	
Toluene	1.266817	9.153244	14.69622	1.173103E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.6692996	9.814259	20.39467	2.147976E-02			15	
1,2,4-Trichlorobenzene	0.7430317	10.34887	19.89633	1.991692E-02			15	
1,1,2-Trichloroethane	0.3774056	6.376428	14.50167	8.979918E-03			15	
1,1,1-Trichloroethane	0.3181209	9.211913	11.33911	4.512402E-02			15	
Tetrahydrofuran	6.750291E-02	15.92611	10.47212	0.1226981	0.9994273		0.995	
Trichloroethene	0.2462319	6.256117	12.97667	2.763548E-02			15	
Trichlorofluoromethane	0.3227014	7.743543	5.156222	6.336786E-02			15	
1,2,3-Trichloropropane	0.1759719	4.977682	16.77467	1.222676E-02			15	
1,3,5-Trimethylbenzene	1.631362	9.359366	17.476	2.218609E-02			15	
1,2,4-Trimethylbenzene	1.6879	8.163573	17.77867	7.414698E-03			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1765655	7.73711	6.211	8.515101E-02			15	
Vinyl chloride	0.211655	4.326316	3.853889	5.652913E-02			CCC (20)	
m,p-Xylene	1.94475	11.82239	16.344	2.217847E-02			15	
o-Xylene	2.049863	12.57041	16.66062	1.171739E-02			15	
Vinyl acetate	0.238094	16.4196	8.031333	0.1635173	0.9997745		0.995	
Xylenes (total)	1.933	14.44837	0	0			15	
Dibromofluoromethane	0.2525351	1.358663	9.895667	6.587298E-02			15	
1,2-Dichloroethane-d4	5.392485E-02	1.948573	10.978	4.105036E-02			15	
Toluene-d8	2.159642	3.19565	14.62256	6.619058E-03			15	
tert-Amyl alcohol	1.100569E-02	26.54099	10.834	5.509799E-02	0.9993611		0.995	
tert-Amyl ethyl ether	0.6344248	6.268733	13.53989	1.578894E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	SEQ-ICV1.D	Calibration Date:	12/13/10 14:13
Sequence:	0L34902	Injection Date:	12/13/10
Lab Sample ID:	0L34902-ICV1	Injection Time:	19:14

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzene	A	50.00	50.47	0.8446166	0.8525389		0.9	20
Bromobenzene	A	50.00	53.18	0.6204208	0.6598372		6.4	20
Bromochloromethane	A	50.00	53.82	0.1224323	0.1317814		7.6	20
Bromodichloromethane	A	50.00	50.08	0.3700131	0.3705788		0.2	20
Bromoform	A	50.00	55.44	0.3580188	0.3969678	0.1	10.9	20
Bromomethane	L	50.00	42.68	0.1720739	0.1828664		-14.6	20
n-Butylbenzene	A	50.00	52.55	1.598974	1.680413		5.1	20
sec-Butylbenzene	A	50.00	53.19	2.053309	2.184335		6.4	20
tert-Butylbenzene	A	50.00	51.40	1.63694	1.682618		2.8	20
Carbon disulfide	A	50.00	51.96	0.740979	0.7700032		3.9	20
Carbon tetrachloride	A	50.00	48.47	0.3202351	0.3104302		-3.1	20
Chlorobenzene	A	50.00	51.95	1.220943	1.26847	0.3	3.9	20
Chloroethane	A	50.00	49.55	0.1624884	0.1610407		-0.9	20
Chloroform	A	50.00	46.61	0.4766249	0.4443466		-6.8	20
Chloromethane	A	50.00	49.31	0.3346068	0.3299584	0.1	-1.4	20
2-Chlorotoluene	A	50.00	51.57	1.714444	1.768292		3.1	20
4-Chlorotoluene	A	50.00	51.44	1.808579	1.860785		2.9	20
Dibromochloromethane	A	50.00	53.57	0.5285393	0.5663252		7.1	20
1,2-Dibromo-3-chloropropane	A	50.00	54.70	0.1257405	0.1375679		9.4	20
1,2-Dibromoethane (EDB)	A	50.00	53.02	0.4888881	0.5184059		6.0	20
Dibromomethane	A	50.00	49.71	0.1899021	0.1888078		-0.6	20
1,2-Dichlorobenzene	A	50.00	51.40	1.057762	1.087484		2.8	20
1,3-Dichlorobenzene	A	50.00	48.94	1.134514	1.110547		-2.1	20
1,4-Dichlorobenzene	A	50.00	51.22	1.202795	1.232139		2.4	20
Dichlorodifluoromethane	A	50.00	51.31	0.3200111	0.3284131		2.6	20
1,1-Dichloroethane	A	50.00	49.05	0.4470751	0.4385539	0.1	-1.9	20
1,2-Dichloroethane	A	50.00	46.34	0.4169138	0.3864328		-7.3	20
1,1-Dichloroethene	A	50.00	55.80	0.1854158	0.2069069		11.6	20
cis-1,2-Dichloroethene	A	50.00	52.42	0.2319594	0.2431796		4.8	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	SEQ-ICV1.D	Calibration Date:	12/13/10 14:13
Sequence:	0L34902	Injection Date:	12/13/10
Lab Sample ID:	0L34902-ICV1	Injection Time:	19:14

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
trans-1,2-Dichloroethene	A	50.00	52.73	0.2207055	0.2327379		5.5	20
1,2-Dichloropropane	A	50.00	49.79	0.2489638	0.2479107		-0.4	20
1,3-Dichloropropane	A	50.00	49.43	0.8026791	0.7934915		-1.1	20
2,2-Dichloropropane	A	50.00	44.67	0.3707689	0.3312786		-10.7	20
1,1-Dichloropropene	A	50.00	53.03	0.3237741	0.3433633		6.1	20
cis-1,3-Dichloropropene	A	50.00	48.27	0.4124454	0.3981959		-3.5	20
trans-1,3-Dichloropropene	A	50.00	58.67	0.7158689	0.8400282		17.3	20
Ethylbenzene	A	50.00	52.17	2.007809	2.094992		4.3	20
Hexachlorobutadiene	A	50.00	56.12	0.2687676	0.3016678		12.2	20
Isopropylbenzene	A	50.00	56.51	1.566413	1.770488		13.0	20
p-Isopropyltoluene	A	50.00	54.08	1.324729	1.432807		8.2	20
Methylene chloride	A	50.00	49.52	0.2617562	0.2592243		-1.0	20
Naphthalene	A	50.00	55.11	1.415562	1.560129		10.2	20
Methyl t-Butyl Ether	A	50.00	52.54	0.5979716	0.6283221		5.1	20
n-Propylbenzene	A	50.00	53.69	2.594076	2.785659		7.4	20
Styrene	A	50.00	55.50	1.204421	1.337017		11.0	20
1,1,2,2-Tetrachloroethane	A	50.00	51.52	0.7277649	0.749886	0.3	3.0	20
1,1,1,2-Tetrachloroethane	A	50.00	50.87	0.4510822	0.4588884		1.7	20
Tetrachloroethene	A	50.00	53.15	0.471928	0.501621		6.3	20
Toluene	A	50.00	51.58	1.049879	1.083057		3.2	20
1,2,3-Trichlorobenzene	A	50.00	52.33	0.5841777	0.6113597		4.7	20
1,2,4-Trichlorobenzene	A	50.00	51.81	0.6562098	0.6799097		3.6	20
1,1,2-Trichloroethane	A	50.00	51.70	0.3903573	0.4036473		3.4	20
1,1,1-Trichloroethane	A	50.00	47.63	0.3663266	0.348945		-4.7	20
Trichloroethene	A	50.00	50.38	0.246407	0.2482574		0.8	20
Trichlorofluoromethane	A	50.00	47.66	0.4122274	0.3929249		-4.7	20
1,2,3-Trichloropropane	A	50.00	48.32	0.1661066	0.1605261		-3.4	20
1,3,5-Trimethylbenzene	A	50.00	51.30	1.696793	1.740882		2.6	20
1,2,4-Trimethylbenzene	A	50.00	53.64	1.726979	1.852544		7.3	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	SEQ-ICV1.D	Calibration Date:	12/13/10 14:13
Sequence:	0L34902	Injection Date:	12/13/10
Lab Sample ID:	0L34902-ICV1	Injection Time:	19:14

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Vinyl chloride	A	50.00	49.87	0.305846	0.3050633		-0.3	20
m,p-Xylene	A	100.0	103.3	1.54219	1.593317		3.3	20
o-Xylene	A	50.00	51.96	1.656056	1.721054		3.9	20
Bromofluorobenzene	A	30.00	29.29	0.8788963	0.8581073		-2.4	20
Dibromofluoromethane	A	30.00	29.02	0.3260638	0.3154123		-3.3	20
1,2-Dichloroethane-d4	A	30.00	29.96	6.495731E-02	6.486496E-02		-0.1	20
Toluene-d8	A	30.00	32.06	1.870203	1.998743		6.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	SEQ-ICV3.D	Calibration Date:	12/13/10 14:13
Sequence:	0L34902	Injection Date:	12/14/10
Lab Sample ID:	0L34902-ICV2	Injection Time:	10:27

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	L	200.0	206.8	9.490153E-02	9.360305E-02		3.4	20
2-Butanone	L	200.0	209.9	0.1122502	0.1278963		4.9	20
2-Hexanone	L	200.0	210.9	0.36419	0.3970769		5.4	20
4-Methyl-2-pentanone	L	200.0	211.4	0.2489881	0.2775549		5.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0209ICV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04204	Injection Date:	02/09/11
Lab Sample ID:	1B04204-ICV1	Injection Time:	12:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)	
Benzene	A	100.0	98.61	0.8877526	0.8754519		-1.4	20	
Bromobenzene	A	100.0	96.82	0.658417	0.6374675		-3.2	20	
Bromochloromethane	A	100.0	104.4	0.1221319	0.127462		4.4	20	
Bromodichloromethane	A	100.0	116.9	0.2617577	0.3060053		16.9	20	
Bromoform	L	100.0	101.8	0.2222152	0.3310082	0.1	1.8	20	
Bromomethane	L	100.0	98.53	0.134767	0.1599718		-1.5	20	
n-Butylbenzene	A	100.0	92.95	1.373729	1.276939		-7.0	20	
sec-Butylbenzene	A	100.0	95.92	1.78503	1.712249		-4.1	20	
tert-Butylbenzene	A	100.0	96.14	1.508831	1.450665		-3.9	20	
Carbon disulfide	A	100.0	113.3	0.6389933	0.7241915		13.3	20	
Carbon tetrachloride	L	100.0	99.47	0.2178602	0.2669694		-0.5	20	
Chlorobenzene	A	100.0	95.93	1.436424	1.377992	0.3	-4.1	20	
Chloroethane	A	100.0	106.0	0.1259794	0.133548		6.0	20	
Chloroform	A	100.0	98.09	0.4027485	0.3950397		-1.9	20	
Chloromethane	A	100.0	112.9	0.2467998	0.2786856	0.1	12.9	20	
2-Chlorotoluene	A	100.0	97.46	1.557085	1.517555		-2.5	20	
4-Chlorotoluene	A	100.0	95.12	1.615142	1.536353		-4.9	20	
Dibromochloromethane	L	100.0	105.6	0.3561249	0.4826405		5.6	20	
1,2-Dibromo-3-chloropropane	L	100.0	96.44	0.1049106	0.130851		-3.6	20	
1,2-Dibromoethane (EDB)	A	100.0	100.8	0.4787408	0.4825239		0.8	20	
Dibromomethane	A	100.0	102.0	0.155373	0.1584544		2.0	20	
1,2-Dichlorobenzene	A	100.0	95.69	1.083088	1.03646		-4.3	20	
1,3-Dichlorobenzene	A	100.0	93.55	1.123795	1.051362		-6.4	20	
1,4-Dichlorobenzene	A	100.0	92.63	1.153886	1.06889		-7.4	20	
Dichlorodifluoromethane	A	100.0	143.0	0.1736804	0.2482943		43.0	20	*
1,1-Dichloroethane	A	100.0	101.1	0.4157175	0.4204233	0.1	1.1	20	
1,2-Dichloroethane	A	100.0	101.2	0.3303627	0.3342831		1.2	20	
1,1-Dichloroethene	A	100.0	109.3	0.1766574	0.1931641		9.3	20	
cis-1,2-Dichloroethene	A	100.0	98.74	0.2378304	0.2348456		-1.3	20	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0209ICV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04204	Injection Date:	02/09/11
Lab Sample ID:	1B04204-ICV1	Injection Time:	12:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
trans-1,2-Dichloroethene	A	100.0	102.4	0.2137549	0.2188265		2.4	20
1,2-Dichloropropane	A	100.0	101.0	0.2562795	0.2588877		1.0	20
1,3-Dichloropropane	A	100.0	97.49	0.7476228	0.7288219		-2.5	20
2,2-Dichloropropane	A	100.0	98.92	0.3047453	0.3014667		-1.1	20
1,1-Dichloropropene	A	100.0	101.9	0.3077578	0.3136846		1.9	20
cis-1,3-Dichloropropene	A	100.0	102.0	0.3687261	0.3759799		2.0	20
trans-1,3-Dichloropropene	A	100.0	117.9	0.6343731	0.7477025		17.9	20
Ethylbenzene	A	100.0	93.26	2.356804	2.197843		-6.7	20
Hexachlorobutadiene	L	100.0	104.9	0.3096349	0.3113485		4.9	20
Isopropylbenzene	A	100.0	97.29	1.931811	1.879531		-2.7	20
p-Isopropyltoluene	A	100.0	97.93	1.341973	1.314139		-2.1	20
Methylene chloride	A	100.0	97.27	0.2430347	0.2363881		-2.7	20
Naphthalene	A	100.0	97.52	1.637823	1.597163		-2.5	20
Methyl t-Butyl Ether	A	200.0	198.3	0.5783993	0.5734028		-0.9	20
n-Propylbenzene	A	100.0	94.99	2.265422	2.152023		-5.0	20
Styrene	A	100.0	101.1	1.55917	1.576227		1.1	20
1,1,2,2-Tetrachloroethane	A	100.0	98.64	0.5234688	0.5163364	0.3	-1.4	20
1,1,1,2-Tetrachloroethane	A	100.0	119.4	0.3922633	0.4685512		19.4	20
Tetrachloroethene	A	100.0	97.25	0.5803178	0.5643474		-2.8	20
Toluene	A	100.0	96.30	1.266817	1.219986		-3.7	20
1,2,3-Trichlorobenzene	A	100.0	94.36	0.6692996	0.6315523		-5.6	20
1,2,4-Trichlorobenzene	A	100.0	92.86	0.7430317	0.6899524		-7.1	20
1,1,2-Trichloroethane	A	100.0	96.87	0.3774056	0.3655906		-3.1	20
1,1,1-Trichloroethane	A	100.0	106.3	0.3181209	0.3380254		6.3	20
Trichloroethene	A	100.0	100.0	0.2462319	0.246225		-0.003	20
Trichlorofluoromethane	A	100.0	103.8	0.3227014	0.3349294		3.8	20
1,2,3-Trichloropropane	A	100.0	98.52	0.1759719	0.173367		-1.5	20
1,3,5-Trimethylbenzene	A	100.0	96.25	1.631362	1.570187		-3.7	20
1,2,4-Trimethylbenzene	A	100.0	97.23	1.6879	1.641188		-2.8	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0209ICV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04204	Injection Date:	02/09/11
Lab Sample ID:	1B04204-ICV1	Injection Time:	12:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Vinyl chloride	A	100.0	109.1	0.211655	0.2309513		9.1	20
m,p-Xylene	A	200.0	162.6	1.94475	1.580598		-18.7	20
o-Xylene	A	100.0	88.44	2.049863	1.812892		-11.6	20
Bromofluorobenzene	A	30.00	29.31	0.9432064	0.9214516		-2.3	20
Dibromofluoromethane	A	30.00	29.50	0.2525351	0.248311		-1.7	20
1,2-Dichloroethane-d4	A	30.00	31.00	5.392485E-02	5.571539E-02		3.3	20
Toluene-d8	A	30.00	29.76	2.159642	2.142179		-0.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0209ICV3.D	Calibration Date:	02/09/11 08:01
Sequence:	1B04204	Injection Date:	02/09/11
Lab Sample ID:	1B04204-ICV3	Injection Time:	18:03

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	200.0	212.6	6.734143E-02	7.158481E-02		6.3	20
2-Butanone	A	200.0	223.5	0.1029735	0.1150657		11.7	20
2-Hexanone	L	200.0	214.8	0.3159287	0.3806354		7.4	20
4-Methyl-2-pentanone	A	200.0	234.7	0.2213585	0.2597223		17.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0217CCVE.D	Calibration Date:	02/09/11 08:01
Sequence:	1B05006	Injection Date:	02/17/11
Lab Sample ID:	1B05006-CCV1	Injection Time:	21:07

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	200.0	235.8	6.734143E-02	7.941452E-02		17.9	20	
Benzene	A	100.0	100.9	0.8877526	0.8954488		0.9	20	
Bromobenzene	A	100.0	102.8	0.658417	0.6769791		2.8	20	
Bromochloromethane	A	100.0	113.2	0.1221319	0.138202		13.2	20	
Bromodichloromethane	A	100.0	128.8	0.2617577	0.3372017		28.8	20	*
Bromoform	L	100.0	119.4	0.2222152	0.3908758	0.1	19.4	20	
Bromomethane	L	100.0	57.04	0.134767	9.120435E-02		-43.0	20	*
n-Butylbenzene	A	100.0	97.43	1.373729	1.338372		-2.6	20	
2-Butanone	A	200.0	212.1	0.1029735	0.1091889		6.0	20	
sec-Butylbenzene	A	100.0	99.28	1.78503	1.772248		-0.7	20	
tert-Butylbenzene	A	100.0	98.79	1.508831	1.49052		-1.2	20	
Carbon disulfide	A	100.0	113.8	0.6389933	0.7273937		13.8	20	
Carbon tetrachloride	L	100.0	121.1	0.2178602	0.3267997		21.1	20	*
Chlorobenzene	A	100.0	99.13	1.436424	1.423995	0.3	-0.9	20	
Chloroethane	A	100.0	112.6	0.1259794	0.1418983		12.6	20	
Chloroform	A	100.0	111.9	0.4027485	0.4505798		11.9	20	
Chloromethane	A	100.0	96.86	0.2467998	0.2390463	0.1	-3.1	20	
2-Chlorotoluene	A	100.0	98.83	1.557085	1.5389		-1.2	20	
4-Chlorotoluene	A	100.0	100.2	1.615142	1.618072		0.2	20	
Dibromochloromethane	L	100.0	112.7	0.3561249	0.5158962		12.7	20	
1,2-Dibromo-3-chloropropane	L	100.0	108.3	0.1049106	0.1474467		8.3	20	
1,2-Dibromoethane (EDB)	A	100.0	105.9	0.4787408	0.5068484		5.9	20	
Dibromomethane	A	100.0	114.9	0.155373	0.1785304		14.9	20	
1,2-Dichlorobenzene	A	100.0	102.4	1.083088	1.109416		2.4	20	
1,3-Dichlorobenzene	A	100.0	95.67	1.123795	1.075189		-4.3	20	
1,4-Dichlorobenzene	A	100.0	103.9	1.153886	1.199189		3.9	20	
Dichlorodifluoromethane	A	100.0	147.5	0.1736804	0.2561883		47.5	20	*
1,1-Dichloroethane	A	100.0	109.8	0.4157175	0.456658	0.1	9.8	20	
1,2-Dichloroethane	A	100.0	118.4	0.3303627	0.3910799		18.4	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0217CCVE.D	Calibration Date:	02/09/11 08:01
Sequence:	1B05006	Injection Date:	02/17/11
Lab Sample ID:	1B05006-CCV1	Injection Time:	21:07

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	100.0	107.8	0.1766574	0.1904153		7.8	20	
cis-1,2-Dichloroethene	A	100.0	107.6	0.2378304	0.255876		7.6	20	
trans-1,2-Dichloroethene	A	100.0	107.7	0.2137549	0.2302172		7.7	20	
1,2-Dichloropropane	A	100.0	104.1	0.2562795	0.2667694		4.1	20	
1,3-Dichloropropane	A	100.0	101.1	0.7476228	0.7561546		1.1	20	
2,2-Dichloropropane	A	100.0	98.37	0.3047453	0.2997734		-1.6	20	
1,1-Dichloropropene	A	100.0	107.0	0.3077578	0.3294284		7.0	20	
cis-1,3-Dichloropropene	A	100.0	110.9	0.3687261	0.4089118		10.9	20	
trans-1,3-Dichloropropene	A	100.0	106.1	0.6343731	0.6731907		6.1	20	
Ethylbenzene	A	100.0	96.62	2.356804	2.277046		-3.4	20	
Hexachlorobutadiene	L	100.0	98.66	0.3096349	0.2926775		-1.3	20	
2-Hexanone	L	200.0	199.0	0.3159287	0.3528753		-0.5	20	
Isopropylbenzene	A	100.0	98.17	1.931811	1.896472		-1.8	20	
p-Isopropyltoluene	A	100.0	100.2	1.341973	1.34483		0.2	20	
Methylene chloride	A	100.0	104.2	0.2430347	0.2531541		4.2	20	
Naphthalene	A	100.0	106.1	1.637823	1.737763		6.1	20	
4-Methyl-2-pentanone	A	200.0	237.7	0.2213585	0.2630789		18.8	20	
Methyl t-Butyl Ether	A	100.0	112.3	0.5783993	0.6496848		12.3	20	
n-Propylbenzene	A	100.0	98.74	2.265422	2.236838		-1.3	20	
Styrene	A	100.0	102.6	1.55917	1.599606		2.6	20	
1,1,2,2-Tetrachloroethane	A	100.0	96.78	0.5234688	0.5066276	0.3	-3.2	20	
1,1,1,2-Tetrachloroethane	A	100.0	130.4	0.3922633	0.511694		30.4	20	*
Tetrachloroethene	A	100.0	100.2	0.5803178	0.5816275		0.2	20	
Toluene	A	100.0	95.48	1.266817	1.209574		-4.5	20	
1,2,3-Trichlorobenzene	A	100.0	102.7	0.6692996	0.6874905		2.7	20	
1,2,4-Trichlorobenzene	A	100.0	101.0	0.7430317	0.7502181		1.0	20	
1,1,2-Trichloroethane	A	100.0	99.95	0.3774056	0.3772138		-0.05	20	
1,1,1-Trichloroethane	A	100.0	122.6	0.3181209	0.3901613		22.6	20	*
Trichloroethene	A	100.0	109.5	0.2462319	0.269638		9.5	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0217CCVE.D	Calibration Date:	02/09/11 08:01
Sequence:	1B05006	Injection Date:	02/17/11
Lab Sample ID:	1B05006-CCV1	Injection Time:	21:07

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	124.0	0.3227014	0.4003418		24.1	20 *
1,2,3-Trichloropropane	A	100.0	112.8	0.1759719	0.1985733		12.8	20
1,3,5-Trimethylbenzene	A	100.0	100.5	1.631362	1.638986		0.5	20
1,2,4-Trimethylbenzene	A	100.0	100.1	1.6879	1.690373		0.1	20
Vinyl chloride	A	100.0	108.7	0.211655	0.2301574		8.7	20
m,p-Xylene	A	200.0	173.8	1.94475	1.690531		-13.1	20
o-Xylene	A	100.0	92.18	2.049863	1.88951		-7.8	20
Bromofluorobenzene	A	30.00	29.63	0.9432064	0.9316679		-1.2	20
Dibromofluoromethane	A	30.00	31.40	0.2525351	0.2643502		4.7	20
1,2-Dichloroethane-d4	A	30.00	31.00	5.392485E-02	5.571815E-02		3.3	20
Toluene-d8	A	30.00	28.64	2.159642	2.06182		-4.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0219CCV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B05201	Injection Date:	02/19/11
Lab Sample ID:	1B05201-CCV1	Injection Time:	11:20

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	258.8	6.734143E-02	8.714887E-02		29.4	20 *
Benzene	A	100.0	92.77	0.8877526	0.8235393		-7.2	20
Bromobenzene	A	100.0	92.33	0.658417	0.607922		-7.7	20
Bromochloromethane	A	100.0	104.6	0.1221319	0.1277877		4.6	20
Bromodichloromethane	A	100.0	123.5	0.2617577	0.323321		23.5	20 *
Bromoform	L	100.0	113.4	0.2222152	0.3705026	0.1	13.4	20
Bromomethane	L	100.0	60.11	0.134767	9.630532E-02		-39.9	20 *
n-Butylbenzene	A	100.0	90.76	1.373729	1.246867		-9.2	20
2-Butanone	A	200.0	260.8	0.1029735	0.1342528		30.4	20 *
sec-Butylbenzene	A	100.0	90.98	1.78503	1.623994		-9.0	20
tert-Butylbenzene	A	100.0	92.21	1.508831	1.391336		-7.8	20
Carbon disulfide	A	100.0	105.3	0.6389933	0.6726966		5.3	20
Carbon tetrachloride	L	100.0	116.9	0.2178602	0.3152387		16.9	20
Chlorobenzene	A	100.0	92.24	1.436424	1.324995	0.3	-7.8	20
Chloroethane	A	100.0	107.7	0.1259794	0.1356409		7.7	20
Chloroform	A	100.0	104.5	0.4027485	0.4209001		4.5	20
Chloromethane	A	100.0	96.26	0.2467998	0.237574	0.1	-3.7	20
2-Chlorotoluene	A	100.0	91.13	1.557085	1.419028		-8.9	20
4-Chlorotoluene	A	100.0	91.50	1.615142	1.477786		-8.5	20
Dibromochloromethane	L	100.0	106.5	0.3561249	0.4868337		6.5	20
1,2-Dibromo-3-chloropropane	L	100.0	98.89	0.1049106	0.134281		-1.1	20
1,2-Dibromoethane (EDB)	A	100.0	96.88	0.4787408	0.4638033		-3.1	20
Dibromomethane	A	100.0	104.5	0.155373	0.1623103		4.5	20
1,2-Dichlorobenzene	A	100.0	93.11	1.083088	1.008459		-6.9	20
1,3-Dichlorobenzene	A	100.0	92.09	1.123795	1.034892		-7.9	20
1,4-Dichlorobenzene	A	100.0	90.67	1.153886	1.046285		-9.3	20
Dichlorodifluoromethane	A	100.0	159.8	0.1736804	0.2774549		59.8	20 *
1,1-Dichloroethane	A	100.0	100.4	0.4157175	0.4172186	0.1	0.4	20
1,2-Dichloroethane	A	100.0	112.3	0.3303627	0.3710501		12.3	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0219CCV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B05201	Injection Date:	02/19/11
Lab Sample ID:	1B05201-CCV1	Injection Time:	11:20

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	100.0	100.1	0.1766574	0.1768882		0.1	20	
cis-1,2-Dichloroethene	A	100.0	98.12	0.2378304	0.2333646		-1.9	20	
trans-1,2-Dichloroethene	A	100.0	97.51	0.2137549	0.208438		-2.5	20	
1,2-Dichloropropane	A	100.0	96.19	0.2562795	0.2465248		-3.8	20	
1,3-Dichloropropane	A	100.0	92.70	0.7476228	0.693035		-7.3	20	
2,2-Dichloropropane	A	100.0	111.5	0.3047453	0.3398981		11.5	20	
1,1-Dichloropropene	A	100.0	101.9	0.3077578	0.3137395		1.9	20	
cis-1,3-Dichloropropene	A	100.0	104.8	0.3687261	0.3866147		4.9	20	
trans-1,3-Dichloropropene	A	100.0	103.2	0.6343731	0.6549459		3.2	20	
Ethylbenzene	A	100.0	91.49	2.356804	2.156349		-8.5	20	
Hexachlorobutadiene	L	100.0	92.55	0.3096349	0.274475		-7.4	20	
2-Hexanone	L	200.0	234.7	0.3159287	0.4156622		17.4	20	
Isopropylbenzene	A	100.0	94.52	1.931811	1.825877		-5.5	20	
p-Isopropyltoluene	A	100.0	92.84	1.341973	1.245857		-7.2	20	
Methylene chloride	A	100.0	95.53	0.2430347	0.2321684		-4.5	20	
Naphthalene	A	100.0	94.96	1.637823	1.555252		-5.0	20	
4-Methyl-2-pentanone	A	200.0	286.8	0.2213585	0.3174396		43.4	20	*
Methyl t-Butyl Ether	A	100.0	103.4	0.5783993	0.5982386		3.4	20	
n-Propylbenzene	A	100.0	92.49	2.265422	2.09527		-7.5	20	
Styrene	A	100.0	93.80	1.55917	1.462494		-6.2	20	
1,1,2,2-Tetrachloroethane	A	100.0	86.75	0.5234688	0.4541245	0.3	-13.2	20	
1,1,1,2-Tetrachloroethane	A	100.0	122.8	0.3922633	0.4816727		22.8	20	*
Tetrachloroethene	A	100.0	92.75	0.5803178	0.5382684		-7.2	20	
Toluene	A	100.0	89.07	1.266817	1.12837		-10.9	20	
1,2,3-Trichlorobenzene	A	100.0	92.28	0.6692996	0.6175991		-7.7	20	
1,2,4-Trichlorobenzene	A	100.0	91.01	0.7430317	0.6762109		-9.0	20	
1,1,2-Trichloroethane	A	100.0	90.59	0.3774056	0.3418966		-9.4	20	
1,1,1-Trichloroethane	A	100.0	118.3	0.3181209	0.3763742		18.3	20	
Trichloroethene	A	100.0	104.6	0.2462319	0.2574648		4.6	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0219CCV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B05201	Injection Date:	02/19/11
Lab Sample ID:	1B05201-CCV1	Injection Time:	11:20

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	116.2	0.3227014	0.3751464		16.3	20
1,2,3-Trichloropropane	A	100.0	102.4	0.1759719	0.1802504		2.4	20
1,3,5-Trimethylbenzene	A	100.0	92.65	1.631362	1.511509		-7.3	20
1,2,4-Trimethylbenzene	A	100.0	91.40	1.6879	1.542669		-8.6	20
Vinyl chloride	A	100.0	106.3	0.211655	0.224982		6.3	20
m,p-Xylene	A	200.0	166.5	1.94475	1.61917		-16.7	20
o-Xylene	A	100.0	87.78	2.049863	1.79947		-12.2	20
Bromofluorobenzene	A	30.00	30.50	0.9432064	0.9590918		1.7	20
Dibromofluoromethane	A	30.00	31.86	0.2525351	0.2681778		6.2	20
1,2-Dichloroethane-d4	A	30.00	30.60	5.392485E-02	0.0549994		2.0	20
Toluene-d8	A	30.00	28.88	2.159642	2.078665		-3.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0218CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05303	Injection Date:	02/18/11
Lab Sample ID:	1B05303-CCV1	Injection Time:	08:43

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	L	200.0	225.2	9.490153E-02	0.101974		12.6	20	
Benzene	A	100.0	101.4	0.8446166	0.8565535		1.4	20	
Bromobenzene	A	100.0	108.1	0.6204208	0.6708072		8.1	20	
Bromochloromethane	A	100.0	111.0	0.1224323	0.1359192		11.0	20	
Bromodichloromethane	A	100.0	119.1	0.3700131	0.4408586		19.1	20	
Bromoform	A	100.0	125.8	0.3580188	0.4502872	0.1	25.8	20	*
Bromomethane	L	100.0	102.3	0.1720739	0.2240494		2.3	20	
n-Butylbenzene	A	100.0	100.9	1.598974	1.612799		0.9	20	
2-Butanone	L	200.0	174.6	0.1122502	0.1062093		-12.7	20	
sec-Butylbenzene	A	100.0	103.8	2.053309	2.131892		3.8	20	
tert-Butylbenzene	A	100.0	103.9	1.63694	1.701162		3.9	20	
Carbon disulfide	A	100.0	97.40	0.740979	0.7217148		-2.6	20	
Carbon tetrachloride	A	100.0	130.6	0.3202351	0.4183934		30.7	20	*
Chlorobenzene	A	100.0	92.67	1.220943	1.131482	0.3	-7.3	20	
Chloroethane	A	100.0	103.5	0.1624884	0.1682139		3.5	20	
Chloroform	A	100.0	113.0	0.4766249	0.5383625		13.0	20	
Chloromethane	A	100.0	88.77	0.3346068	0.2970347	0.1	-11.2	20	
2-Chlorotoluene	A	100.0	98.22	1.714444	1.683944		-1.8	20	
4-Chlorotoluene	A	100.0	101.6	1.808579	1.838502		1.7	20	
Dibromochloromethane	A	100.0	110.5	0.5285393	0.5840986		10.5	20	
1,2-Dibromo-3-chloropropane	A	100.0	115.9	0.1257405	0.1457587		15.9	20	
1,2-Dibromoethane (EDB)	A	100.0	101.6	0.4888881	0.4964888		1.6	20	
Dibromomethane	A	100.0	114.7	0.1899021	0.2179015		14.7	20	
1,2-Dichlorobenzene	A	100.0	104.0	1.057762	1.100623		4.1	20	
1,3-Dichlorobenzene	A	100.0	102.8	1.134514	1.165896		2.8	20	
1,4-Dichlorobenzene	A	100.0	99.92	1.202795	1.201846		-0.08	20	
Dichlorodifluoromethane	A	100.0	115.0	0.3200111	0.3679865		15.0	20	
1,1-Dichloroethane	A	100.0	107.1	0.4470751	0.4788631	0.1	7.1	20	
1,2-Dichloroethane	A	100.0	127.9	0.4169138	0.533161		27.9	20	*

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0218CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05303	Injection Date:	02/18/11
Lab Sample ID:	1B05303-CCV1	Injection Time:	08:43

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	107.0	0.1854158	0.1983056		7.0	20
cis-1,2-Dichloroethene	A	100.0	109.2	0.2319594	0.2533065		9.2	20
trans-1,2-Dichloroethene	A	100.0	106.7	0.2207055	0.2354214		6.7	20
1,2-Dichloropropane	A	100.0	100.0	0.2489638	0.2490354		0.03	20
1,3-Dichloropropane	A	100.0	94.62	0.8026791	0.7595119		-5.4	20
2,2-Dichloropropane	A	100.0	121.6	0.3707689	0.4508812		21.6	20 *
1,1-Dichloropropene	A	100.0	114.6	0.3237741	0.3711703		14.6	20
cis-1,3-Dichloropropene	A	100.0	117.0	0.4124454	0.4827691		17.1	20
trans-1,3-Dichloropropene	A	100.0	108.1	0.7158689	0.7740351		8.1	20
Ethylbenzene	A	100.0	94.93	2.007809	1.906019		-5.1	20
Hexachlorobutadiene	A	100.0	124.2	0.2687676	0.333852		24.2	20 *
2-Hexanone	L	200.0	184.0	0.36419	0.3466192		-8.0	20
Isopropylbenzene	A	100.0	104.1	1.566413	1.631191		4.1	20
p-Isopropyltoluene	A	100.0	108.8	1.324729	1.441641		8.8	20
Methylene chloride	A	100.0	103.8	0.2617562	0.2716974		3.8	20
Naphthalene	A	100.0	106.5	1.415562	1.507573		6.5	20
4-Methyl-2-pentanone	L	200.0	209.6	0.2489881	0.2752247		4.8	20
Methyl t-Butyl Ether	A	100.0	116.3	0.5979716	0.6955522		16.3	20
n-Propylbenzene	A	100.0	101.3	2.594076	2.62834		1.3	20
Styrene	A	100.0	100.2	1.204421	1.206793		0.2	20
1,1,2,2-Tetrachloroethane	A	100.0	93.86	0.7277649	0.6830894	0.3	-6.1	20
1,1,1,2-Tetrachloroethane	A	100.0	106.2	0.4510822	0.4788447		6.2	20
Tetrachloroethene	A	100.0	103.0	0.471928	0.4860038		3.0	20
Toluene	A	100.0	91.75	1.049879	0.9632838		-8.2	20
1,2,3-Trichlorobenzene	A	100.0	110.2	0.5841777	0.6436437		10.2	20
1,2,4-Trichlorobenzene	A	100.0	111.8	0.6562098	0.7339838		11.9	20
1,1,2-Trichloroethane	A	100.0	91.12	0.3903573	0.3556876		-8.9	20
1,1,1-Trichloroethane	A	100.0	126.8	0.3663266	0.4646371		26.8	20 *
Trichloroethene	A	100.0	111.1	0.246407	0.2736661		11.1	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0218CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05303	Injection Date:	02/18/11
Lab Sample ID:	1B05303-CCV1	Injection Time:	08:43

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	124.8	0.4122274	0.5144992		24.8	20 *
1,2,3-Trichloropropane	A	100.0	106.0	0.1661066	0.1760576		6.0	20
1,3,5-Trimethylbenzene	A	100.0	106.0	1.696793	1.797822		6.0	20
1,2,4-Trimethylbenzene	A	100.0	107.8	1.726979	1.861939		7.8	20
Vinyl chloride	A	100.0	106.6	0.305846	0.3259876		6.6	20
m,p-Xylene	A	200.0	193.8	1.54219	1.494797		-3.1	20
o-Xylene	A	100.0	97.42	1.656056	1.613382		-2.6	20
Bromofluorobenzene	A	30.00	28.49	0.8788963	0.8345831		-5.0	20
Dibromofluoromethane	A	30.00	30.93	0.3260638	0.3361878		3.1	20
1,2-Dichloroethane-d4	A	30.00	27.13	6.495731E-02	5.875186E-02		-9.6	20
Toluene-d8	A	30.00	25.89	1.870203	1.614228		-13.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0221CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05312	Injection Date:	02/21/11
Lab Sample ID:	1B05312-CCV1	Injection Time:	08:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	200.0	295.8	9.490153E-02	0.1340603		47.9	20 *
Benzene	A	100.0	95.20	0.8446166	0.8040564		-4.8	20
Bromobenzene	A	100.0	102.7	0.6204208	0.6374803		2.7	20
Bromochloromethane	A	100.0	107.8	0.1224323	0.1320493		7.9	20
Bromodichloromethane	A	100.0	111.4	0.3700131	0.4123609		11.4	20
Bromoform	A	100.0	118.1	0.3580188	0.4227115	0.1	18.1	20
Bromomethane	L	100.0	95.48	0.1720739	0.2088706		-4.5	20
n-Butylbenzene	A	100.0	97.02	1.598974	1.55142		-3.0	20
2-Butanone	L	200.0	235.6	0.1122502	0.1437401		17.8	20
sec-Butylbenzene	A	100.0	99.03	2.053309	2.033422		-1.0	20
tert-Butylbenzene	A	100.0	98.21	1.63694	1.607622		-1.8	20
Carbon disulfide	A	100.0	91.13	0.740979	0.6752551		-8.9	20
Carbon tetrachloride	A	100.0	118.5	0.3202351	0.3794937		18.5	20
Chlorobenzene	A	100.0	85.88	1.220943	1.048551	0.3	-14.1	20
Chloroethane	A	100.0	100.2	0.1624884	0.1627745		0.2	20
Chloroform	A	100.0	104.4	0.4766249	0.4976047		4.4	20
Chloromethane	A	100.0	86.94	0.3346068	0.2909137	0.1	-13.1	20
2-Chlorotoluene	A	100.0	95.82	1.714444	1.642773		-4.2	20
4-Chlorotoluene	A	100.0	93.28	1.808579	1.686955		-6.7	20
Dibromochloromethane	A	100.0	102.7	0.5285393	0.5426523		2.7	20
1,2-Dibromo-3-chloropropane	A	100.0	110.2	0.1257405	0.1385852		10.2	20
1,2-Dibromoethane (EDB)	A	100.0	93.19	0.4888881	0.4555766		-6.8	20
Dibromomethane	A	100.0	103.6	0.1899021	0.1967128		3.6	20
1,2-Dichlorobenzene	A	100.0	97.34	1.057762	1.029688		-2.7	20
1,3-Dichlorobenzene	A	100.0	95.79	1.134514	1.086726		-4.2	20
1,4-Dichlorobenzene	A	100.0	96.20	1.202795	1.157078		-3.8	20
Dichlorodifluoromethane	A	100.0	110.0	0.3200111	0.3519459		10.0	20
1,1-Dichloroethane	A	100.0	100.4	0.4470751	0.4490301	0.1	0.4	20
1,2-Dichloroethane	A	100.0	115.8	0.4169138	0.4828448		15.8	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0221CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05312	Injection Date:	02/21/11
Lab Sample ID:	1B05312-CCV1	Injection Time:	08:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	100.0	104.6	0.1854158	0.1939818		4.6	20	
cis-1,2-Dichloroethene	A	100.0	103.6	0.2319594	0.2403412		3.6	20	
trans-1,2-Dichloroethene	A	100.0	99.49	0.2207055	0.2195795		-0.5	20	
1,2-Dichloropropane	A	100.0	93.20	0.2489638	0.2320426		-6.8	20	
1,3-Dichloropropane	A	100.0	85.30	0.8026791	0.6846774		-14.7	20	
2,2-Dichloropropane	A	100.0	112.4	0.3707689	0.4166938		12.4	20	
1,1-Dichloropropene	A	100.0	110.1	0.3237741	0.3565449		10.1	20	
cis-1,3-Dichloropropene	A	100.0	110.1	0.4124454	0.4539878		10.1	20	
trans-1,3-Dichloropropene	A	100.0	100.2	0.7158689	0.7172929		0.2	20	
Ethylbenzene	A	100.0	89.93	2.007809	1.805644		-10.1	20	
Hexachlorobutadiene	A	100.0	118.6	0.2687676	0.3187384		18.6	20	
2-Hexanone	L	200.0	224.3	0.36419	0.4223016		12.2	20	
Isopropylbenzene	A	100.0	96.88	1.566413	1.517542		-3.1	20	
p-Isopropyltoluene	A	100.0	105.4	1.324729	1.396956		5.5	20	
Methylene chloride	A	100.0	97.86	0.2617562	0.2561581		-2.1	20	
Naphthalene	A	100.0	97.20	1.415562	1.37591		-2.8	20	
4-Methyl-2-pentanone	L	200.0	261.4	0.2489881	0.3431904		30.7	20	*
Methyl t-Butyl Ether	A	100.0	111.2	0.5979716	0.6652058		11.2	20	
n-Propylbenzene	A	100.0	96.40	2.594076	2.500695		-3.6	20	
Styrene	A	100.0	96.91	1.204421	1.167191		-3.1	20	
1,1,2,2-Tetrachloroethane	A	100.0	88.58	0.7277649	0.6446809	0.3	-11.4	20	
1,1,1,2-Tetrachloroethane	A	100.0	99.14	0.4510822	0.4472167		-0.9	20	
Tetrachloroethene	A	100.0	95.80	0.471928	0.4520952		-4.2	20	
Toluene	A	100.0	88.17	1.049879	0.9256429		-11.8	20	
1,2,3-Trichlorobenzene	A	100.0	102.1	0.5841777	0.5965241		2.1	20	
1,2,4-Trichlorobenzene	A	100.0	104.3	0.6562098	0.6841938		4.3	20	
1,1,2-Trichloroethane	A	100.0	85.63	0.3903573	0.3342699		-14.4	20	
1,1,1-Trichloroethane	A	100.0	118.1	0.3663266	0.4327068		18.1	20	
Trichloroethene	A	100.0	103.8	0.246407	0.2557131		3.8	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0221CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05312	Injection Date:	02/21/11
Lab Sample ID:	1B05312-CCV1	Injection Time:	08:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	115.6	0.4122274	0.4767259		15.6	20
1,2,3-Trichloropropane	A	100.0	95.08	0.1661066	0.1579267		-4.9	20
1,3,5-Trimethylbenzene	A	100.0	102.3	1.696793	1.735174		2.3	20
1,2,4-Trimethylbenzene	A	100.0	103.7	1.726979	1.791432		3.7	20
Vinyl chloride	A	100.0	101.2	0.305846	0.3095288		1.2	20
m,p-Xylene	A	200.0	177.4	1.54219	1.368204		-11.3	20
o-Xylene	A	100.0	89.58	1.656056	1.483492		-10.4	20
Bromofluorobenzene	A	30.00	29.13	0.8788963	0.8533716		-2.9	20
Dibromofluoromethane	A	30.00	31.04	0.3260638	0.337369		3.5	20
1,2-Dichloroethane-d4	A	30.00	28.56	6.495731E-02	6.184877E-02		-4.8	20
Toluene-d8	A	30.00	27.14	1.870203	1.691807		-9.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0222CCV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B05401	Injection Date:	02/22/11
Lab Sample ID:	1B05401-CCV1	Injection Time:	07:49

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	278.1	6.734143E-02	9.362578E-02		39.0	20 *
Benzene	A	100.0	94.62	0.8877526	0.8400389		-5.4	20
Bromobenzene	A	100.0	94.14	0.658417	0.6198059		-5.9	20
Bromochloromethane	A	100.0	109.2	0.1221319	0.1333285		9.2	20
Bromodichloromethane	A	100.0	129.4	0.2617577	0.3387978		29.4	20 *
Bromoform	L	100.0	117.7	0.2222152	0.384833	0.1	17.7	20
Bromomethane	L	100.0	71.24	0.134767	0.1147507		-28.8	20 *
n-Butylbenzene	A	100.0	93.76	1.373729	1.288091		-6.2	20
2-Butanone	A	200.0	271.2	0.1029735	0.13966		35.6	20 *
sec-Butylbenzene	A	100.0	95.37	1.78503	1.702323		-4.6	20
tert-Butylbenzene	A	100.0	95.77	1.508831	1.444999		-4.2	20
Carbon disulfide	A	100.0	109.2	0.6389933	0.6977578		9.2	20
Carbon tetrachloride	L	100.0	124.8	0.2178602	0.3371886		24.8	20 *
Chlorobenzene	A	100.0	93.53	1.436424	1.34353	0.3	-6.5	20
Chloroethane	A	100.0	115.8	0.1259794	0.1458214		15.8	20
Chloroform	A	100.0	109.8	0.4027485	0.442416		9.8	20
Chloromethane	A	100.0	106.6	0.2467998	0.2631559	0.1	6.6	20
2-Chlorotoluene	A	100.0	95.67	1.557085	1.489628		-4.3	20
4-Chlorotoluene	A	100.0	93.94	1.615142	1.517287		-6.1	20
Dibromochloromethane	L	100.0	111.6	0.3561249	0.5108395		11.6	20
1,2-Dibromo-3-chloropropane	L	100.0	103.1	0.1049106	0.1401517		3.1	20
1,2-Dibromoethane (EDB)	A	100.0	100.2	0.4787408	0.4799108		0.2	20
Dibromomethane	A	100.0	110.5	0.155373	0.1717158		10.5	20
1,2-Dichlorobenzene	A	100.0	96.86	1.083088	1.049142		-3.1	20
1,3-Dichlorobenzene	A	100.0	96.68	1.123795	1.086438		-3.3	20
1,4-Dichlorobenzene	A	100.0	92.74	1.153886	1.070134		-7.3	20
Dichlorodifluoromethane	A	100.0	155.5	0.1736804	0.2701436		55.5	20 *
1,1-Dichloroethane	A	100.0	104.8	0.4157175	0.435485	0.1	4.8	20
1,2-Dichloroethane	A	100.0	117.9	0.3303627	0.3895169		17.9	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0222CCV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B05401	Injection Date:	02/22/11
Lab Sample ID:	1B05401-CCV1	Injection Time:	07:49

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	100.0	105.9	0.1766574	0.1870188		5.9	20	
cis-1,2-Dichloroethene	A	100.0	102.7	0.2378304	0.2443696		2.7	20	
trans-1,2-Dichloroethene	A	100.0	103.1	0.2137549	0.2203234		3.1	20	
1,2-Dichloropropane	A	100.0	98.86	0.2562795	0.2533655		-1.1	20	
1,3-Dichloropropane	A	100.0	95.81	0.7476228	0.7162712		-4.2	20	
2,2-Dichloropropane	A	100.0	115.5	0.3047453	0.3520271		15.5	20	
1,1-Dichloropropene	A	100.0	107.1	0.3077578	0.329501		7.1	20	
cis-1,3-Dichloropropene	A	100.0	110.9	0.3687261	0.4089716		10.9	20	
trans-1,3-Dichloropropene	A	100.0	105.4	0.6343731	0.6685036		5.4	20	
Ethylbenzene	A	100.0	92.63	2.356804	2.183194		-7.4	20	
Hexachlorobutadiene	L	100.0	97.17	0.3096349	0.2882513		-2.8	20	
2-Hexanone	L	200.0	245.5	0.3159287	0.4346281		22.8	20	*
Isopropylbenzene	A	100.0	94.75	1.931811	1.830356		-5.3	20	
p-Isopropyltoluene	A	100.0	96.59	1.341973	1.296232		-3.4	20	
Methylene chloride	A	100.0	99.04	0.2430347	0.2406925		-1.0	20	
Naphthalene	A	100.0	100.0	1.637823	1.638108		0.02	20	
4-Methyl-2-pentanone	A	200.0	294.3	0.2213585	0.3257792		47.2	20	*
Methyl t-Butyl Ether	A	100.0	108.0	0.5783993	0.6247314		8.0	20	
n-Propylbenzene	A	100.0	92.94	2.265422	2.105478		-7.1	20	
Styrene	A	100.0	96.64	1.55917	1.506735		-3.4	20	
1,1,2,2-Tetrachloroethane	A	100.0	89.73	0.5234688	0.4697158	0.3	-10.3	20	
1,1,1,2-Tetrachloroethane	A	100.0	125.6	0.3922633	0.4925561		25.6	20	*
Tetrachloroethene	A	100.0	97.08	0.5803178	0.5633987		-2.9	20	
Toluene	A	100.0	90.44	1.266817	1.145705		-9.6	20	
1,2,3-Trichlorobenzene	A	100.0	97.10	0.6692996	0.6498659		-2.9	20	
1,2,4-Trichlorobenzene	A	100.0	94.76	0.7430317	0.704115		-5.2	20	
1,1,2-Trichloroethane	A	100.0	91.98	0.3774056	0.3471509		-8.0	20	
1,1,1-Trichloroethane	A	100.0	126.2	0.3181209	0.4015783		26.2	20	*
Trichloroethene	A	100.0	108.3	0.2462319	0.2666777		8.3	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA3	Calibration:	1042001
Lab File ID:	0222CCV1.D	Calibration Date:	02/09/11 08:01
Sequence:	1B05401	Injection Date:	02/22/11
Lab Sample ID:	1B05401-CCV1	Injection Time:	07:49

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	120.4	0.3227014	0.3885837		20.4	20 *
1,2,3-Trichloropropane	A	100.0	104.2	0.1759719	0.1834666		4.3	20
1,3,5-Trimethylbenzene	A	100.0	96.58	1.631362	1.575541		-3.4	20
1,2,4-Trimethylbenzene	A	100.0	95.94	1.6879	1.619352		-4.1	20
Vinyl chloride	A	100.0	111.0	0.211655	0.2348667		11.0	20
m,p-Xylene	A	200.0	166.5	1.94475	1.619277		-16.7	20
o-Xylene	A	100.0	89.94	2.049863	1.843699		-10.1	20
Bromofluorobenzene	A	30.00	29.50	0.9432064	0.9274274		-1.7	20
Dibromofluoromethane	A	30.00	32.72	0.2525351	0.2754527		9.1	20
1,2-Dichloroethane-d4	A	30.00	31.34	5.392485E-02	5.634397E-02		4.5	20
Toluene-d8	A	30.00	28.68	2.159642	2.064816		-4.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0223CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05514	Injection Date:	02/23/11
Lab Sample ID:	1B05514-CCV1	Injection Time:	10:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	200.0	315.2	9.490153E-02	0.1428507		57.6	20 *
Benzene	A	100.0	103.1	0.8446166	0.8708361		3.1	20
Bromobenzene	A	100.0	110.6	0.6204208	0.6862117		10.6	20
Bromochloromethane	A	100.0	114.4	0.1224323	0.1401233		14.4	20
Bromodichloromethane	A	100.0	125.0	0.3700131	0.4625762		25.0	20 *
Bromoform	A	100.0	127.4	0.3580188	0.4562788	0.1	27.4	20 *
Bromomethane	L	100.0	105.4	0.1720739	0.2309509		5.4	20
n-Butylbenzene	A	100.0	103.6	1.598974	1.656165		3.6	20
2-Butanone	L	200.0	249.0	0.1122502	0.1519307		24.5	20 *
sec-Butylbenzene	A	100.0	104.3	2.053309	2.141362		4.3	20
tert-Butylbenzene	A	100.0	101.6	1.63694	1.663863		1.6	20
Carbon disulfide	A	100.0	99.75	0.740979	0.7391229		-0.3	20
Carbon tetrachloride	A	100.0	137.2	0.3202351	0.4394784		37.2	20 *
Chlorobenzene	A	100.0	91.80	1.220943	1.120838	0.3	-8.2	20
Chloroethane	A	100.0	110.4	0.1624884	0.1793478		10.4	20
Chloroform	A	100.0	117.1	0.4766249	0.5581259		17.1	20
Chloromethane	A	100.0	96.39	0.3346068	0.3225333	0.1	-3.6	20
2-Chlorotoluene	A	100.0	100.1	1.714444	1.716466		0.1	20
4-Chlorotoluene	A	100.0	104.0	1.808579	1.880041		4.0	20
Dibromochloromethane	A	100.0	111.0	0.5285393	0.5865654		11.0	20
1,2-Dibromo-3-chloropropane	A	100.0	120.9	0.1257405	0.152078		20.9	20 *
1,2-Dibromoethane (EDB)	A	100.0	100.8	0.4888881	0.492802		0.8	20
Dibromomethane	A	100.0	120.0	0.1899021	0.227867		20.0	20
1,2-Dichlorobenzene	A	100.0	107.7	1.057762	1.139432		7.7	20
1,3-Dichlorobenzene	A	100.0	102.4	1.134514	1.162152		2.4	20
1,4-Dichlorobenzene	A	100.0	101.3	1.202795	1.218077		1.3	20
Dichlorodifluoromethane	A	100.0	120.7	0.3200111	0.3862186		20.7	20 *
1,1-Dichloroethane	A	100.0	111.0	0.4470751	0.4961746	0.1	11.0	20
1,2-Dichloroethane	A	100.0	131.5	0.4169138	0.5483371		31.5	20 *

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0223CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05514	Injection Date:	02/23/11
Lab Sample ID:	1B05514-CCV1	Injection Time:	10:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	112.6	0.1854158	0.2088248		12.6	20
cis-1,2-Dichloroethene	A	100.0	114.3	0.2319594	0.2650707		14.3	20
trans-1,2-Dichloroethene	A	100.0	105.7	0.2207055	0.2333589		5.7	20
1,2-Dichloropropane	A	100.0	104.3	0.2489638	0.2597421		4.3	20
1,3-Dichloropropane	A	100.0	95.71	0.8026791	0.7682221		-4.3	20
2,2-Dichloropropane	A	100.0	126.4	0.3707689	0.468589		26.4	20 *
1,1-Dichloropropene	A	100.0	120.6	0.3237741	0.3905036		20.6	20 *
cis-1,3-Dichloropropene	A	100.0	120.4	0.4124454	0.496513		20.4	20 *
trans-1,3-Dichloropropene	A	100.0	106.4	0.7158689	0.7614718		6.4	20
Ethylbenzene	A	100.0	94.53	2.007809	1.89801		-5.5	20
Hexachlorobutadiene	A	100.0	126.3	0.2687676	0.3394563		26.3	20 *
2-Hexanone	L	200.0	238.2	0.36419	0.448425		19.1	20
Isopropylbenzene	A	100.0	101.1	1.566413	1.583225		1.1	20
p-Isopropyltoluene	A	100.0	108.1	1.324729	1.432369		8.1	20
Methylene chloride	A	100.0	109.7	0.2617562	0.2872089		9.7	20
Naphthalene	A	100.0	109.4	1.415562	1.547934		9.4	20
4-Methyl-2-pentanone	L	200.0	283.7	0.2489881	0.3725197		41.8	20 *
Methyl t-Butyl Ether	A	100.0	117.7	0.5979716	0.7036504		17.7	20
n-Propylbenzene	A	100.0	100.8	2.594076	2.613627		0.8	20
Styrene	A	100.0	100.9	1.204421	1.21496		0.9	20
1,1,2,2-Tetrachloroethane	A	100.0	99.02	0.7277649	0.7206363	0.3	-1.0	20
1,1,1,2-Tetrachloroethane	A	100.0	106.9	0.4510822	0.4821809		6.9	20
Tetrachloroethene	A	100.0	101.2	0.471928	0.4776282		1.2	20
Toluene	A	100.0	91.90	1.049879	0.9648584		-8.1	20
1,2,3-Trichlorobenzene	A	100.0	112.6	0.5841777	0.6579152		12.6	20
1,2,4-Trichlorobenzene	A	100.0	112.5	0.6562098	0.7385483		12.5	20
1,1,2-Trichloroethane	A	100.0	89.32	0.3903573	0.3486739		-10.7	20
1,1,1-Trichloroethane	A	100.0	132.3	0.3663266	0.4847122		32.3	20 *
Trichloroethene	A	100.0	113.6	0.246407	0.2798966		13.6	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0223CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05514	Injection Date:	02/23/11
Lab Sample ID:	1B05514-CCV1	Injection Time:	10:28

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	132.8	0.4122274	0.5473539		32.8	20 *
1,2,3-Trichloropropane	A	100.0	103.7	0.1661066	0.1722198		3.7	20
1,3,5-Trimethylbenzene	A	100.0	106.7	1.696793	1.810059		6.7	20
1,2,4-Trimethylbenzene	A	100.0	110.3	1.726979	1.904694		10.3	20
Vinyl chloride	A	100.0	116.6	0.305846	0.3566406		16.6	20
m,p-Xylene	A	200.0	188.5	1.54219	1.453269		-5.8	20
o-Xylene	A	100.0	96.65	1.656056	1.600656		-3.3	20
Bromofluorobenzene	A	30.00	28.36	0.8788963	0.8310194		-5.4	20
Dibromofluoromethane	A	30.00	32.78	0.3260638	0.3562893		9.3	20
1,2-Dichloroethane-d4	A	30.00	30.31	6.495731E-02	6.562113E-02		1.0	20
Toluene-d8	A	30.00	25.75	1.870203	1.605043		-14.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0224CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05611	Injection Date:	02/24/11
Lab Sample ID:	1B05611-CCV1	Injection Time:	06:55

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	200.0	305.2	9.490153E-02	0.1382986		52.6	20 *
Benzene	A	100.0	96.68	0.8446166	0.8165657		-3.3	20
Bromobenzene	A	100.0	101.8	0.6204208	0.6316337		1.8	20
Bromochloromethane	A	100.0	106.5	0.1224323	0.1303548		6.5	20
Bromodichloromethane	A	100.0	113.5	0.3700131	0.4200714		13.5	20
Bromoform	A	100.0	120.6	0.3580188	0.4317291	0.1	20.6	20 *
Bromomethane	L	100.0	99.16	0.1720739	0.2170569		-0.8	20
n-Butylbenzene	A	100.0	98.90	1.598974	1.581407		-1.1	20
2-Butanone	L	200.0	246.4	0.1122502	0.1503625		23.2	20 *
sec-Butylbenzene	A	100.0	101.7	2.053309	2.08812		1.7	20
tert-Butylbenzene	A	100.0	101.4	1.63694	1.660764		1.5	20
Carbon disulfide	A	100.0	92.37	0.740979	0.6844418		-7.6	20
Carbon tetrachloride	A	100.0	126.4	0.3202351	0.404893		26.4	20 *
Chlorobenzene	A	100.0	89.62	1.220943	1.094207	0.3	-10.4	20
Chloroethane	A	100.0	101.1	0.1624884	0.1642885		1.1	20
Chloroform	A	100.0	105.9	0.4766249	0.5046801		5.9	20
Chloromethane	A	100.0	88.39	0.3346068	0.2957754	0.1	-11.6	20
2-Chlorotoluene	A	100.0	95.42	1.714444	1.635917		-4.6	20
4-Chlorotoluene	A	100.0	95.92	1.808579	1.73479		-4.1	20
Dibromochloromethane	A	100.0	106.8	0.5285393	0.5647309		6.8	20
1,2-Dibromo-3-chloropropane	A	100.0	112.2	0.1257405	0.1411		12.2	20
1,2-Dibromoethane (EDB)	A	100.0	98.30	0.4888881	0.4805904		-1.7	20
Dibromomethane	A	100.0	107.9	0.1899021	0.2049193		7.9	20
1,2-Dichlorobenzene	A	100.0	98.90	1.057762	1.04614		-1.1	20
1,3-Dichlorobenzene	A	100.0	96.36	1.134514	1.093278		-3.6	20
1,4-Dichlorobenzene	A	100.0	98.60	1.202795	1.185943		-1.4	20
Dichlorodifluoromethane	A	100.0	116.0	0.3200111	0.3711708		16.0	20
1,1-Dichloroethane	A	100.0	97.63	0.4470751	0.4364857	0.1	-2.4	20
1,2-Dichloroethane	A	100.0	122.7	0.4169138	0.5115831		22.7	20 *

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0224CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05611	Injection Date:	02/24/11
Lab Sample ID:	1B05611-CCV1	Injection Time:	06:55

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	100.0	107.6	0.1854158	0.1995326		7.6	20	
cis-1,2-Dichloroethene	A	100.0	108.3	0.2319594	0.2512238		8.3	20	
trans-1,2-Dichloroethene	A	100.0	101.8	0.2207055	0.2247775		1.8	20	
1,2-Dichloropropane	A	100.0	97.58	0.2489638	0.242949		-2.4	20	
1,3-Dichloropropane	A	100.0	89.01	0.8026791	0.7144528		-11.0	20	
2,2-Dichloropropane	A	100.0	119.6	0.3707689	0.443284		19.6	20	
1,1-Dichloropropene	A	100.0	113.4	0.3237741	0.3672735		13.4	20	
cis-1,3-Dichloropropene	A	100.0	110.3	0.4124454	0.4548248		10.3	20	
trans-1,3-Dichloropropene	A	100.0	101.6	0.7158689	0.7277325		1.7	20	
Ethylbenzene	A	100.0	93.66	2.007809	1.880559		-6.3	20	
Hexachlorobutadiene	A	100.0	122.2	0.2687676	0.3284207		22.2	20	*
2-Hexanone	L	200.0	246.4	0.36419	0.4639489		23.2	20	*
Isopropylbenzene	A	100.0	100.3	1.566413	1.571159		0.3	20	
p-Isopropyltoluene	A	100.0	104.8	1.324729	1.388537		4.8	20	
Methylene chloride	A	100.0	102.1	0.2617562	0.2671951		2.1	20	
Naphthalene	A	100.0	102.2	1.415562	1.446599		2.2	20	
4-Methyl-2-pentanone	L	200.0	271.0	0.2489881	0.3558818		35.5	20	*
Methyl t-Butyl Ether	A	100.0	110.1	0.5979716	0.6583859		10.1	20	
n-Propylbenzene	A	100.0	96.06	2.594076	2.49179		-3.9	20	
Styrene	A	100.0	96.43	1.204421	1.161393		-3.6	20	
1,1,2,2-Tetrachloroethane	A	100.0	90.56	0.7277649	0.6590882	0.3	-9.4	20	
1,1,1,2-Tetrachloroethane	A	100.0	103.7	0.4510822	0.4679955		3.7	20	
Tetrachloroethene	A	100.0	100.3	0.471928	0.4735292		0.3	20	
Toluene	A	100.0	90.76	1.049879	0.9529136		-9.2	20	
1,2,3-Trichlorobenzene	A	100.0	104.2	0.5841777	0.6090461		4.3	20	
1,2,4-Trichlorobenzene	A	100.0	103.9	0.6562098	0.6816909		3.9	20	
1,1,2-Trichloroethane	A	100.0	89.67	0.3903573	0.350026		-10.3	20	
1,1,1-Trichloroethane	A	100.0	121.3	0.3663266	0.4445053		21.3	20	*
Trichloroethene	A	100.0	105.9	0.246407	0.2610543		5.9	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0224CC1.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05611	Injection Date:	02/24/11
Lab Sample ID:	1B05611-CCV1	Injection Time:	06:55

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	127.8	0.4122274	0.5268646		27.8	20 *
1,2,3-Trichloropropane	A	100.0	100.7	0.1661066	0.1672838		0.7	20
1,3,5-Trimethylbenzene	A	100.0	101.7	1.696793	1.726318		1.7	20
1,2,4-Trimethylbenzene	A	100.0	102.6	1.726979	1.77281		2.7	20
Vinyl chloride	A	100.0	108.2	0.305846	0.331025		8.2	20
m,p-Xylene	A	200.0	187.2	1.54219	1.443798		-6.4	20
o-Xylene	A	100.0	95.16	1.656056	1.575943		-4.8	20
Bromofluorobenzene	A	30.00	28.65	0.8788963	0.8393015		-4.5	20
Dibromofluoromethane	A	30.00	31.77	0.3260638	0.3452746		5.9	20
1,2-Dichloroethane-d4	A	30.00	29.80	6.495731E-02	6.453668E-02		-0.6	20
Toluene-d8	A	30.00	27.04	1.870203	1.685496		-9.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0224CC1E.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05612	Injection Date:	02/24/11
Lab Sample ID:	1B05612-CCV1	Injection Time:	19:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	200.0	309.9	9.490153E-02	0.1404714		55.0	20 *
Benzene	A	100.0	103.2	0.8446166	0.8721		3.3	20
Bromobenzene	A	100.0	102.4	0.6204208	0.6351282		2.4	20
Bromochloromethane	A	100.0	109.2	0.1224323	0.133738		9.2	20
Bromodichloromethane	A	100.0	114.0	0.3700131	0.4216329		14.0	20
Bromoform	A	100.0	119.0	0.3580188	0.4262222	0.1	19.1	20
Bromomethane	L	100.0	103.3	0.1720739	0.2263494		3.3	20
n-Butylbenzene	A	100.0	96.48	1.598974	1.542675		-3.5	20
2-Butanone	L	200.0	260.9	0.1122502	0.1592514		30.4	20 *
sec-Butylbenzene	A	100.0	99.71	2.053309	2.047288		-0.3	20
tert-Butylbenzene	A	100.0	98.63	1.63694	1.614573		-1.4	20
Carbon disulfide	A	100.0	96.67	0.740979	0.7162831		-3.3	20
Carbon tetrachloride	A	100.0	126.9	0.3202351	0.4063089		26.9	20 *
Chlorobenzene	A	100.0	90.36	1.220943	1.103267	0.3	-9.6	20
Chloroethane	A	100.0	108.2	0.1624884	0.1757403		8.2	20
Chloroform	A	100.0	110.0	0.4766249	0.5244819		10.0	20
Chloromethane	A	100.0	95.61	0.3346068	0.319914	0.1	-4.4	20
2-Chlorotoluene	A	100.0	94.07	1.714444	1.612717		-5.9	20
4-Chlorotoluene	A	100.0	95.46	1.808579	1.726543		-4.5	20
Dibromochloromethane	A	100.0	106.6	0.5285393	0.5634277		6.6	20
1,2-Dibromo-3-chloropropane	A	100.0	109.5	0.1257405	0.1376379		9.5	20
1,2-Dibromoethane (EDB)	A	100.0	98.35	0.4888881	0.4808034		-1.7	20
Dibromomethane	A	100.0	110.8	0.1899021	0.2104343		10.8	20
1,2-Dichlorobenzene	A	100.0	99.37	1.057762	1.051071		-0.6	20
1,3-Dichlorobenzene	A	100.0	98.92	1.134514	1.122289		-1.1	20
1,4-Dichlorobenzene	A	100.0	93.94	1.202795	1.129889		-6.1	20
Dichlorodifluoromethane	A	100.0	105.6	0.3200111	0.3379094		5.6	20
1,1-Dichloroethane	A	100.0	107.6	0.4470751	0.4810771	0.1	7.6	20
1,2-Dichloroethane	A	100.0	118.3	0.4169138	0.49322		18.3	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0224CC1E.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05612	Injection Date:	02/24/11
Lab Sample ID:	1B05612-CCV1	Injection Time:	19:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	100.0	110.8	0.1854158	0.2054863		10.8	20	
cis-1,2-Dichloroethene	A	100.0	111.9	0.2319594	0.2595942		11.9	20	
trans-1,2-Dichloroethene	A	100.0	105.9	0.2207055	0.2338036		5.9	20	
1,2-Dichloropropane	A	100.0	101.9	0.2489638	0.2536873		1.9	20	
1,3-Dichloropropane	A	100.0	91.21	0.8026791	0.7321617		-8.8	20	
2,2-Dichloropropane	A	100.0	115.3	0.3707689	0.4274119		15.3	20	
1,1-Dichloropropene	A	100.0	115.3	0.3237741	0.373359		15.3	20	
cis-1,3-Dichloropropene	A	100.0	114.8	0.4124454	0.4737151		14.9	20	
trans-1,3-Dichloropropene	A	100.0	101.4	0.7158689	0.7257802		1.4	20	
Ethylbenzene	A	100.0	93.51	2.007809	1.877464		-6.5	20	
Hexachlorobutadiene	A	100.0	121.9	0.2687676	0.3277617		21.9	20	*
2-Hexanone	L	200.0	241.4	0.36419	0.4544813		20.7	20	*
Isopropylbenzene	A	100.0	95.89	1.566413	1.502028		-4.1	20	
p-Isopropyltoluene	A	100.0	104.3	1.324729	1.382186		4.3	20	
Methylene chloride	A	100.0	104.6	0.2617562	0.273865		4.6	20	
Naphthalene	A	100.0	102.8	1.415562	1.454617		2.8	20	
4-Methyl-2-pentanone	L	200.0	282.6	0.2489881	0.3709827		41.3	20	*
Methyl t-Butyl Ether	A	100.0	118.1	0.5979716	0.7064798		18.1	20	
n-Propylbenzene	A	100.0	96.34	2.594076	2.49919		-3.7	20	
Styrene	A	100.0	96.89	1.204421	1.167012		-3.1	20	
1,1,2,2-Tetrachloroethane	A	100.0	93.44	0.7277649	0.6799902	0.3	-6.6	20	
1,1,1,2-Tetrachloroethane	A	100.0	100.9	0.4510822	0.4551032		0.9	20	
Tetrachloroethene	A	100.0	101.9	0.471928	0.48086		1.9	20	
Toluene	A	100.0	91.47	1.049879	0.9603492		-8.5	20	
1,2,3-Trichlorobenzene	A	100.0	105.7	0.5841777	0.6175225		5.7	20	
1,2,4-Trichlorobenzene	A	100.0	105.2	0.6562098	0.6902299		5.2	20	
1,1,2-Trichloroethane	A	100.0	91.43	0.3903573	0.3569044		-8.6	20	
1,1,1-Trichloroethane	A	100.0	122.2	0.3663266	0.4476627		22.2	20	*
Trichloroethene	A	100.0	108.4	0.246407	0.2669834		8.4	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0224CC1E.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05612	Injection Date:	02/24/11
Lab Sample ID:	1B05612-CCV1	Injection Time:	19:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	120.7	0.4122274	0.4974031		20.7	20 *
1,2,3-Trichloropropane	A	100.0	101.4	0.1661066	0.1684455		1.4	20
1,3,5-Trimethylbenzene	A	100.0	99.33	1.696793	1.685414		-0.7	20
1,2,4-Trimethylbenzene	A	100.0	101.8	1.726979	1.758064		1.8	20
Vinyl chloride	A	100.0	112.5	0.305846	0.3440009		12.5	20
m,p-Xylene	A	200.0	178.8	1.54219	1.379077		-10.6	20
o-Xylene	A	100.0	92.03	1.656056	1.524124		-8.0	20
Bromofluorobenzene	A	30.00	28.02	0.8788963	0.8209962		-6.6	20
Dibromofluoromethane	A	30.00	32.91	0.3260638	0.3576512		9.7	20
1,2-Dichloroethane-d4	A	30.00	28.77	6.495731E-02	6.229288E-02		-4.1	20
Toluene-d8	A	30.00	26.95	1.870203	1.680189		-10.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B17009-BLK1 File ID: 0217BL1E.D

Sampled: Prepared: Analyzed: 02/17/11 23:03

Solids: Preparation: 5030B Dilution:

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	3.62	2.50	5.00	10.0	J
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Q, X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.741	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B17009-BLK1 File ID: 0217BL1E.D

Sampled: Prepared: Analyzed: 02/17/11 23:03

Solids: Preparation: 5030B Dilution:

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	Q, X, U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.00	103	75 - 120	
Dibromofluoromethane	30.00	31.09	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.19	101	70 - 120	
Toluene-d8	30.00	29.52	98.4	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B17009-BS1 File ID: 0217LS1E.D

Sampled: Prepared: Analyzed: 02/17/11 21:37

Solids: Preparation: 5030B Dilution:

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	110	2.50	5.00	10.0	B
71-43-2	Benzene	52.9	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.9	0.250	0.500	1.00	
74-97-5	Bromochloromethane	55.2	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	66.8	0.250	0.500	1.00	X
75-25-2	Bromoform	58.0	0.250	0.500	1.00	
74-83-9	Bromomethane	24.8	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	52.2	0.250	0.500	1.00	
78-93-3	2-Butanone	98.1	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	54.0	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	54.2	0.250	0.500	1.00	
75-15-0	Carbon disulfide	60.1	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	61.9	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	53.7	0.250	0.500	1.00	
75-00-3	Chloroethane	57.6	0.500	1.00	2.00	
67-66-3	Chloroform	55.4	0.250	0.500	1.00	
74-87-3	Chloromethane	52.5	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	53.3	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	54.2	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	59.5	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	51.3	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	55.1	0.250	0.500	1.00	
74-95-3	Dibromomethane	56.8	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.3	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	52.2	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.3	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	83.6	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	54.7	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	58.6	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	60.4	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	52.7	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	54.6	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	52.4	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	52.0	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	47.2	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	56.3	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	51.7	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	60.1	0.250	0.500	1.00	
100-41-4	Ethylbenzene	52.9	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	55.2	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B17009-BS1 File ID: 0217LS1E.D

Sampled: Prepared: Analyzed: 02/17/11 21:37

Solids: Preparation: 5030B Dilution:

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	95.5	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	57.2	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.7	0.250	0.500	1.00	
75-09-2	Methylene chloride	51.9	0.500	1.00	2.00	
91-20-3	Naphthalene	52.6	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	109	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	108	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	54.9	0.250	0.500	1.00	
100-42-5	Styrene	54.7	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	51.0	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	66.4	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	53.8	0.250	0.500	1.00	
108-88-3	Toluene	51.2	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	49.3	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	48.8	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	52.4	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	61.0	0.250	0.500	1.00	X
79-01-6	Trichloroethene	56.3	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	66.8	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	57.8	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	53.1	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	53.7	0.250	0.500	1.00	
75-01-4	Vinyl chloride	59.9	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	99.6	0.500	1.00	2.00	
95-47-6	o-Xylene	51.1	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.32	101	75 - 120	
Dibromofluoromethane	30.00	31.07	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.54	102	70 - 120	
Toluene-d8	30.00	29.93	99.8	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B17009-BSD1 File ID: 0217LCSDE.D

Sampled: Prepared: Analyzed: 02/18/11 07:29

Solids: Preparation: 5030B Dilution:

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	121	2.50	5.00	10.0	B
71-43-2	Benzene	51.9	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.5	0.250	0.500	1.00	
74-97-5	Bromochloromethane	55.7	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	65.4	0.250	0.500	1.00	X
75-25-2	Bromoform	55.0	0.250	0.500	1.00	
74-83-9	Bromomethane	20.4	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	51.2	0.250	0.500	1.00	
78-93-3	2-Butanone	102	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	52.8	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	53.5	0.250	0.500	1.00	
75-15-0	Carbon disulfide	57.8	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	57.5	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	53.9	0.250	0.500	1.00	
75-00-3	Chloroethane	56.2	0.500	1.00	2.00	
67-66-3	Chloroform	55.7	0.250	0.500	1.00	
74-87-3	Chloromethane	53.0	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	52.8	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	53.6	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	56.2	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	47.6	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	55.0	0.250	0.500	1.00	
74-95-3	Dibromomethane	57.9	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.9	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	53.5	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	49.8	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	74.5	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	55.0	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	61.1	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	56.8	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	52.0	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	54.1	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	52.0	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	53.4	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	36.0	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	54.9	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	48.8	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	56.6	0.250	0.500	1.00	
100-41-4	Ethylbenzene	54.7	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	48.0	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B17009-BSD1 File ID: 0217LCSDE.D

Sampled: Prepared: Analyzed: 02/18/11 07:29

Solids: Preparation: 5030B Dilution:

Batch: 1B17009 Sequence: 1B05006 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	108	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	57.7	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.2	0.250	0.500	1.00	
75-09-2	Methylene chloride	52.8	0.500	1.00	2.00	
91-20-3	Naphthalene	51.0	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	121	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	106	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	54.3	0.250	0.500	1.00	
100-42-5	Styrene	56.6	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.9	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	65.7	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	52.8	0.250	0.500	1.00	
108-88-3	Toluene	51.2	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	48.2	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	47.3	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.6	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	60.0	0.250	0.500	1.00	X
79-01-6	Trichloroethene	56.7	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	58.7	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	56.2	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	53.6	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	54.2	0.250	0.500	1.00	
75-01-4	Vinyl chloride	56.5	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	100	0.500	1.00	2.00	
95-47-6	o-Xylene	52.5	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.88	103	75 - 120	
Dibromofluoromethane	30.00	30.99	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.53	102	70 - 120	
Toluene-d8	30.00	29.39	98.0	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B18011-BLK1 File ID: 0218BL1.D

Sampled: Prepared: Analyzed: 02/18/11 10:53

Solids: Preparation: 5030B Dilution:

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, U
75-25-2	Bromoform		0.250	0.500	1.00	Q, X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	Q, X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B18011-BLK1 File ID: 0218BL1.D

Sampled: Prepared: Analyzed: 02/18/11 10:53

Solids: Preparation: 5030B Dilution:

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.48	105	75 - 120	
Dibromofluoromethane	30.00	32.85	110	85 - 115	
1,2-Dichloroethane-d4	30.00	29.55	98.5	70 - 120	
Toluene-d8	30.00	28.59	95.3	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B18011-BS1 File ID: 0218LS1.D

Sampled: Prepared: Analyzed: 02/18/11 09:25

Solids: Preparation: 5030B Dilution:

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	112	2.50	5.00	10.0	
71-43-2	Benzene	52.4	0.250	0.500	1.00	
108-86-1	Bromobenzene	55.0	0.250	0.500	1.00	
74-97-5	Bromochloromethane	58.9	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	61.7	0.250	0.500	1.00	
75-25-2	Bromoform	65.3	0.250	0.500	1.00	X
74-83-9	Bromomethane	55.5	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	50.7	0.250	0.500	1.00	
78-93-3	2-Butanone	98.6	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	52.3	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	55.0	0.250	0.500	1.00	
75-15-0	Carbon disulfide	51.7	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	61.6	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	50.6	0.250	0.500	1.00	
75-00-3	Chloroethane	56.6	0.500	1.00	2.00	
67-66-3	Chloroform	56.3	0.250	0.500	1.00	
74-87-3	Chloromethane	54.8	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	51.8	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	51.9	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	60.8	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	57.3	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	54.7	0.250	0.500	1.00	
74-95-3	Dibromomethane	57.4	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.9	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.9	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.6	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	60.2	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	56.2	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	64.0	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	59.7	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	56.5	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	54.8	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.6	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	50.7	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	57.9	0.250	0.500	1.00	X
563-58-6	1,1-Dichloropropene	59.7	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	55.4	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	63.1	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.2	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	62.4	0.250	0.500	1.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B18011-BS1 File ID: 0218LS1.D

Sampled: Prepared: Analyzed: 02/18/11 09:25

Solids: Preparation: 5030B Dilution:

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	94.8	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	58.2	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	55.6	0.250	0.500	1.00	
75-09-2	Methylene chloride	56.2	0.500	1.00	2.00	
91-20-3	Naphthalene	52.7	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	104	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	121	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	52.0	0.250	0.500	1.00	
100-42-5	Styrene	55.7	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.1	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	57.1	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	56.4	0.250	0.500	1.00	
108-88-3	Toluene	51.6	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	52.3	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	52.7	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	49.6	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	60.4	0.250	0.500	1.00	X
79-01-6	Trichloroethene	55.3	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	59.7	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	55.2	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	54.2	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	54.6	0.250	0.500	1.00	
75-01-4	Vinyl chloride	54.4	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	107	0.500	1.00	2.00	
95-47-6	o-Xylene	52.7	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.36	101	75 - 120	
Dibromofluoromethane	30.00	31.88	106	85 - 115	
1,2-Dichloroethane-d4	30.00	30.35	101	70 - 120	
Toluene-d8	30.00	28.60	95.3	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B18011-BSD1 File ID: 0218LD1.D

Sampled: Prepared: Analyzed: 02/18/11 20:27

Solids: Preparation: 5030B Dilution:

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	116	2.50	5.00	10.0	
71-43-2	Benzene	54.2	0.250	0.500	1.00	
108-86-1	Bromobenzene	55.0	0.250	0.500	1.00	
74-97-5	Bromochloromethane	58.5	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	63.4	0.250	0.500	1.00	
75-25-2	Bromoform	64.1	0.250	0.500	1.00	X
74-83-9	Bromomethane	53.9	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	50.6	0.250	0.500	1.00	
78-93-3	2-Butanone	94.0	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	49.0	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	52.1	0.250	0.500	1.00	
75-15-0	Carbon disulfide	52.3	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	63.8	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	50.1	0.250	0.500	1.00	
75-00-3	Chloroethane	57.8	0.500	1.00	2.00	
67-66-3	Chloroform	58.1	0.250	0.500	1.00	
74-87-3	Chloromethane	56.3	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	49.5	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	53.0	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	60.6	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	51.7	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	53.6	0.250	0.500	1.00	
74-95-3	Dibromomethane	59.1	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.8	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	52.1	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	49.5	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	63.9	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	56.6	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	65.6	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	61.7	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	55.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	53.4	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	54.0	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	50.0	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	51.0	0.250	0.500	1.00	X
563-58-6	1,1-Dichloropropene	58.6	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	56.6	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	59.9	0.250	0.500	1.00	
100-41-4	Ethylbenzene	51.3	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	55.6	0.250	0.500	1.00	X

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B18011-BSD1 File ID: 0218LD1.D

Sampled: Prepared: Analyzed: 02/18/11 20:27

Solids: Preparation: 5030B Dilution:

Batch: 1B18011 Sequence: 1B05303 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	95.6	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	59.2	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	54.8	0.250	0.500	1.00	
75-09-2	Methylene chloride	56.5	0.500	1.00	2.00	
91-20-3	Naphthalene	48.2	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	108	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	118	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	50.5	0.250	0.500	1.00	
100-42-5	Styrene	55.2	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	47.6	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	55.8	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	54.5	0.250	0.500	1.00	
108-88-3	Toluene	50.1	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	47.7	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	50.6	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	49.0	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	60.6	0.250	0.500	1.00	X
79-01-6	Trichloroethene	57.9	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	61.5	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	52.4	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	54.7	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	54.6	0.250	0.500	1.00	
75-01-4	Vinyl chloride	56.6	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	105	0.500	1.00	2.00	
95-47-6	o-Xylene	52.2	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.28	101	75 - 120	
Dibromofluoromethane	30.00	32.71	109	85 - 115	
1,2-Dichloroethane-d4	30.00	30.63	102	70 - 120	
Toluene-d8	30.00	28.11	93.7	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B19002-BLK1 File ID: 0219BL1.D

Sampled: Prepared: Analyzed: 02/19/11 13:35

Solids: Preparation: 5030B Dilution:

Batch: 1B19002 Sequence: 1B05201 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Q, X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.751	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B19002-BLK1 File ID: 0219BL1.D

Sampled: Prepared: Analyzed: 02/19/11 13:35

Solids: Preparation: 5030B Dilution:

Batch: 1B19002 Sequence: 1B05201 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	Q, X, U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.46	105	75 - 120	
Dibromofluoromethane	30.00	31.93	106	85 - 115	
1,2-Dichloroethane-d4	30.00	31.54	105	70 - 120	
Toluene-d8	30.00	30.46	102	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B19002-BS1 File ID: 0219LS1.D

Sampled: Prepared: Analyzed: 02/19/11 12:08

Solids: Preparation: 5030B Dilution:

Batch: 1B19002 Sequence: 1B05201 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	116	2.50	5.00	10.0	X
71-43-2	Benzene	52.2	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.6	0.250	0.500	1.00	
74-97-5	Bromochloromethane	56.1	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	69.8	0.250	0.500	1.00	X
75-25-2	Bromoform	60.8	0.250	0.500	1.00	
74-83-9	Bromomethane	27.4	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	52.0	0.250	0.500	1.00	
78-93-3	2-Butanone	96.7	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	52.8	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	54.4	0.250	0.500	1.00	
75-15-0	Carbon disulfide	58.9	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	64.4	0.250	0.500	1.00	
108-90-7	Chlorobenzene	53.4	0.250	0.500	1.00	
75-00-3	Chloroethane	60.8	0.500	1.00	2.00	
67-66-3	Chloroform	56.2	0.250	0.500	1.00	
74-87-3	Chloromethane	55.6	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	51.0	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	53.2	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	61.3	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	53.5	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	54.6	0.250	0.500	1.00	
74-95-3	Dibromomethane	57.6	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	54.2	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	52.6	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.7	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	95.1	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	54.5	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	61.4	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	59.1	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	52.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	54.7	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	53.7	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	52.4	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	57.1	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	56.4	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	56.0	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	61.8	0.250	0.500	1.00	
100-41-4	Ethylbenzene	52.7	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	54.5	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B19002-BS1 File ID: 0219LS1.D

Sampled: Prepared: Analyzed: 02/19/11 12:08

Solids: Preparation: 5030B Dilution:

Batch: 1B19002 Sequence: 1B05201 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	95.2	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	56.7	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.4	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.3	0.500	1.00	2.00	
91-20-3	Naphthalene	51.8	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	115	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	112	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	53.2	0.250	0.500	1.00	
100-42-5	Styrene	55.2	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.5	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	66.7	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	51.9	0.250	0.500	1.00	
108-88-3	Toluene	49.6	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	48.4	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	48.4	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	51.0	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	63.2	0.250	0.500	1.00	
79-01-6	Trichloroethene	57.2	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	67.3	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	55.9	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.5	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	53.8	0.250	0.500	1.00	
75-01-4	Vinyl chloride	61.3	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	97.3	0.500	1.00	2.00	
95-47-6	o-Xylene	50.5	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.87	99.6	75 - 120	
Dibromofluoromethane	30.00	31.22	104	85 - 115	
1,2-Dichloroethane-d4	30.00	31.13	104	70 - 120	
Toluene-d8	30.00	28.74	95.8	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B21012-BLK1 File ID: 0221BL1.D

Sampled: Prepared: Analyzed: 02/21/11 10:33

Solids: Preparation: 5030B Dilution:

Batch: 1B21012 Sequence: 1B05312 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Q, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.301	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B21012-BLK1 File ID: 0221BL1.D

Sampled: Prepared: Analyzed: 02/21/11 10:33

Solids: Preparation: 5030B Dilution:

Batch: 1B21012 Sequence: 1B05312 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.12	97.1	75 - 120	
Dibromofluoromethane	30.00	32.58	109	85 - 115	
1,2-Dichloroethane-d4	30.00	31.17	104	70 - 120	
Toluene-d8	30.00	29.86	99.5	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B21012-BS1 File ID: 0221LS1.D

Sampled: Prepared: Analyzed: 02/21/11 09:05

Solids: Preparation: 5030B Dilution:

Batch: 1B21012 Sequence: 1B05312 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	118	2.50	5.00	10.0	X
71-43-2	Benzene	52.7	0.250	0.500	1.00	
108-86-1	Bromobenzene	55.0	0.250	0.500	1.00	
74-97-5	Bromochloromethane	55.1	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	58.2	0.250	0.500	1.00	
75-25-2	Bromoform	62.5	0.250	0.500	1.00	
74-83-9	Bromomethane	52.6	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	52.9	0.250	0.500	1.00	
78-93-3	2-Butanone	101	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	52.3	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	54.1	0.250	0.500	1.00	
75-15-0	Carbon disulfide	51.1	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	59.9	0.250	0.500	1.00	
108-90-7	Chlorobenzene	50.1	0.250	0.500	1.00	
75-00-3	Chloroethane	55.6	0.500	1.00	2.00	
67-66-3	Chloroform	54.8	0.250	0.500	1.00	
74-87-3	Chloromethane	53.3	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	53.5	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	52.1	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	58.2	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	56.0	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	51.5	0.250	0.500	1.00	
74-95-3	Dibromomethane	53.7	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.8	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	52.2	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.5	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	61.6	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	54.8	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	58.7	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	59.2	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	54.8	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	55.8	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	50.7	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	49.8	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	51.6	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	58.0	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	53.0	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	60.3	0.250	0.500	1.00	
100-41-4	Ethylbenzene	51.9	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	63.4	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B21012-BS1 File ID: 0221LS1.D

Sampled: Prepared: Analyzed: 02/21/11 09:05

Solids: Preparation: 5030B Dilution:

Batch: 1B21012 Sequence: 1B05312 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	101	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	58.0	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	55.8	0.250	0.500	1.00	
75-09-2	Methylene chloride	52.9	0.500	1.00	2.00	
91-20-3	Naphthalene	51.4	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	105	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	106	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	53.1	0.250	0.500	1.00	
100-42-5	Styrene	54.5	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.0	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	56.0	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	54.7	0.250	0.500	1.00	
108-88-3	Toluene	49.4	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	53.4	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	54.5	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	49.4	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	57.9	0.250	0.500	1.00	
79-01-6	Trichloroethene	54.0	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	57.1	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	52.8	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	55.4	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	55.2	0.250	0.500	1.00	
75-01-4	Vinyl chloride	54.3	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	103	0.500	1.00	2.00	
95-47-6	o-Xylene	52.5	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.03	96.8	75 - 120	
Dibromofluoromethane	30.00	31.05	103	85 - 115	
1,2-Dichloroethane-d4	30.00	29.61	98.7	70 - 120	
Toluene-d8	30.00	28.24	94.1	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B21012-BSD1 File ID: 0221LD1.D

Sampled: Prepared: Analyzed: 02/21/11 20:12

Solids: Preparation: 5030B Dilution:

Batch: 1B21012 Sequence: 1B05312 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	122	2.50	5.00	10.0	X
71-43-2	Benzene	46.4	0.250	0.500	1.00	
108-86-1	Bromobenzene	48.1	0.250	0.500	1.00	
74-97-5	Bromochloromethane	50.7	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	56.4	0.250	0.500	1.00	
75-25-2	Bromoform	60.5	0.250	0.500	1.00	
74-83-9	Bromomethane	38.6	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	45.3	0.250	0.500	1.00	
78-93-3	2-Butanone	101	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	46.1	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	48.3	0.250	0.500	1.00	
75-15-0	Carbon disulfide	45.8	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	57.4	0.250	0.500	1.00	
108-90-7	Chlorobenzene	45.0	0.250	0.500	1.00	
75-00-3	Chloroethane	49.2	0.500	1.00	2.00	
67-66-3	Chloroform	51.1	0.250	0.500	1.00	
74-87-3	Chloromethane	43.8	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	45.0	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	46.2	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	54.0	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	46.4	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	49.4	0.250	0.500	1.00	
74-95-3	Dibromomethane	51.6	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	46.7	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	46.6	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	45.1	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	59.3	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	49.1	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	58.6	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	53.9	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	49.4	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	47.2	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	45.3	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	45.3	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	48.2	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	51.7	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	48.3	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	53.4	0.250	0.500	1.00	
100-41-4	Ethylbenzene	48.2	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	50.8	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B21012-BSD1 File ID: 0221LD1.D

Sampled: Prepared: Analyzed: 02/21/11 20:12

Solids: Preparation: 5030B Dilution:

Batch: 1B21012 Sequence: 1B05312 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	104	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	55.6	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	49.0	0.250	0.500	1.00	
75-09-2	Methylene chloride	46.9	0.500	1.00	2.00	
91-20-3	Naphthalene	43.2	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	112	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	101	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	46.6	0.250	0.500	1.00	
100-42-5	Styrene	49.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	43.5	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	52.7	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	48.9	0.250	0.500	1.00	
108-88-3	Toluene	44.1	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	43.5	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	43.4	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	44.1	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	55.2	0.250	0.500	1.00	
79-01-6	Trichloroethene	48.9	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	57.5	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	52.3	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	48.6	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	49.2	0.250	0.500	1.00	
75-01-4	Vinyl chloride	48.1	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	99.2	0.500	1.00	2.00	
95-47-6	o-Xylene	49.8	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.34	101	75 - 120	
Dibromofluoromethane	30.00	31.97	107	85 - 115	
1,2-Dichloroethane-d4	30.00	29.87	99.6	70 - 120	
Toluene-d8	30.00	28.31	94.4	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B22009-BLK1 File ID: 0222BL1.D

Sampled: Prepared: Analyzed: 02/22/11 09:45

Solids: Preparation: 5030B Dilution:

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, X, U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	Y, U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Q, X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.786	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B22009-BLK1 File ID: 0222BL1.D

Sampled: Prepared: Analyzed: 02/22/11 09:45

Solids: Preparation: 5030B Dilution:

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	Q, X, U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.03	103	75 - 120	
Dibromofluoromethane	30.00	31.27	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.87	103	70 - 120	
Toluene-d8	30.00	29.12	97.1	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B22009-BS1 File ID: 0222LS1.D

Sampled: Prepared: Analyzed: 02/22/11 08:19

Solids: Preparation: 5030B Dilution:

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	123	2.50	5.00	10.0	X
71-43-2	Benzene	52.2	0.250	0.500	1.00	
108-86-1	Bromobenzene	53.5	0.250	0.500	1.00	
74-97-5	Bromochloromethane	54.8	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	68.8	0.250	0.500	1.00	X
75-25-2	Bromoform	61.7	0.250	0.500	1.00	
74-83-9	Bromomethane	31.8	0.500	1.00	2.00	Y
104-51-8	n-Butylbenzene	53.3	0.250	0.500	1.00	
78-93-3	2-Butanone	110	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	53.9	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	55.4	0.250	0.500	1.00	
75-15-0	Carbon disulfide	59.0	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	64.3	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	53.1	0.250	0.500	1.00	
75-00-3	Chloroethane	61.9	0.500	1.00	2.00	
67-66-3	Chloroform	57.2	0.250	0.500	1.00	
74-87-3	Chloromethane	58.6	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	54.0	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	54.5	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	61.4	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	51.4	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	54.7	0.250	0.500	1.00	
74-95-3	Dibromomethane	58.4	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	54.3	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	54.9	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.8	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	86.5	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	55.3	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	60.9	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	58.0	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	54.3	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	55.8	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	53.3	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	52.5	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	57.8	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	57.0	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	55.1	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	62.2	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.1	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	56.4	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B22009-BS1 File ID: 0222LS1.D

Sampled: Prepared: Analyzed: 02/22/11 08:19

Solids: Preparation: 5030B Dilution:

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	106	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	57.2	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.8	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.0	0.500	1.00	2.00	
91-20-3	Naphthalene	52.4	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	124	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	108	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	54.6	0.250	0.500	1.00	
100-42-5	Styrene	54.4	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.9	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	66.9	0.250	0.500	1.00	X
127-18-4	Tetrachloroethene	53.0	0.250	0.500	1.00	
108-88-3	Toluene	50.5	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	50.4	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	50.1	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	51.0	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	63.7	0.250	0.500	1.00	X
79-01-6	Trichloroethene	57.6	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	64.5	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	57.7	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	54.6	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	55.1	0.250	0.500	1.00	
75-01-4	Vinyl chloride	63.1	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	99.7	0.500	1.00	2.00	
95-47-6	o-Xylene	52.0	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.66	98.9	75 - 120	
Dibromofluoromethane	30.00	31.53	105	85 - 115	
1,2-Dichloroethane-d4	30.00	31.07	104	70 - 120	
Toluene-d8	30.00	28.33	94.4	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B22009-MS1 File ID: 0216601M.D

Sampled: Prepared: Analyzed: 02/22/11 18:12

Solids: Preparation: 5030B Dilution:

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	13200	250	500	1000	X, D
71-43-2	Benzene	9360	25.0	50.0	100	D
108-86-1	Bromobenzene	5250	25.0	50.0	100	D
74-97-5	Bromochloromethane	5830	25.0	50.0	100	D
75-27-4	Bromodichloromethane	7250	25.0	50.0	100	Q, X, D
75-25-2	Bromoform	5790	25.0	50.0	100	D
74-83-9	Bromomethane	3050	50.0	100	200	Y, D
104-51-8	n-Butylbenzene	5240	25.0	50.0	100	D
78-93-3	2-Butanone	10200	250	500	1000	X, D
135-98-8	sec-Butylbenzene	5340	25.0	50.0	100	D
98-06-6	tert-Butylbenzene	5640	25.0	50.0	100	D
75-15-0	Carbon disulfide	6060	25.0	50.0	100	D
56-23-5	Carbon tetrachloride	6680	25.0	50.0	100	X, D
108-90-7	Chlorobenzene	5290	25.0	50.0	100	D
75-00-3	Chloroethane	5900	50.0	100	200	D
67-66-3	Chloroform	6060	25.0	50.0	100	D
74-87-3	Chloromethane	5810	25.0	50.0	100	D
95-49-8	2-Chlorotoluene	5290	25.0	50.0	100	D
106-43-4	4-Chlorotoluene	5400	25.0	50.0	100	D
124-48-1	Dibromochloromethane	5910	25.0	50.0	100	D
96-12-8	1,2-Dibromo-3-chloropropane	4810	50.0	100	200	D
106-93-4	1,2-Dibromoethane (EDB)	5540	25.0	50.0	100	D
74-95-3	Dibromomethane	6020	25.0	50.0	100	D
95-50-1	1,2-Dichlorobenzene	5390	25.0	50.0	100	D
541-73-1	1,3-Dichlorobenzene	5130	25.0	50.0	100	D
106-46-7	1,4-Dichlorobenzene	5470	25.0	50.0	100	D
75-71-8	Dichlorodifluoromethane	9240	50.0	100	200	Q, X, D
75-34-3	1,1-Dichloroethane	5780	25.0	50.0	100	D
107-06-2	1,2-Dichloroethane	6570	25.0	50.0	100	D
75-35-4	1,1-Dichloroethene	6010	25.0	50.0	100	D
156-59-2	cis-1,2-Dichloroethene	5390	25.0	50.0	100	D
156-60-5	trans-1,2-Dichloroethene	5570	25.0	50.0	100	D
78-87-5	1,2-Dichloropropane	5360	25.0	50.0	100	D
142-28-9	1,3-Dichloropropane	5110	25.0	50.0	100	D
594-20-7	2,2-Dichloropropane	5400	25.0	50.0	100	D
563-58-6	1,1-Dichloropropene	5890	25.0	50.0	100	D
10061-01-5	cis-1,3-Dichloropropene	5470	25.0	50.0	100	D
10061-02-6	trans-1,3-Dichloropropene	5870	25.0	50.0	100	D
100-41-4	Ethylbenzene	6240	25.0	50.0	100	D
87-68-3	Hexachlorobutadiene	4980	25.0	50.0	100	D, B

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B22009-MS1 File ID: 0216601M.D

Sampled: Prepared: Analyzed: 02/22/11 18:12

Solids: Preparation: 5030B Dilution:

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	9360	125	250	500	X, D
98-82-8	Isopropylbenzene	5960	25.0	50.0	100	D
99-87-6	p-Isopropyltoluene	5450	25.0	50.0	100	D
75-09-2	Methylene chloride	5490	50.0	100	200	D
91-20-3	Naphthalene	4990	25.0	50.0	100	D
108-10-1	4-Methyl-2-pentanone	11500	125	250	500	X, D
1634-04-4	Methyl t-Butyl Ether	11000	25.0	50.0	100	D
103-65-1	n-Propylbenzene	5510	25.0	50.0	100	D
100-42-5	Styrene	5450	25.0	50.0	100	D
79-34-5	1,1,2,2-Tetrachloroethane	4730	25.0	50.0	100	D
630-20-6	1,1,1,2-Tetrachloroethane	6720	25.0	50.0	100	Q, X, D
127-18-4	Tetrachloroethene	5310	25.0	50.0	100	D
108-88-3	Toluene	11600	25.0	50.0	100	D
87-61-6	1,2,3-Trichlorobenzene	4760	25.0	50.0	100	D
120-82-1	1,2,4-Trichlorobenzene	4850	25.0	50.0	100	D
79-00-5	1,1,2-Trichloroethane	4990	25.0	50.0	100	D
71-55-6	1,1,1-Trichloroethane	6660	25.0	50.0	100	X, D
79-01-6	Trichloroethene	6050	25.0	50.0	100	D
75-69-4	Trichlorofluoromethane	7310	50.0	100	200	X, D
96-18-4	1,2,3-Trichloropropane	5690	50.0	100	200	D
108-67-8	1,3,5-Trimethylbenzene	5490	25.0	50.0	100	D
95-63-6	1,2,4-Trimethylbenzene	5780	25.0	50.0	100	D
75-01-4	Vinyl chloride	6050	25.0	50.0	100	D
108-38-3/106-42-	m,p-Xylene	11400	50.0	100	200	D
95-47-6	o-Xylene	5800	25.0	50.0	100	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.79	99.3	75 - 120	
Dibromofluoromethane	30.00	31.68	106	85 - 115	
1,2-Dichloroethane-d4	30.00	30.26	101	70 - 120	
Toluene-d8	30.00	27.82	92.7	85 - 120	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B22009-MSD1 File ID: 0216601S.D

Sampled: Prepared: Analyzed: 02/22/11 18:42

Solids: Preparation: 5030B Dilution:

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	13700	250	500	1000	X, D
71-43-2	Benzene	8410	25.0	50.0	100	D
108-86-1	Bromobenzene	4680	25.0	50.0	100	D
74-97-5	Bromochloromethane	5090	25.0	50.0	100	D
75-27-4	Bromodichloromethane	6430	25.0	50.0	100	Q, X, D
75-25-2	Bromoform	5470	25.0	50.0	100	D
74-83-9	Bromomethane	2800	50.0	100	200	Y, D
104-51-8	n-Butylbenzene	4650	25.0	50.0	100	D
78-93-3	2-Butanone	10500	250	500	1000	X, D
135-98-8	sec-Butylbenzene	4690	25.0	50.0	100	D
98-06-6	tert-Butylbenzene	4970	25.0	50.0	100	D
75-15-0	Carbon disulfide	5340	25.0	50.0	100	D
56-23-5	Carbon tetrachloride	5930	25.0	50.0	100	X, D
108-90-7	Chlorobenzene	4800	25.0	50.0	100	D
75-00-3	Chloroethane	5270	50.0	100	200	D
67-66-3	Chloroform	5360	25.0	50.0	100	D
74-87-3	Chloromethane	5280	25.0	50.0	100	D
95-49-8	2-Chlorotoluene	4670	25.0	50.0	100	D
106-43-4	4-Chlorotoluene	4840	25.0	50.0	100	D
124-48-1	Dibromochloromethane	5550	25.0	50.0	100	D
96-12-8	1,2-Dibromo-3-chloropropane	4670	50.0	100	200	D
106-93-4	1,2-Dibromoethane (EDB)	5260	25.0	50.0	100	D
74-95-3	Dibromomethane	5390	25.0	50.0	100	D
95-50-1	1,2-Dichlorobenzene	4730	25.0	50.0	100	D
541-73-1	1,3-Dichlorobenzene	4560	25.0	50.0	100	D
106-46-7	1,4-Dichlorobenzene	4890	25.0	50.0	100	D
75-71-8	Dichlorodifluoromethane	8740	50.0	100	200	Q, X, D
75-34-3	1,1-Dichloroethane	5050	25.0	50.0	100	D
107-06-2	1,2-Dichloroethane	5840	25.0	50.0	100	D
75-35-4	1,1-Dichloroethene	5380	25.0	50.0	100	D
156-59-2	cis-1,2-Dichloroethene	4870	25.0	50.0	100	D
156-60-5	trans-1,2-Dichloroethene	5070	25.0	50.0	100	D
78-87-5	1,2-Dichloropropane	4750	25.0	50.0	100	D
142-28-9	1,3-Dichloropropane	4780	25.0	50.0	100	D
594-20-7	2,2-Dichloropropane	4680	25.0	50.0	100	D
563-58-6	1,1-Dichloropropene	5220	25.0	50.0	100	D
10061-01-5	cis-1,3-Dichloropropene	4890	25.0	50.0	100	D
10061-02-6	trans-1,3-Dichloropropene	5480	25.0	50.0	100	D
100-41-4	Ethylbenzene	5650	25.0	50.0	100	D
87-68-3	Hexachlorobutadiene	4650	25.0	50.0	100	D, B

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B22009-MSD1 File ID: 0216601S.D

Sampled: Prepared: Analyzed: 02/22/11 18:42

Solids: Preparation: 5030B Dilution:

Batch: 1B22009 Sequence: 1B05401 Calibration: 1042001 Instrument: MS-VOA3

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	9870	125	250	500	X, D
98-82-8	Isopropylbenzene	5340	25.0	50.0	100	D
99-87-6	p-Isopropyltoluene	4790	25.0	50.0	100	D
75-09-2	Methylene chloride	4830	50.0	100	200	D
91-20-3	Naphthalene	4640	25.0	50.0	100	D
108-10-1	4-Methyl-2-pentanone	12000	125	250	500	X, D
1634-04-4	Methyl t-Butyl Ether	10100	25.0	50.0	100	D
103-65-1	n-Propylbenzene	4860	25.0	50.0	100	D
100-42-5	Styrene	5120	25.0	50.0	100	D
79-34-5	1,1,2,2-Tetrachloroethane	4530	25.0	50.0	100	D
630-20-6	1,1,1,2-Tetrachloroethane	6100	25.0	50.0	100	Q, X, D
127-18-4	Tetrachloroethene	4730	25.0	50.0	100	D
108-88-3	Toluene	10900	25.0	50.0	100	D
87-61-6	1,2,3-Trichlorobenzene	4390	25.0	50.0	100	D
120-82-1	1,2,4-Trichlorobenzene	4260	25.0	50.0	100	D
79-00-5	1,1,2-Trichloroethane	4700	25.0	50.0	100	D
71-55-6	1,1,1-Trichloroethane	5830	25.0	50.0	100	X, D
79-01-6	Trichloroethene	5220	25.0	50.0	100	D
75-69-4	Trichlorofluoromethane	6270	50.0	100	200	X, D
96-18-4	1,2,3-Trichloropropane	5470	50.0	100	200	D
108-67-8	1,3,5-Trimethylbenzene	4820	25.0	50.0	100	D
95-63-6	1,2,4-Trimethylbenzene	4990	25.0	50.0	100	D
75-01-4	Vinyl chloride	5670	25.0	50.0	100	D
108-38-3/106-42-	m,p-Xylene	10300	50.0	100	200	D
95-47-6	o-Xylene	5350	25.0	50.0	100	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.56	102	75 - 120	
Dibromofluoromethane	30.00	32.11	107	85 - 115	
1,2-Dichloroethane-d4	30.00	29.74	99.1	70 - 120	
Toluene-d8	30.00	29.06	96.9	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B23016-BLK1 File ID: 0223BL1.D

Sampled: Prepared: Analyzed: 02/23/11 12:57

Solids: Preparation: 5030B Dilution:

Batch: 1B23016 Sequence: 1B05514 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	Q, X, U
75-25-2	Bromoform		0.250	0.500	1.00	Q, X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	X, U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	Q, X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	X, U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	X, U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	X, U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B23016-BLK1 File ID: 0223BL1.D

Sampled: Prepared: Analyzed: 02/23/11 12:57

Solids: Preparation: 5030B Dilution:

Batch: 1B23016 Sequence: 1B05514 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.87	103	75 - 120	
Dibromofluoromethane	30.00	32.94	110	85 - 115	
1,2-Dichloroethane-d4	30.00	31.53	105	70 - 120	
Toluene-d8	30.00	29.06	96.9	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B23016-BS1 File ID: 0223LS1.D

Sampled: Prepared: Analyzed: 02/23/11 10:59

Solids: Preparation: 5030B Dilution:

Batch: 1B23016 Sequence: 1B05514 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	115	2.50	5.00	10.0	X
71-43-2	Benzene	51.0	0.250	0.500	1.00	
108-86-1	Bromobenzene	54.4	0.250	0.500	1.00	
74-97-5	Bromochloromethane	58.5	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	59.9	0.250	0.500	1.00	X
75-25-2	Bromoform	64.4	0.250	0.500	1.00	X
74-83-9	Bromomethane	54.1	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	49.0	0.250	0.500	1.00	
78-93-3	2-Butanone	89.4	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	50.7	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	51.7	0.250	0.500	1.00	
75-15-0	Carbon disulfide	50.5	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	60.4	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	50.3	0.250	0.500	1.00	
75-00-3	Chloroethane	53.7	0.500	1.00	2.00	
67-66-3	Chloroform	56.2	0.250	0.500	1.00	
74-87-3	Chloromethane	52.4	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	49.6	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	51.1	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	60.2	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	56.6	0.500	1.00	2.00	X
106-93-4	1,2-Dibromoethane (EDB)	53.8	0.250	0.500	1.00	
74-95-3	Dibromomethane	58.4	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.1	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	51.2	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.2	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	58.3	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	54.7	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	62.2	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	58.7	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	54.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	55.2	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.8	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	51.0	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	55.6	0.250	0.500	1.00	X
563-58-6	1,1-Dichloropropene	57.7	0.250	0.500	1.00	X
10061-01-5	cis-1,3-Dichloropropene	54.9	0.250	0.500	1.00	X
10061-02-6	trans-1,3-Dichloropropene	62.2	0.250	0.500	1.00	
100-41-4	Ethylbenzene	50.9	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	59.9	0.250	0.500	1.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B23016-BS1 File ID: 0223LS1.D

Sampled: Prepared: Analyzed: 02/23/11 10:59

Solids: Preparation: 5030B Dilution:

Batch: 1B23016 Sequence: 1B05514 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	93.9	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	56.5	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.0	0.250	0.500	1.00	
75-09-2	Methylene chloride	53.6	0.500	1.00	2.00	
91-20-3	Naphthalene	51.0	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	100	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	116	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	50.6	0.250	0.500	1.00	
100-42-5	Styrene	54.1	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.0	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	56.2	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	53.5	0.250	0.500	1.00	
108-88-3	Toluene	49.6	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	52.2	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	52.2	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.3	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	58.8	0.250	0.500	1.00	X
79-01-6	Trichloroethene	54.9	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	60.3	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	52.4	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	53.5	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	53.0	0.250	0.500	1.00	
75-01-4	Vinyl chloride	54.3	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	105	0.500	1.00	2.00	
95-47-6	o-Xylene	52.0	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	28.49	95.0	75 - 120	
Dibromofluoromethane	30.00	32.84	109	85 - 115	
1,2-Dichloroethane-d4	30.00	30.66	102	70 - 120	
Toluene-d8	30.00	28.05	93.5	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B23016-BSD1 File ID: 0223LD1.D

Sampled: Prepared: Analyzed: 02/23/11 22:01

Solids: Preparation: 5030B Dilution:

Batch: 1B23016 Sequence: 1B05514 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	118	2.50	5.00	10.0	X
71-43-2	Benzene	52.1	0.250	0.500	1.00	
108-86-1	Bromobenzene	55.5	0.250	0.500	1.00	
74-97-5	Bromochloromethane	58.8	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	63.6	0.250	0.500	1.00	X
75-25-2	Bromoform	68.5	0.250	0.500	1.00	X
74-83-9	Bromomethane	47.6	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	48.9	0.250	0.500	1.00	
78-93-3	2-Butanone	92.5	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	50.9	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	51.7	0.250	0.500	1.00	
75-15-0	Carbon disulfide	48.2	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	61.1	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	49.5	0.250	0.500	1.00	
75-00-3	Chloroethane	51.0	0.500	1.00	2.00	
67-66-3	Chloroform	57.5	0.250	0.500	1.00	
74-87-3	Chloromethane	48.1	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	51.7	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	51.5	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	62.3	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	56.8	0.500	1.00	2.00	X
106-93-4	1,2-Dibromoethane (EDB)	55.8	0.250	0.500	1.00	
74-95-3	Dibromomethane	59.2	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.5	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	52.3	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	51.5	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	55.2	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	53.3	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	67.3	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	55.6	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	55.3	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	51.8	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.9	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	51.3	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	47.2	0.250	0.500	1.00	X
563-58-6	1,1-Dichloropropene	56.0	0.250	0.500	1.00	X
10061-01-5	cis-1,3-Dichloropropene	55.1	0.250	0.500	1.00	X
10061-02-6	trans-1,3-Dichloropropene	62.1	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.0	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	54.7	0.250	0.500	1.00	X

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B23016-BSD1 File ID: 0223LD1.D

Sampled: Prepared: Analyzed: 02/23/11 22:01

Solids: Preparation: 5030B Dilution:

Batch: 1B23016 Sequence: 1B05514 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	98.3	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	59.8	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	53.9	0.250	0.500	1.00	
75-09-2	Methylene chloride	54.8	0.500	1.00	2.00	
91-20-3	Naphthalene	51.6	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	105	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	117	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	51.2	0.250	0.500	1.00	
100-42-5	Styrene	55.0	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	50.7	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	58.6	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	51.0	0.250	0.500	1.00	
108-88-3	Toluene	48.3	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	49.2	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	50.6	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.7	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	60.6	0.250	0.500	1.00	X
79-01-6	Trichloroethene	55.3	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	58.6	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	57.2	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	53.4	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	55.9	0.250	0.500	1.00	
75-01-4	Vinyl chloride	51.4	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	105	0.500	1.00	2.00	
95-47-6	o-Xylene	54.2	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.63	105	75 - 120	
Dibromofluoromethane	30.00	32.31	108	85 - 115	
1,2-Dichloroethane-d4	30.00	30.86	103	70 - 120	
Toluene-d8	30.00	27.87	92.9	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24002-BLK1 File ID: 0224BL1.D

Sampled: Prepared: Analyzed: 02/24/11 08:54

Solids: Preparation: 5030B Dilution:

Batch: 1B24002 Sequence: 1B05611 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	X, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	X, U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	X, U

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24002-BLK1 File ID: 0224BL1.D

Sampled: Prepared: Analyzed: 02/24/11 08:54

Solids: Preparation: 5030B Dilution:

Batch: 1B24002 Sequence: 1B05611 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.57	102	75 - 120	
Dibromofluoromethane	30.00	33.27	111	85 - 115	
1,2-Dichloroethane-d4	30.00	30.17	101	70 - 120	
Toluene-d8	30.00	30.04	100	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24002-BS1 File ID: 0224LS1.D

Sampled: Prepared: Analyzed: 02/24/11 07:25

Solids: Preparation: 5030B Dilution:

Batch: 1B24002 Sequence: 1B05611 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	116	2.50	5.00	10.0	X
71-43-2	Benzene	51.6	0.250	0.500	1.00	
108-86-1	Bromobenzene	54.4	0.250	0.500	1.00	
74-97-5	Bromochloromethane	57.1	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	59.5	0.250	0.500	1.00	
75-25-2	Bromoform	61.7	0.250	0.500	1.00	X
74-83-9	Bromomethane	54.4	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	52.2	0.250	0.500	1.00	
78-93-3	2-Butanone	99.2	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	53.3	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	54.4	0.250	0.500	1.00	
75-15-0	Carbon disulfide	51.7	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	60.8	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	50.2	0.250	0.500	1.00	
75-00-3	Chloroethane	53.7	0.500	1.00	2.00	
67-66-3	Chloroform	55.3	0.250	0.500	1.00	
74-87-3	Chloromethane	52.9	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	51.5	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	51.4	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	57.6	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	53.1	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	52.9	0.250	0.500	1.00	
74-95-3	Dibromomethane	54.2	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.7	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	52.2	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.9	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	58.4	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	54.8	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	58.9	0.250	0.500	1.00	X
75-35-4	1,1-Dichloroethene	60.4	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	55.0	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	54.2	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	49.4	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	48.7	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	58.6	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	57.7	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	52.2	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	61.9	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.0	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	63.8	0.250	0.500	1.00	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24002-BS1 File ID: 0224LS1.D

Sampled: Prepared: Analyzed: 02/24/11 07:25

Solids: Preparation: 5030B Dilution:

Batch: 1B24002 Sequence: 1B05611 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	102	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	58.8	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	55.1	0.250	0.500	1.00	
75-09-2	Methylene chloride	48.8	0.500	1.00	2.00	
91-20-3	Naphthalene	49.9	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	104	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	109	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	52.9	0.250	0.500	1.00	
100-42-5	Styrene	55.4	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	47.6	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	57.2	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	55.8	0.250	0.500	1.00	
108-88-3	Toluene	51.4	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	51.7	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	53.0	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	46.7	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	58.9	0.250	0.500	1.00	X
79-01-6	Trichloroethene	55.9	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	60.1	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	51.8	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	55.0	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	56.1	0.250	0.500	1.00	
75-01-4	Vinyl chloride	55.3	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	105	0.500	1.00	2.00	
95-47-6	o-Xylene	51.2	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.76	99.2	75 - 120	
Dibromofluoromethane	30.00	31.27	104	85 - 115	
1,2-Dichloroethane-d4	30.00	30.98	103	70 - 120	
Toluene-d8	30.00	29.42	98.1	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24021-BLK1 File ID: 0224BL1E.D

Sampled: Prepared: Analyzed: 02/24/11 21:28

Solids: Preparation: 5030B Dilution:

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	Q, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	Q, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Q, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Q, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.317	0.250	0.500	1.00	X, J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24021-BLK1 File ID: 0224BL1E.D

Sampled: Prepared: Analyzed: 02/24/11 21:28

Solids: Preparation: 5030B Dilution:

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	Q, U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.26	101	75 - 120	
Dibromofluoromethane	30.00	32.69	109	85 - 115	
1,2-Dichloroethane-d4	30.00	29.56	98.5	70 - 120	
Toluene-d8	30.00	29.91	99.7	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24021-BS1 File ID: 0224LS1E.D

Sampled: Prepared: Analyzed: 02/24/11 20:00

Solids: Preparation: 5030B Dilution:

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	121	2.50	5.00	10.0	X
71-43-2	Benzene	47.3	0.250	0.500	1.00	
108-86-1	Bromobenzene	54.0	0.250	0.500	1.00	
74-97-5	Bromochloromethane	51.3	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	58.1	0.250	0.500	1.00	
75-25-2	Bromoform	66.5	0.250	0.500	1.00	
74-83-9	Bromomethane	24.3	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	51.0	0.250	0.500	1.00	
78-93-3	2-Butanone	103	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	52.5	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	54.3	0.250	0.500	1.00	
75-15-0	Carbon disulfide	28.6	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	53.8	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	50.5	0.250	0.500	1.00	
75-00-3	Chloroethane	28.2	0.500	1.00	2.00	
67-66-3	Chloroform	51.3	0.250	0.500	1.00	
74-87-3	Chloromethane	10.5	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	50.3	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	49.3	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	59.4	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	56.9	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	53.8	0.250	0.500	1.00	
74-95-3	Dibromomethane	52.6	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.7	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	49.8	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	52.8	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	2.55	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	48.5	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	54.5	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	42.1	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	48.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	46.1	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	49.2	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	50.5	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	47.9	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	51.6	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	51.2	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	60.4	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.7	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	62.7	0.250	0.500	1.00	X, B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24021-BS1 File ID: 0224LS1E.D

Sampled: Prepared: Analyzed: 02/24/11 20:00

Solids: Preparation: 5030B Dilution:

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	109	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	59.9	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	54.1	0.250	0.500	1.00	
75-09-2	Methylene chloride	45.8	0.500	1.00	2.00	
91-20-3	Naphthalene	53.2	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	111	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	97.6	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	49.0	0.250	0.500	1.00	
100-42-5	Styrene	55.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.8	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	56.7	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	53.6	0.250	0.500	1.00	
108-88-3	Toluene	48.9	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	52.1	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	53.0	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.4	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	53.0	0.250	0.500	1.00	X
79-01-6	Trichloroethene	51.8	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	31.8	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	54.9	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.7	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	53.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride	15.6	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	104	0.500	1.00	2.00	
95-47-6	o-Xylene	53.1	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.29	97.6	75 - 120	
Dibromofluoromethane	30.00	31.42	105	85 - 115	
1,2-Dichloroethane-d4	30.00	30.37	101	70 - 120	
Toluene-d8	30.00	28.89	96.3	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24021-BSD1 File ID: 0224LD1E.D

Sampled: Prepared: Analyzed: 02/25/11 02:30

Solids: Preparation: 5030B Dilution:

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	115	2.50	5.00	10.0	X
71-43-2	Benzene	45.3	0.250	0.500	1.00	
108-86-1	Bromobenzene	55.2	0.250	0.500	1.00	
74-97-5	Bromochloromethane	51.1	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	56.4	0.250	0.500	1.00	
75-25-2	Bromoform	65.9	0.250	0.500	1.00	
74-83-9	Bromomethane	20.2	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	51.4	0.250	0.500	1.00	
78-93-3	2-Butanone	100	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	53.3	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	53.4	0.250	0.500	1.00	
75-15-0	Carbon disulfide	26.7	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	51.2	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	48.5	0.250	0.500	1.00	
75-00-3	Chloroethane	24.1	0.500	1.00	2.00	
67-66-3	Chloroform	49.6	0.250	0.500	1.00	
74-87-3	Chloromethane	9.52	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	49.9	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	45.0	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	58.7	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	55.3	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	53.9	0.250	0.500	1.00	
74-95-3	Dibromomethane	50.8	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.9	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	55.0	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	48.0	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	2.20	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	46.5	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	54.7	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	38.5	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	47.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	43.2	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	46.9	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	49.2	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	39.5	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	49.4	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	49.5	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	58.2	0.250	0.500	1.00	
100-41-4	Ethylbenzene	51.8	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	58.2	0.250	0.500	1.00	X, B

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24021-BSD1 File ID: 0224LD1E.D

Sampled: Prepared: Analyzed: 02/25/11 02:30

Solids: Preparation: 5030B Dilution:

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	103	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	59.3	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	54.6	0.250	0.500	1.00	
75-09-2	Methylene chloride	43.5	0.500	1.00	2.00	
91-20-3	Naphthalene	51.4	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	107	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	96.5	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	51.5	0.250	0.500	1.00	
100-42-5	Styrene	54.6	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	50.4	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	55.9	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	51.7	0.250	0.500	1.00	
108-88-3	Toluene	48.5	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	51.4	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	53.0	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.5	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	50.2	0.250	0.500	1.00	X
79-01-6	Trichloroethene	49.1	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	30.8	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	55.9	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	54.0	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	55.0	0.250	0.500	1.00	
75-01-4	Vinyl chloride	14.3	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	103	0.500	1.00	2.00	
95-47-6	o-Xylene	52.0	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.81	103	75 - 120	
Dibromofluoromethane	30.00	30.75	102	85 - 115	
1,2-Dichloroethane-d4	30.00	28.48	94.9	70 - 120	
Toluene-d8	30.00	29.43	98.1	85 - 120	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0019	02/14/11 16:45	02/15/11 08:45	02/19/11 00:00	N/A	14.00	02/19/11 15:04	4.89	14.00	
GW0020	02/14/11 16:45	02/15/11 08:45	02/17/11 11:15	N/A	14.00	02/18/11 06:00	3.51	14.00	
GW0021	02/14/11 11:17	02/15/11 08:45	02/17/11 11:15	N/A	14.00	02/18/11 06:30	3.76	14.00	
GW8013-TB	02/14/11 08:00	02/15/11 08:45	02/17/11 11:15	N/A	14.00	02/18/11 00:33	3.69	14.00	
GW0022	02/15/11 13:59	02/16/11 08:30	02/18/11 00:00	N/A	14.00	02/18/11 15:56	3.08	14.00	
GW8002-AB	02/15/11 10:30	02/16/11 08:30	02/18/11 00:00	N/A	14.00	02/18/11 12:54	3.10	14.00	
GW8002-RB	02/15/11 14:50	02/16/11 08:30	02/18/11 00:00	N/A	14.00	02/18/11 12:24	2.90	14.00	
GW8014-TB	02/15/11 08:00	02/16/11 08:30	02/18/11 00:00	N/A	14.00	02/18/11 11:23	3.14	14.00	
GW0011	02/16/11 10:45	02/17/11 08:45	02/22/11 00:00	N/A	14.00	02/22/11 16:43	6.21	14.00	
GW0031	02/16/11 15:05	02/17/11 08:45	02/22/11 00:00	N/A	14.00	02/22/11 17:12	6.05	14.00	
GW8015-TB	02/16/11 08:00	02/17/11 08:45	02/21/11 00:00	N/A	14.00	02/21/11 11:07	5.09	14.00	
GW0010	02/17/11 14:56	02/18/11 08:45	02/24/11 00:00	N/A	14.00	02/24/11 23:59	7.34	14.00	
GW0015	02/17/11 11:10	02/18/11 08:45	02/24/11 00:00	N/A	14.00	02/25/11 00:29	7.51	14.00	
GW0036	02/17/11 10:18	02/18/11 08:45	02/24/11 00:00	N/A	14.00	02/24/11 22:28	7.47	14.00	
GW0037	02/17/11 10:50	02/18/11 08:45	02/24/11 00:00	N/A	14.00	02/24/11 22:59	7.46	14.00	
GW0038	02/17/11 10:50	02/18/11 08:45	02/24/11 00:00	N/A	14.00	02/24/11 23:29	7.49	14.00	
GW8016-TB	02/17/11 08:00	02/18/11 08:45	02/23/11 00:00	N/A	14.00	02/23/11 13:27	6.23	14.00	
GW0009	02/18/11 13:06	02/19/11 09:30	02/24/11 00:00	N/A	14.00	02/24/11 16:28	6.10	14.00	
GW8017-TB	02/18/11 08:00	02/19/11 09:30	02/24/11 00:00	N/A	14.00	02/24/11 09:24	6.06	14.00	

Data for SW8270C (PAH) Forms

ANALYSIS DATA SHEET

GW0039-R

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102141-02 File ID: 0214102.D

Sampled: 02/15/11 10:30 Prepared: 02/18/11 14:18 Analyzed: 02/24/11 23:39

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 1B18006 Sequence: 1B05614 Calibration: 1048001 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0467	0.0935	0.187	U
208-96-8	Acenaphthylene		0.0467	0.0935	0.187	U
120-12-7	Anthracene		0.0467	0.0935	0.187	U
56-55-3	Benzo(a)anthracene		0.0467	0.0935	0.187	X, U
50-32-8	Benzo(a)pyrene		0.0467	0.0935	0.187	U
205-99-2	Benzo(b)fluoranthene		0.0467	0.0935	0.187	U
191-24-2	Benzo(g,h,i)perylene		0.0467	0.0935	0.187	U
207-08-9	Benzo(k)fluoranthene		0.0467	0.0935	0.187	U
218-01-9	Chrysene		0.0467	0.0935	0.187	X, U
53-70-3	Dibenz(a,h)anthracene	0.248	0.0467	0.0935	0.187	
206-44-0	Fluoranthene		0.0467	0.0935	0.187	U
86-73-7	Fluorene		0.0467	0.0935	0.187	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0467	0.0935	0.187	U
90-12-0	1-Methylnaphthalene	0.0472	0.0467	0.0935	0.187	J, B
91-57-6	2-Methylnaphthalene	0.0763	0.0467	0.0935	0.187	J, B
91-20-3	Naphthalene	0.0751	0.0467	0.0935	0.187	J, B
85-01-8	Phenanthrene		0.0467	0.0935	0.187	U
129-00-0	Pyrene		0.0467	0.0935	0.187	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.73	48.07	103	34 - 167	
Terphenyl-d14	46.73	42.02	89.9	34 - 167	X

ANALYSIS DATA SHEET

GW0036

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102174-05 File ID: 0217405.D

Sampled: 02/17/11 10:18 Prepared: 02/25/11 16:45 Analyzed: 03/04/11 18:05

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 1B25030 Sequence: 1C06708 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0472	0.0943	0.189	H2, U
208-96-8	Acenaphthylene		0.0472	0.0943	0.189	H2, U
120-12-7	Anthracene		0.0472	0.0943	0.189	H2, U
56-55-3	Benzo(a)anthracene		0.0472	0.0943	0.189	H2, U
50-32-8	Benzo(a)pyrene		0.0472	0.0943	0.189	H2, U
205-99-2	Benzo(b)fluoranthene		0.0472	0.0943	0.189	H2, U
191-24-2	Benzo(g,h,i)perylene		0.0472	0.0943	0.189	H2, U
207-08-9	Benzo(k)fluoranthene		0.0472	0.0943	0.189	H2, U
218-01-9	Chrysene		0.0472	0.0943	0.189	H2, U
53-70-3	Dibenz(a,h)anthracene		0.0472	0.0943	0.189	H2, U
206-44-0	Fluoranthene		0.0472	0.0943	0.189	H2, U
86-73-7	Fluorene		0.0472	0.0943	0.189	H2, U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0472	0.0943	0.189	H2, U
90-12-0	1-Methylnaphthalene		0.0472	0.0943	0.189	H2, U
91-57-6	2-Methylnaphthalene		0.0472	0.0943	0.189	H2, U
91-20-3	Naphthalene		0.0472	0.0943	0.189	H2, U
85-01-8	Phenanthrene		0.0472	0.0943	0.189	H2, U
129-00-0	Pyrene		0.0472	0.0943	0.189	H2, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	29.17	61.9	34 - 167	H2
Terphenyl-d14	47.17	19.70	41.8	34 - 167	H2

ANALYSIS DATA SHEET

GW0037

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102174-07 File ID: 0217407.D

Sampled: 02/17/11 10:50 Prepared: 02/25/11 16:45 Analyzed: 03/04/11 18:33

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 1B25030 Sequence: 1C06708 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0467	0.0935	0.187	H2, U
208-96-8	Acenaphthylene		0.0467	0.0935	0.187	H2, U
120-12-7	Anthracene		0.0467	0.0935	0.187	H2, U
56-55-3	Benzo(a)anthracene		0.0467	0.0935	0.187	H2, U
50-32-8	Benzo(a)pyrene		0.0467	0.0935	0.187	H2, U
205-99-2	Benzo(b)fluoranthene		0.0467	0.0935	0.187	H2, U
191-24-2	Benzo(g,h,i)perylene		0.0467	0.0935	0.187	H2, U
207-08-9	Benzo(k)fluoranthene		0.0467	0.0935	0.187	H2, U
218-01-9	Chrysene		0.0467	0.0935	0.187	H2, U
53-70-3	Dibenz(a,h)anthracene		0.0467	0.0935	0.187	H2, U
206-44-0	Fluoranthene		0.0467	0.0935	0.187	H2, U
86-73-7	Fluorene		0.0467	0.0935	0.187	H2, U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0467	0.0935	0.187	H2, U
90-12-0	1-Methylnaphthalene		0.0467	0.0935	0.187	H2, U
91-57-6	2-Methylnaphthalene		0.0467	0.0935	0.187	H2, U
91-20-3	Naphthalene		0.0467	0.0935	0.187	H2, U
85-01-8	Phenanthrene		0.0467	0.0935	0.187	H2, U
129-00-0	Pyrene		0.0467	0.0935	0.187	H2, U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	46.73	29.47	63.1	34 - 167	H2
Terphenyl-d14	46.73	20.90	44.7	34 - 167	H2

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05614
Instrument: MS-BNA4
Calibration: 1048001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05614-CCV1) ug/mL				Lab File ID: SEQ-CCV2.D		Analyzed: 02/24/11 20:12		
2-Fluorobiphenyl	5.000	97.6	80 - 120	7.812	7.812	0.0000	+/-0.500	
Terphenyl-d14	5.000	125	80 - 120	12.46	12.46	0.0000	+/-0.500	*
LCS (1B18006-BS1) ug/L				Lab File ID: B18006L1.D		Analyzed: 02/24/11 21:55		
2-Fluorobiphenyl	50.00	83.4	34 - 167	7.812	7.812	0.0000	+/-0.500	
Terphenyl-d14	50.00	100	34 - 167	12.46	12.46	0.0000	+/-0.500	
LCS Dup (1B18006-BSD1) ug/L				Lab File ID: B18006L2.D		Analyzed: 02/24/11 22:21		
2-Fluorobiphenyl	50.00	78.0	34 - 167	7.812	7.812	0.0000	+/-0.500	
Terphenyl-d14	50.00	92.8	34 - 167	12.46	12.46	0.0000	+/-0.500	
GW0039-R (1102141-02) ug/L				Lab File ID: 0214102.D		Analyzed: 02/24/11 23:39		
2-Fluorobiphenyl	46.73	103	34 - 167	7.812	7.812	0.0000	+/-0.500	
Terphenyl-d14	46.73	89.9	34 - 167	12.46	12.46	0.0000	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05615
Instrument: MS-BNA4
Calibration: 1048001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05615-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 02/25/11 12:30		
2-Fluorobiphenyl	5.000	97.4	80 - 120	7.812	7.812	0.0000	+/-0.500	
Terphenyl-d14	5.000	126	80 - 120	12.46	12.46	0.0000	+/-0.500	*
Blank (1B18006-BLK1) ug/L				Lab File ID: B1806B1R.D		Analyzed: 02/25/11 13:46		
2-Fluorobiphenyl	50.00	72.2	34 - 167	7.812	7.812	0.0000	+/-0.500	
Terphenyl-d14	50.00	104	34 - 167	12.46	12.46	0.0000	+/-0.500	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C06708
Instrument: MS-BNA4
Calibration: 1061004

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C06708-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 03/04/11 15:30		
2-Fluorobiphenyl	5.000	110	80 - 120	8.736	8.736	0.0000	+/-0.500	
Terphenyl-d14	5.000	111	80 - 120	13.365	13.365	0.0000	+/-0.500	
Blank (1B25030-BLK1) ug/L				Lab File ID: B25030B1.D		Analyzed: 03/04/11 16:44		
2-Fluorobiphenyl	50.00	69.2	34 - 167	8.736	8.736	0.0000	+/-0.500	
Terphenyl-d14	50.00	72.3	34 - 167	13.375	13.365	0.0100	+/-0.500	
LCS (1B25030-BS1) ug/L				Lab File ID: B25030L1.D		Analyzed: 03/04/11 17:11		
2-Fluorobiphenyl	50.00	76.6	34 - 167	8.736	8.736	0.0000	+/-0.500	
Terphenyl-d14	50.00	64.2	34 - 167	13.375	13.365	0.0100	+/-0.500	
LCS Dup (1B25030-BSD1) ug/L				Lab File ID: B25030L2.D		Analyzed: 03/04/11 17:38		
2-Fluorobiphenyl	50.00	86.5	34 - 167	8.736	8.736	0.0000	+/-0.500	
Terphenyl-d14	50.00	65.9	34 - 167	13.375	13.365	0.0100	+/-0.500	
GW0036 (1102174-05) ug/L				Lab File ID: 0217405.D		Analyzed: 03/04/11 18:05		
2-Fluorobiphenyl	47.17	61.9	34 - 167	8.736	8.736	0.0000	+/-0.500	
Terphenyl-d14	47.17	41.8	34 - 167	13.375	13.365	0.0100	+/-0.500	
GW0037 (1102174-07) ug/L				Lab File ID: 0217407.D		Analyzed: 03/04/11 18:33		
2-Fluorobiphenyl	46.73	63.1	34 - 167	8.736	8.736	0.0000	+/-0.500	
Terphenyl-d14	46.73	44.7	34 - 167	13.375	13.365	0.0100	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B18006	Laboratory ID:	1B18006-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acenaphthene	1.000	0.9122	91.2	41 - 132
Acenaphthylene	1.000	0.8374	83.7	43 - 140
Anthracene	1.000	0.8838	88.4	50 - 139
Benzo(a)anthracene	1.000	1.119	112	58 - 141
Benzo(a)pyrene	1.000	0.8489	84.9	31 - 142
Benzo(b)fluoranthene	1.000	0.9064	90.6	42 - 156
Benzo(g,h,i)perylene	1.000	0.9120	91.2	12 - 171
Benzo(k)fluoranthene	1.000	0.9773	97.7	49 - 165
Chrysene	1.000	1.078	108	51 - 155
Dibenz(a,h)anthracene	1.000	0.8882	88.8	28 - 153
Fluoranthene	1.000	1.050	105	47 - 158
Fluorene	1.000	0.9115	91.2	40 - 140
Indeno(1,2,3-cd)pyrene	1.000	0.8974	89.7	20 - 167
1-Methylnaphthalene	1.000	0.8869	88.7	35 - 131
2-Methylnaphthalene	1.000	1.045	104	36 - 121
Naphthalene	1.000	1.002	100	39 - 125
Phenanthrene	1.000	1.041	104	46 - 144
Pyrene	1.000	1.035	104	39 - 158

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	1.000	0.8441	84.4	7.75	30	41 - 132
Acenaphthylene	1.000	0.7977	79.8	4.86	30	43 - 140
Anthracene	1.000	0.8945	89.5	1.20	30	50 - 139
Benzo(a)anthracene	1.000	1.131	113	1.05	30	58 - 141
Benzo(a)pyrene	1.000	0.8421	84.2	0.804	30	31 - 142
Benzo(b)fluoranthene	1.000	1.050	105	14.7	30	42 - 156
Benzo(g,h,i)perylene	1.000	1.005	101	9.73	30	12 - 171
Benzo(k)fluoranthene	1.000	0.8906	89.1	9.28	30	49 - 165
Chrysene	1.000	1.099	110	1.87	30	51 - 155

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B18006
Laboratory ID: 1B18006-BSD1
Preparation: EXT_3510
Initial/Final: 1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibenz(a,h)anthracene	1.000	0.9436	94.4	6.05	30	28 - 153
Fluoranthene	1.000	1.070	107	1.91	30	47 - 158
Fluorene	1.000	0.8944	89.4	1.89	30	40 - 140
Indeno(1,2,3-cd)pyrene	1.000	0.9413	94.1	4.78	30	20 - 167
1-Methylnaphthalene	1.000	0.9108	91.1	2.66	30	35 - 131
2-Methylnaphthalene	1.000	1.150	115	9.63	30	36 - 121
Naphthalene	1.000	0.9660	96.6	3.60	30	39 - 125
Phenanthrene	1.000	0.9910	99.1	4.94	30	46 - 144
Pyrene	1.000	1.084	108	4.59	30	39 - 158

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B25030	Laboratory ID:	1B25030-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acenaphthene	1.000	0.8548	85.5	41 - 132
Acenaphthylene	1.000	0.7945	79.4	43 - 140
Anthracene	1.000	0.8476	84.8	50 - 139
Benzo(a)anthracene	1.000	0.7752	77.5	58 - 141
Benzo(a)pyrene	1.000	0.7554	75.5	31 - 142
Benzo(b)fluoranthene	1.000	0.9921	99.2	42 - 156
Benzo(g,h,i)perylene	1.000	0.6155	61.6	12 - 171
Benzo(k)fluoranthene	1.000	0.9030	90.3	49 - 165
Chrysene	1.000	0.6098	61.0	51 - 155
Dibenz(a,h)anthracene	1.000	0.5772	57.7	28 - 153
Fluoranthene	1.000	0.7962	79.6	47 - 158
Fluorene	1.000	0.9264	92.6	40 - 140
Indeno(1,2,3-cd)pyrene	1.000	0.6239	62.4	20 - 167
1-Methylnaphthalene	1.000	0.8344	83.4	35 - 131
2-Methylnaphthalene	1.000	0.8326	83.3	36 - 121
Naphthalene	1.000	0.8187	81.9	39 - 125
Phenanthrene	1.000	0.9281	92.8	46 - 144
Pyrene	1.000	0.8154	81.5	39 - 158

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acenaphthene	1.000	0.9350	93.5	8.96	30	41 - 132
Acenaphthylene	1.000	0.8751	87.5	9.66	30	43 - 140
Anthracene	1.000	0.8830	88.3	4.09	30	50 - 139
Benzo(a)anthracene	1.000	0.8256	82.6	6.30	30	58 - 141
Benzo(a)pyrene	1.000	0.7692	76.9	1.80	30	31 - 142
Benzo(b)fluoranthene	1.000	0.9170	91.7	7.87	30	42 - 156
Benzo(g,h,i)perylene	1.000	0.6915	69.1	11.6	30	12 - 171
Benzo(k)fluoranthene	1.000	0.8738	87.4	3.28	30	49 - 165
Chrysene	1.000	0.6620	66.2	8.21	30	51 - 155

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B25030	Laboratory ID:	1B25030-BSD1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibenz(a,h)anthracene	1.000	0.5781	57.8	0.161	30	28 - 153
Fluoranthene	1.000	0.8464	84.6	6.11	30	47 - 158
Fluorene	1.000	0.9739	97.4	5.01	30	40 - 140
Indeno(1,2,3-cd)pyrene	1.000	0.6096	61.0	2.32	30	20 - 167
1-Methylnaphthalene	1.000	0.9346	93.5	11.3	30	35 - 131
2-Methylnaphthalene	1.000	0.8892	88.9	6.58	30	36 - 121
Naphthalene	1.000	0.9016	90.2	9.64	30	39 - 125
Phenanthrene	1.000	0.9601	96.0	3.39	30	46 - 144
Pyrene	1.000	0.8451	84.5	3.58	30	39 - 158

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B18006 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0039-R	1102141-02	02/18/11 14:18	1,070.00	1.00
Blank	1B18006-BLK1	02/18/11 14:18	1,000.00	1.00
LCS	1B18006-BS1	02/18/11 14:18	1,000.00	1.00
LCS Dup	1B18006-BSD1	02/18/11 14:18	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B25030 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0036	1102174-05	02/25/11 16:45	1,060.00	1.00
GW0037	1102174-07	02/25/11 16:45	1,070.00	1.00
Blank	1B25030-BLK1	02/25/11 16:45	1,000.00	1.00
LCS	1B25030-BS1	02/25/11 16:45	1,000.00	1.00
LCS Dup	1B25030-BSD1	02/25/11 16:45	1,000.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	02/07/11
Instrument ID:	MS-BNA4	Injection Time:	18:14
Sequence:	1B03911	Lab Sample ID:	1B03911-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	50.4	PASS
68	Less than 2% of 69	1.6	PASS
69	Less than 200% of 198	48.3	PASS
70	Less than 2% of 69	0.382	PASS
127	40 - 60% of 198	54.8	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.54	PASS
275	10 - 30% of 198	26.1	PASS
365	1 - 200% of 198	3.76	PASS
441	0.001 - 100% of 443	83.9	PASS
442	40 - 200% of 198	121	PASS
443	17 - 23% of 442	19.9	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN2.D	Injection Date:	02/24/11
Instrument ID:	MS-BNA4	Injection Time:	19:52
Sequence:	1B05614	Lab Sample ID:	1B05614-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	55.4	PASS
68	Less than 2% of 69	1.56	PASS
69	Less than 200% of 198	52.2	PASS
70	Less than 2% of 69	0.539	PASS
127	40 - 60% of 198	56.2	PASS
197	Less than 1% of 198	0.0168	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.82	PASS
275	10 - 30% of 198	27.9	PASS
365	1 - 200% of 198	4.54	PASS
441	0.001 - 100% of 443	84.6	PASS
442	40 - 200% of 198	168	PASS
443	17 - 23% of 442	19.4	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	02/25/11
Instrument ID:	MS-BNA4	Injection Time:	12:10
Sequence:	1B05615	Lab Sample ID:	1B05615-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	35.3	PASS
68	Less than 2% of 69	1.59	PASS
69	Less than 200% of 198	36.4	PASS
70	Less than 2% of 69	0.387	PASS
127	40 - 60% of 198	47.1	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.46	PASS
275	10 - 30% of 198	28.7	PASS
365	1 - 200% of 198	4.48	PASS
441	0.001 - 100% of 443	83.7	PASS
442	40 - 200% of 198	152	PASS
443	17 - 23% of 442	19.7	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	02/28/11
Instrument ID:	MS-BNA4	Injection Time:	19:40
Sequence:	1C06115	Lab Sample ID:	1C06115-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	54	PASS
68	Less than 2% of 69	1.39	PASS
69	Less than 200% of 198	52.7	PASS
70	Less than 2% of 69	0.407	PASS
127	40 - 60% of 198	57.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.79	PASS
275	10 - 30% of 198	25.3	PASS
365	1 - 200% of 198	3.37	PASS
441	0.001 - 100% of 443	81.8	PASS
442	40 - 200% of 198	103	PASS
443	17 - 23% of 442	20.3	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	03/01/11
Instrument ID:	MS-BNA4	Injection Time:	12:01
Sequence:	1C06115	Lab Sample ID:	1C06115-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	52.6	PASS
68	Less than 2% of 69	1.55	PASS
69	Less than 200% of 198	50.4	PASS
70	Less than 2% of 69	0.486	PASS
127	40 - 60% of 198	56.1	PASS
197	Less than 1% of 198	1	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.03	PASS
275	10 - 30% of 198	25.6	PASS
365	1 - 200% of 198	3.45	PASS
441	0.001 - 100% of 443	82.1	PASS
442	40 - 200% of 198	103	PASS
443	17 - 23% of 442	19.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	03/04/11
Instrument ID:	MS-BNA4	Injection Time:	15:11
Sequence:	1C06708	Lab Sample ID:	1C06708-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	51.1	PASS
68	Less than 2% of 69	1.61	PASS
69	Less than 200% of 198	50.4	PASS
70	Less than 2% of 69	0.507	PASS
127	40 - 60% of 198	56.5	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.99	PASS
275	10 - 30% of 198	25.3	PASS
365	1 - 200% of 198	3.36	PASS
441	0.001 - 100% of 443	80.4	PASS
442	40 - 200% of 198	99.8	PASS
443	17 - 23% of 442	20.7	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03911	Instrument:	MS-BNA4
Calibration:	1048001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B03911-TUN1	SEQ-TUN1.D	02/07/11 18:14
Cal Standard	1B03911-CAL1	SEQ-CAL1.D	02/07/11 18:33
Cal Standard	1B03911-CAL2	SEQ-CAL2.D	02/07/11 19:06
Cal Standard	1B03911-CAL3	SEQ-CAL3.D	02/07/11 19:39
Cal Standard	1B03911-CAL4	SEQ-CAL4.D	02/07/11 20:12
Cal Standard	1B03911-CAL5	SEQ-CAL5.D	02/07/11 20:45
Cal Standard	1B03911-CAL6	SEQ-CAL6.D	02/07/11 21:18
Cal Standard	1B03911-CAL7	SEQ-CAL7.D	02/07/11 21:51
Cal Standard	1B03911-CAL8	SEQ-CAL8.D	02/07/11 22:24
Cal Standard	1B03911-CAL9	SEQ-CAL9.D	02/07/11 22:57
Cal Standard	1B03911-CALA	SEQ-CALA.D	02/07/11 23:30
Cal Standard	1B03911-CALB	SEQ-CALB.D	02/08/11 00:03
Initial Cal Check	1B03911-ICV3	SEQ-ICV3.D	02/08/11 01:43

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05614	Instrument:	MS-BNA4
Calibration:	1048001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05614-TUN1	SEQ-TUN2.D	02/24/11 19:52
Calibration Check	1B05614-CCV1	SEQ-CCV2.D	02/24/11 20:12
LCS	1B18006-BS1	B18006L1.D	02/24/11 21:55
LCS Dup	1B18006-BSD1	B18006L2.D	02/24/11 22:21
GW0039-R	1102141-02	0214102.D	02/24/11 23:39

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05615	Instrument:	MS-BNA4
Calibration:	1048001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05615-TUN1	SEQ-TUN1.D	02/25/11 12:10
Calibration Check	1B05615-CCV1	SEQ-CCV1.D	02/25/11 12:30
Blank	1B18006-BLK1	B1806B1R.D	02/25/11 13:46

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C06115	Instrument:	MS-BNA4
Calibration:	1061004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C06115-TUN1	SEQ-TUN1.D	02/28/11 19:40
Cal Standard	1C06115-CAL1	SEQ-CAL1.D	02/28/11 19:58
Cal Standard	1C06115-CAL2	SEQ-CAL2.D	02/28/11 20:24
Cal Standard	1C06115-CAL3	SEQ-CAL3.D	02/28/11 20:50
Cal Standard	1C06115-CAL4	SEQ-CAL4.D	02/28/11 21:16
Cal Standard	1C06115-CAL5	SEQ-CAL5.D	02/28/11 21:42
Cal Standard	1C06115-CAL6	SEQ-CAL6.D	02/28/11 22:08
Cal Standard	1C06115-CAL7	SEQ-CAL7.D	02/28/11 22:35
Cal Standard	1C06115-CAL8	SEQ-CAL8.D	02/28/11 23:01
MS Tune	1C06115-TUN2	SEQ-TUN1.D	03/01/11 12:01
Initial Cal Check	1C06115-ICV1	SEQ-ICV1.D	03/01/11 12:19

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C06708	Instrument:	MS-BNA4
Calibration:	1061004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C06708-TUN1	SEQ-TUN1.D	03/04/11 15:11
Calibration Check	1C06708-CCV1	SEQ-CCV1.D	03/04/11 15:30
Blank	1B25030-BLK1	B25030B1.D	03/04/11 16:44
LCS	1B25030-BS1	B25030L1.D	03/04/11 17:11
LCS Dup	1B25030-BSD1	B25030L2.D	03/04/11 17:38
GW0036	1102174-05	0217405.D	03/04/11 18:05
GW0037	1102174-07	0217407.D	03/04/11 18:33

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05614
Instrument: MS-BNA4
Calibration: 1048001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05614-CCV1)			Lab File ID: SEQ-CCV2.D			Analyzed: 02/24/11 20:12			
Phenanthrene-d10	93769	10.48	156632	12.199	60	50 - 200	-1.7190	+/-0.50	
Perylene-d12	80438	15.612	99936	18.353	80	50 - 200	-2.7410	+/-0.50	
LCS (1B18006-BS1)			Lab File ID: B18006L1.D			Analyzed: 02/24/11 21:55			
Phenanthrene-d10	102121	10.48	93769	10.48	109	50 - 200	0.0000	+/-0.50	
Perylene-d12	74204	15.602	80438	15.612	92	50 - 200	-0.0100	+/-0.50	
LCS Dup (1B18006-BSD1)			Lab File ID: B18006L2.D			Analyzed: 02/24/11 22:21			
Phenanthrene-d10	89705	10.48	93769	10.48	96	50 - 200	0.0000	+/-0.50	
Perylene-d12	65362	15.612	80438	15.612	81	50 - 200	0.0000	+/-0.50	
GW0039-R (1102141-02)			Lab File ID: 0214102.D			Analyzed: 02/24/11 23:39			
Phenanthrene-d10	85432	10.48	93769	10.48	91	50 - 200	0.0000	+/-0.50	
Perylene-d12	56251	15.612	80438	15.612	70	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05615
Instrument: MS-BNA4
Calibration: 1048001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05615-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 02/25/11 12:30			
Phenanthrene-d10	136332	10.48	156632	12.199	87	50 - 200	-1.7190	+/-0.50	
Perylene-d12	97406	15.602	99936	18.353	97	50 - 200	-2.7510	+/-0.50	
Blank (1B18006-BLK1)			Lab File ID: B1806B1R.D			Analyzed: 02/25/11 13:46			
Phenanthrene-d10	121241	10.48	136332	10.48	89	50 - 200	0.0000	+/-0.50	
Perylene-d12	75675	15.602	97406	15.602	78	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C06708
Instrument: MS-BNA4
Calibration: 1061004

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1C06708-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 03/04/11 15:30			
Phenanthrene-d10	146161	11.394	106904	11.432	137	50 - 200	-0.0380	+/-0.50	
Perylene-d12	95935	16.498	80420	16.536	119	50 - 200	-0.0380	+/-0.50	
Blank (1B25030-BLK1)			Lab File ID: B25030B1.D			Analyzed: 03/04/11 16:44			
Phenanthrene-d10	150495	11.395	146161	11.394	103	50 - 200	0.0010	+/-0.50	
Perylene-d12	85802	16.498	95935	16.498	89	50 - 200	0.0000	+/-0.50	
LCS (1B25030-BS1)			Lab File ID: B25030L1.D			Analyzed: 03/04/11 17:11			
Phenanthrene-d10	148469	11.394	146161	11.394	102	50 - 200	0.0000	+/-0.50	
Perylene-d12	52488	16.498	95935	16.498	55	50 - 200	0.0000	+/-0.50	
LCS Dup (1B25030-BSD1)			Lab File ID: B25030L2.D			Analyzed: 03/04/11 17:38			
Phenanthrene-d10	135413	11.395	146161	11.394	93	50 - 200	0.0010	+/-0.50	
Perylene-d12	55205	16.498	95935	16.498	58	50 - 200	0.0000	+/-0.50	
GW0036 (1102174-05)			Lab File ID: 0217405.D			Analyzed: 03/04/11 18:05			
Phenanthrene-d10	152941	11.395	146161	11.394	105	50 - 200	0.0010	+/-0.50	
Perylene-d12	80118	16.498	95935	16.498	84	50 - 200	0.0000	+/-0.50	
GW0037 (1102174-07)			Lab File ID: 0217407.D			Analyzed: 03/04/11 18:33			
Phenanthrene-d10	163734	11.395	146161	11.394	112	50 - 200	0.0010	+/-0.50	
Perylene-d12	83557	16.498	95935	16.498	87	50 - 200	0.0000	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1048001
Instrument: MS-BNA4
Matrix: Water
Calibration Date: 2/7/2011 6:33:21PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	0.05	0.7687549	0.1	0.7794806	0.25	0.7766594	0.5	0.7998819	1	0.8071786	2	0.7640138
Acenaphthylene	0.05	1.136151	0.1	1.152763	0.25	1.161768	0.5	1.232618	1	1.205188	2	1.124647
Anthracene	0.05	1.1272	0.1	1.090745	0.25	1.069653	0.5	1.101154	1	1.133319	2	1.038877
Benzo(a)anthracene	0.05	0.7748101	0.1	0.6248166	0.25	0.6014083	0.5	0.6444341	1	0.7394402	2	0.6717666
Benzo(a)pyrene	0.05	0.926754	0.1	0.8906985	0.25	0.9382025	0.5	0.9466959	1	0.995267	2	0.9239176
Benzo(b)fluoranthene	0.05	1.071226	0.1	0.8732557	0.25	0.9560665	0.5	1.032767	1	1.095081	2	1.064222
Benzo(g,h,i)perylene	0.05	0.8246691	0.1	0.7337133	0.25	0.6937903	0.5	0.7818547	1	0.8054755	2	0.7348593
Benzo(k)fluoranthene	0.05	1.308907	0.1	1.125365	0.25	1.287534	0.5	1.384538	1	1.220601	2	1.205992
Chrysene	0.05	0.8303606	0.1	0.7906286	0.25	0.7466236	0.5	0.7549162	1	0.80172	2	0.6973931
Dibenz(a,h)anthracene	0.05	0.6788651	0.1	0.6630294	0.25	0.6084448	0.5	0.6697015	1	0.6919328	2	0.6498355
Fluoranthene	0.05	1.062303	0.1	1.022742	0.25	0.9407826	0.5	0.9756467	1	1.023028	2	0.9696554
Fluorene	0.05	0.6468598	0.1	0.744159	0.25	0.732102	0.5	0.8194482	1	0.8230055	2	0.7665987
2-Fluorobiphenyl	0.05	0.7287375	0.1	0.8186747	0.25	0.8743161	0.5	0.8858138	1	0.9209548	2	0.8523206
Indeno(1,2,3-cd)pyrene	0.05	0.915214	0.1	0.7778274	0.25	0.8272576	0.5	0.8718282	1	0.8883886	2	0.8420033
1-Methylnaphthalene	0.05	0.9556781	0.1	0.8689581	0.25	0.7951518	0.5	0.8449829	1	0.8159955	2	0.8012708
2-Methylnaphthalene	0.05	0.6747667	0.1	0.7228018	0.25	0.799192	0.5	0.7940243	1	0.8082065	2	0.7386292
Naphthalene	0.05	1.246462	0.1	1.141791	0.25	1.24368	0.5	1.278543	1	1.305538	2	1.243128
Phenanthrene	0.05	1.04914	0.1	1.006196	0.25	1.019947	0.5	1.040929	1	1.087064	2	0.9834352
Pyrene	0.05	1.010965	0.1	1.007663	0.25	0.9867021	0.5	1.018902	1	1.066506	2	0.9655344
Terphenyl-d14	0.05	0.5859123	0.1	0.578171	0.25	0.5713263	0.5	0.5883808	1	0.642174	2	0.5892298
2,4,6-Tribromophenol	0.1	5.462898E-02	0.2	7.580647E-02	0.5	9.489784E-02	1	0.1089439	2	0.1307076	4	0.1248782

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1048001
Instrument: MS-BNA4
Matrix: Water
Calibration Date: 2/7/2011 6:33:21PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	5	0.7377252	10	0.7830595	20	0.8276625	40	0.7771579	50	0.8980751		
Acenaphthylene	5	1.1949	10	1.219168	20	1.263119	40	1.160777	50	1.333199		
Anthracene	5	1.095892	10	1.056848	20	1.087627	40	1.063203	50	1.07132		
Benzo(a)anthracene	5	0.7405289	10	0.6744947	20	0.6091123	40	0.6920424	50	0.6670891		
Benzo(a)pyrene	5	1.028292	10	1.056758	20	1.04443	40	1.034508	50	1.080564		
Benzo(b)fluoranthene	5	1.137275	10	1.155306	20	1.155705	40	1.220756	50	1.260372		
Benzo(g,h,i)perylene	5	0.8921536	10	0.9181814	20	0.9170102	40	0.9395668	50	0.8943174		
Benzo(k)fluoranthene	5	1.184552	10	1.272388	20	1.18664	40	1.139649	50	1.204391		
Chrysene	5	0.7345836	10	0.6767857	20	0.6198731	40	0.6466793	50	0.6351785		
Dibenz(a,h)anthracene	5	0.8485192	10	0.8803464	20	0.9008122	40	0.9424926	50	0.9102547		
Fluoranthene	5	1.026152	10	1.01825	20	0.9539957	40	0.9411422	50	0.9189415		
Fluorene	5	0.7670745	10	0.7937771	20	0.8454238	40	0.7848189	50	0.8589597		
2-Fluorobiphenyl	5	0.8783049	10	0.8994623	20	0.9503178	40	0.8884214	50	1.041237		
Indeno(1,2,3-cd)pyrene	5	1.069882	10	1.082264	20	1.109182	40	1.150069	50	1.104343		
1-Methylnaphthalene	5	0.8038967	10	0.8209737	20	0.8807318	40	0.7756046	50	0.9087576		
2-Methylnaphthalene	5	0.773088	10	0.8093608	20	0.8402791	40	0.7578547	50	0.8709262		
Naphthalene	5	1.290397	10	1.315019	20	1.418772	40	1.207416	50	1.387788		
Phenanthrene	5	1.049277	10	1.053486	20	1.072179	40	1.054583	50	1.073802		
Pyrene	5	1.015789	10	1.013387	20	0.9541999	40	0.9927119	50	0.9540703		
Terphenyl-d14	5	0.642525	10	0.6168882	20	0.5844269	40	0.5950906	50	0.5742964		
2,4,6-Tribromophenol	10	0.1450625	20	0.1545971	40	0.1608854	80	0.1619007	100	0.1720573		

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1048001
Instrument: MS-BNA4
Matrix: Water
Calibration Date: 2/7/2011 6:33:21PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	0.7926954	5.318234	10.39527	5.971224E-02			CCC (30)	
Acenaphthylene	1.198573	5.154891	10.18691	4.731456E-02			15	
Anthracene	1.085076	2.663468	12.29609	3.862814E-02			15	
Benzo(a)anthracene	0.6763585	8.358676	15.60309	2.142343E-02			15	
Benzo(a)pyrene	0.9878261	6.547324	18.24164	5.668756E-02			CCC (30)	
Benzo(b)fluoranthene	1.092912	10.27405	17.56236	5.894665E-02			15	
Benzo(g,h,i)perylene	0.8305083	10.43963	21.38382	7.386433E-02			15	
Benzo(k)fluoranthene	1.229142	6.280104	17.61618	6.153129E-02			15	
Chrysene	0.7213402	9.894529	15.663	4.825978E-02			15	
Dibenz(a,h)anthracene	0.7676577	16.54231	20.81327	7.143003E-02	0.9994472		0.995	
Fluoranthene	0.9866036	4.66066	13.70827	3.573892E-02			CCC (30)	
Fluorene	0.7802025	7.667299	11.03864	6.130489E-02			15	
2-Fluorobiphenyl	0.8853237	8.766314	9.524182	0.1068576			15	
Indeno(1,2,3-cd)pyrene	0.9671145	14.07617	20.77682	7.155087E-02			15	
1-Methylnaphthalene	0.8429092	6.545285	9.193818	9.234948E-02			15	
2-Methylnaphthalene	0.7808299	7.097333	9.071273	0.1155369			15	
Naphthalene	1.279867	6.104298	8.222455	7.228635E-02			15	
Phenanthrene	1.044549	2.946851	12.23027	5.301422E-02			15	
Pyrene	0.9987664	3.320125	13.98973	3.049288E-02			15	
Terphenyl-d14	0.5971292	4.255474	14.17245	0.0236856			15	
2,4,6-Tribromophenol	0.1258515	30.46799	11.34973	5.292164E-02	0.9985944		0.995	

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1061004
Instrument: MS-BNA4
Matrix: Water
Calibration Date: 2/28/2011 7:58:20PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	0.2	0.8535207	0.5	0.873421	1	0.9064357	5	0.8395738	10	0.784535	20	0.8168652
Acenaphthylene	0.2	1.382044	0.5	1.218477	1	1.435272	5	1.311268	10	1.208637	20	1.217291
Anthracene	0.2	1.058534	0.5	1.093939	1	1.125915	5	1.133941	10	1.170225	20	1.132615
Benzo(a)anthracene	0.2	0.6476147	0.5	0.7623581	1	0.8156699	5	0.8984042	10	1.054533	20	0.8423353
Benzo(a)pyrene	0.2	1.02565	0.5	1.014554	1	1.005352	5	1.046623	10	1.13987	20	1.083464
Benzo(b)fluoranthene	0.2	1.352174	0.5	1.123357	1	1.241503	5	1.234178	10	1.470413	20	1.430442
Benzo(g,h,i)perylene	0.2	1.25079	0.5	0.9738602	1	0.9538002	5	0.8937802	10	0.8523731	20	0.9100527
Benzo(k)fluoranthene	0.2	1.25079	0.5	1.187413	1	1.228864	5	1.399423	10	1.350928	20	1.327367
Chrysene	0.2	0.7374538	0.5	0.8493865	1	0.842695	5	0.9126712	10	1.060452	20	0.7892754
Dibenz(a,h)anthracene	0.2	0.9186101	0.5	0.772847	1	0.7332764	5	0.807053	10	0.8074299	20	0.8601228
Fluoranthene	0.2	1.051742	0.5	1.162418	1	1.179913	5	1.225501	10	1.272376	20	1.210129
Fluorene	0.2	0.7020536	0.5	0.7674959	1	0.8242432	5	0.8055957	10	0.8027371	20	0.8141917
2-Fluorobiphenyl	0.2	0.9678027	0.5	0.9267382	1	0.971158	5	0.9172978	10	0.8347461	20	0.8721172
Indeno(1,2,3-cd)pyrene	0.2	1.19648	0.5	1.0475	1	1.041161	5	1.035051	10	1.034813	20	1.078813
1-Methylnaphthalene	0.2	1.063294	0.5	0.9409067	1	0.9548364	5	0.8620632	10	0.8000648	20	0.8432121
2-Methylnaphthalene	0.2	1.091703	0.5	0.9503314	1	0.953009	5	0.8485033	10	0.790738	20	0.8347751
Naphthalene	0.2	1.685474	0.5	1.472423	1	1.51616	5	1.341546	10	1.240043	20	1.318205
Phenanthrene	0.2	1.134937	0.5	1.1581	1	1.184863	5	1.175284	10	1.202262	20	1.17303
Pyrene	0.2	1.092794	0.5	1.147446	1	1.174827	5	1.234693	10	1.289576	20	1.223257
Terphenyl-d14	0.2	0.6118179	0.5	0.7063144	1	0.7228992	5	0.7705175	10	0.8117648	20	0.7422102
2,4,6-Tribromophenol	0.4	~~6.326415E-02~~	1	~~8.579129E-02~~	2	~~0.1089983~~	10	0.1584169	20	0.1656128	40	0.175367
1,4-Dichlorobenzene-d4	1		1		1		1		1		1	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1061004
Instrument: MS-BNA4
Matrix: Water
Calibration Date: 2/28/2011 7:58:20PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Acenaphthene	40	0.7820316	50	0.7652934								
Acenaphthylene	40	1.094458	50	1.018169								
Anthracene	40	1.152126	50	1.196303								
Benzo(a)anthracene	40	1.003107	50	0.9291589								
Benzo(a)pyrene	40	1.080537	50	1.058466								
Benzo(b)fluoranthene	40	1.335067	50	1.516975								
Benzo(g,h,i)perylene	40	0.9253269	50	0.8257036								
Benzo(k)fluoranthene	40	1.386509	50	1.229503								
Chrysene	40	0.9474654	50	0.8935192								
Dibenz(a,h)anthracene	40	0.8924079	50	0.7981977								
Fluoranthene	40	1.255338	50	1.219358								
Fluorene	40	0.7859858	50	0.8053954								
2-Fluorobiphenyl	40	0.8111573	50	0.8142831								
Indeno(1,2,3-cd)pyrene	40	1.109845	50	0.9998711								
1-Methylnaphthalene	40	0.7771338	50	0.7467535								
2-Methylnaphthalene	40	0.7827356	50	0.7506397								
Naphthalene	40	1.179985	50	1.155622								
Phenanthrene	40	1.176864	50	1.189216								
Pyrene	40	1.276995	50	1.213951								
Terphenyl-d14	40	0.8018532	50	0.7661409								
2,4,6-Tribromophenol	80	0.1735388	100	0.164136								
1,4-Dichlorobenzene-d4	1		1									

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1061004
Instrument: MS-BNA4
Matrix: Water
Calibration Date: 2/28/2011 7:58:20PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acenaphthene	0.8277096	5.964029	9.633875	8.915397E-02			CCC (30)	
Acenaphthylene	1.235702	11.26304	9.425	6.665902E-02			15	
Anthracene	1.13295	3.786272	11.52837	6.266625E-02			15	
Benzo(a)anthracene	0.8691476	15.11626	14.71213	5.462316E-02	0.9952477		0.995	
Benzo(a)pyrene	1.056815	4.183578	16.4705	5.396188E-02			CCC (30)	
Benzo(b)fluoranthene	1.338014	9.966544	16.07662	5.173099E-02			15	
Benzo(g,h,i)perylene	0.9482109	13.88728	18.45625	7.723512E-02			15	
Benzo(k)fluoranthene	1.2951	6.235241	16.108	5.845528E-02			15	
Chrysene	0.8791148	11.31297	14.76	4.591394E-02			15	
Dibenz(a,h)anthracene	0.8237431	7.540873	18.024	5.675539E-02			15	
Fluoranthene	1.197097	5.749219	12.9345	5.235663E-02			CCC (30)	
Fluorene	0.7884623	4.944379	10.27338	6.435991E-02			15	
2-Fluorobiphenyl	0.8894126	7.367129	8.767375	5.071162E-02			15	
Indeno(1,2,3-cd)pyrene	1.067942	5.744412	18.02163	5.897508E-02			15	
1-Methylnaphthalene	0.8735331	12.15937	8.4405	5.284201E-02			15	
2-Methylnaphthalene	0.8753044	13.10583	8.321125	5.827663E-02			15	
Naphthalene	1.363682	13.39317	7.482125	3.967633E-02			15	
Phenanthrene	1.17432	1.744274	11.461	5.511778E-02			15	
Pyrene	1.206692	5.463181	13.21437	5.315315E-02			15	
Terphenyl-d14	0.7416898	8.59253	13.40512	3.369558E-02			15	
2,4,6-Tribromophenol	0.1674143	4.178063	10.5764	9.131494E-02			15	
1,4-Dichlorobenzene-d4							15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA4	Calibration:	1048001
Lab File ID:	SEQ-ICV3.D	Calibration Date:	02/07/11 18:33
Sequence:	1B03911	Injection Date:	02/08/11
Lab Sample ID:	1B03911-ICV3	Injection Time:	01:43

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	5.000	5.043	0.7926954	0.7995186		0.9	20
Acenaphthylene	A	5.000	4.931	1.198573	1.182003		-1.4	20
Anthracene	A	5.000	4.980	1.085076	1.080634		-0.4	20
Benzo(a)anthracene	A	5.000	5.070	0.6763585	0.6858315		1.4	20
Benzo(a)pyrene	A	5.000	5.149	0.9878261	1.017329		3.0	20
Benzo(b)fluoranthene	A	5.000	5.268	1.092912	1.151497		5.4	20
Benzo(g,h,i)perylene	A	5.000	5.258	0.8305083	0.8733713		5.2	20
Benzo(k)fluoranthene	A	5.000	5.144	1.229142	1.264612		2.9	20
Chrysene	A	5.000	4.973	0.7213402	0.7174082		-0.5	20
Dibenz(a,h)anthracene	L	5.000	4.922	0.7676577	0.799063		-1.6	20
Fluoranthene	A	5.000	5.223	0.9866036	1.030623		4.5	20
Fluorene	A	5.000	5.079	0.7802025	0.7926011		1.6	20
Indeno(1,2,3-cd)pyrene	A	5.000	5.202	0.9671145	1.006173		4.0	20
1-Methylnaphthalene	A	5.000	4.700	0.8429092	0.7924099		-6.0	20
2-Methylnaphthalene	A	5.000	5.839	0.7808299	0.9118984		16.8	20
Naphthalene	A	5.000	5.195	1.279867	1.329684		3.9	20
Phenanthrene	A	5.000	5.000	1.044549	1.044453		-0.009	20
Pyrene	A	5.000	5.175	0.9987664	1.033722		3.5	20
2-Fluorobiphenyl	A	5.000	4.983	0.8853237	0.8823667		-0.3	20
Terphenyl-d14	A	5.000	5.238	0.5971292	0.6255041		4.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA4	Calibration:	1061004
Lab File ID:	SEQ-ICV1.D	Calibration Date:	02/28/11 19:58
Sequence:	1C06115	Injection Date:	03/01/11
Lab Sample ID:	1C06115-ICV1	Injection Time:	12:19

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	5.000	5.234	0.8277096	0.8665216		4.7	20
Acenaphthylene	A	5.000	5.787	1.235702	1.430186		15.7	20
Anthracene	A	5.000	5.426	1.13295	1.229415		8.5	20
Benzo(a)anthracene	L	5.000	4.970	0.8691476	0.9136814		-0.6	20
Benzo(a)pyrene	A	5.000	5.399	1.056815	1.141205		8.0	20
Benzo(b)fluoranthene	A	5.000	4.866	1.338014	1.302123		-2.7	20
Benzo(g,h,i)perylene	A	5.000	4.830	0.9482109	0.9159273		-3.4	20
Benzo(k)fluoranthene	A	5.000	5.796	1.2951	1.501354		15.9	20
Chrysene	A	5.000	5.406	0.8791148	0.9505258		8.1	20
Dibenz(a,h)anthracene	A	5.000	4.789	0.8237431	0.7889492		-4.2	20
Fluoranthene	A	5.000	5.284	1.197097	1.265188		5.7	20
Fluorene	A	5.000	5.335	0.7884623	0.8413243		6.7	20
Indeno(1,2,3-cd)pyrene	A	5.000	4.885	1.067942	1.043478		-2.3	20
1-Methylnaphthalene	A	5.000	5.030	0.8735331	0.8786867		0.6	20
2-Methylnaphthalene	A	5.000	5.052	0.8753044	0.88448		1.0	20
Naphthalene	A	5.000	5.217	1.363682	1.422778		4.3	20
Phenanthrene	A	5.000	5.384	1.17432	1.264507		7.7	20
Pyrene	A	5.000	5.486	1.206692	1.324032		9.7	20
2-Fluorobiphenyl	A	5.000	5.477	0.8894126	0.974327		9.5	20
Terphenyl-d14	A	5.000	5.816	0.7416898	0.8626973		16.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA4	Calibration:	1048001
Lab File ID:	SEQ-CCV2.D	Calibration Date:	02/07/11 18:33
Sequence:	1B05614	Injection Date:	02/24/11
Lab Sample ID:	1B05614-CCV1	Injection Time:	20:12

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	5.000	4.834	0.7926954	0.7663663		-3.3	20	
Acenaphthylene	A	5.000	4.952	1.198573	1.187055		-1.0	20	
Anthracene	A	5.000	4.917	1.085076	1.067063		-1.7	20	
Benzo(a)anthracene	A	5.000	6.683	0.6763585	0.9040301		33.7	20	*
Benzo(a)pyrene	A	5.000	4.969	0.9878261	0.9817972		-0.6	20	
Benzo(b)fluoranthene	A	5.000	5.108	1.092912	1.116442		2.2	20	
Benzo(g,h,i)perylene	A	5.000	5.740	0.8305083	0.9534946		14.8	20	
Benzo(k)fluoranthene	A	5.000	4.839	1.229142	1.189567		-3.2	20	
Chrysene	A	5.000	6.235	0.7213402	0.8995062		24.7	20	*
Dibenz(a,h)anthracene	L	5.000	4.860	0.7676577	0.8545314		-2.8	20	
Fluoranthene	A	5.000	5.631	0.9866036	1.111052		12.6	20	
Fluorene	A	5.000	4.812	0.7802025	0.750826		-3.8	20	
Indeno(1,2,3-cd)pyrene	A	5.000	5.705	0.9671145	1.103409		14.1	20	
1-Methylnaphthalene	A	5.000	4.769	0.8429092	0.8039373		-4.6	20	
2-Methylnaphthalene	A	5.000	5.244	0.7808299	0.8188591		4.9	20	
Naphthalene	A	5.000	4.865	1.279867	1.245303		-2.7	20	
Phenanthrene	A	5.000	5.364	1.044549	1.120628		7.3	20	
Pyrene	A	5.000	5.946	0.9987664	1.187832		18.9	20	
2-Fluorobiphenyl	A	5.000	4.880	0.8853237	0.8641705		-2.4	20	
Terphenyl-d14	A	5.000	6.260	0.5971292	0.7476735		25.2	20	*

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA4	Calibration:	1048001
Lab File ID:	SEQ-CCV1.D	Calibration Date:	02/07/11 18:33
Sequence:	1B05615	Injection Date:	02/25/11
Lab Sample ID:	1B05615-CCV1	Injection Time:	12:30

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acenaphthene	A	5.000	4.733	0.7926954	0.7503638		-5.3	20	
Acenaphthylene	A	5.000	4.734	1.198573	1.134888		-5.3	20	
Anthracene	A	5.000	4.938	1.085076	1.07158		-1.2	20	
Benzo(a)anthracene	A	5.000	6.397	0.6763585	0.8653566		27.9	20	*
Benzo(a)pyrene	A	5.000	4.801	0.9878261	0.9485637		-4.0	20	
Benzo(b)fluoranthene	A	5.000	5.559	1.092912	1.215184		11.2	20	
Benzo(g,h,i)perylene	A	5.000	4.233	0.8305083	0.7031456		-15.3	20	
Benzo(k)fluoranthene	A	5.000	4.693	1.229142	1.153781		-6.1	20	
Chrysene	A	5.000	6.020	0.7213402	0.8685723		20.4	20	*
Dibenz(a,h)anthracene	L	5.000	4.150	0.7676577	0.7229411		-17.0	20	
Fluoranthene	A	5.000	5.616	0.9866036	1.108111		12.3	20	
Fluorene	A	5.000	4.919	0.7802025	0.7676232		-1.6	20	
Indeno(1,2,3-cd)pyrene	A	5.000	4.588	0.9671145	0.8873478		-8.2	20	
1-Methylnaphthalene	A	5.000	4.547	0.8429092	0.7665757		-9.1	20	
2-Methylnaphthalene	A	5.000	5.089	0.7808299	0.7947965		1.8	20	
Naphthalene	A	5.000	4.657	1.279867	1.192009		-6.9	20	
Phenanthrene	A	5.000	5.350	1.044549	1.117736		7.0	20	
Pyrene	A	5.000	5.852	0.9987664	1.169055		17.0	20	
2-Fluorobiphenyl	A	5.000	4.869	0.8853237	0.8621277		-2.6	20	
Terphenyl-d14	A	5.000	6.305	0.5971292	0.752956		26.1	20	*

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA4	Calibration:	1061004
Lab File ID:	SEQ-CCV1.D	Calibration Date:	02/28/11 19:58
Sequence:	1C06708	Injection Date:	03/04/11
Lab Sample ID:	1C06708-CCV1	Injection Time:	15:30

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acenaphthene	A	5.000	5.168	0.8277096	0.8554525		3.4	20
Acenaphthylene	A	5.000	5.496	1.235702	1.35838		9.9	20
Anthracene	A	5.000	5.522	1.13295	1.251352		10.5	20
Benzo(a)anthracene	L	5.000	4.900	0.8691476	0.9002278		-2.0	20
Benzo(a)pyrene	A	5.000	5.348	1.056815	1.130493		7.0	20
Benzo(b)fluoranthene	A	5.000	5.044	1.338014	1.349901		0.9	20
Benzo(g,h,i)perylene	A	5.000	4.522	0.9482109	0.8576182		-9.6	20
Benzo(k)fluoranthene	A	5.000	5.068	1.2951	1.312837		1.4	20
Chrysene	A	5.000	5.045	0.8791148	0.8870506		0.9	20
Dibenz(a,h)anthracene	A	5.000	4.997	0.8237431	0.823197		-0.07	20
Fluoranthene	A	5.000	5.246	1.197097	1.256089		4.9	20
Fluorene	A	5.000	5.574	0.7884623	0.8789787		11.5	20
Indeno(1,2,3-cd)pyrene	A	5.000	4.776	1.067942	1.020191		-4.5	20
1-Methylnaphthalene	A	5.000	4.759	0.8735331	0.831505		-4.8	20
2-Methylnaphthalene	A	5.000	5.071	0.8753044	0.8877361		1.4	20
Naphthalene	A	5.000	4.964	1.363682	1.35394		-0.7	20
Phenanthrene	A	5.000	5.426	1.17432	1.27438		8.5	20
Pyrene	A	5.000	5.291	1.206692	1.276923		5.8	20
2-Fluorobiphenyl	A	5.000	5.510	0.8894126	0.980111		10.2	20
Terphenyl-d14	A	5.000	5.542	0.7416898	0.8220606		10.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B18006-BLK1 File ID: B1806B1R.D

Sampled: Prepared: Analyzed: 02/25/11 13:46

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B18006 Sequence: 1B05615 Calibration: 1048001 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0500	0.100	0.200	U
208-96-8	Acenaphthylene		0.0500	0.100	0.200	U
120-12-7	Anthracene		0.0500	0.100	0.200	U
56-55-3	Benzo(a)anthracene		0.0500	0.100	0.200	X, U
50-32-8	Benzo(a)pyrene		0.0500	0.100	0.200	U
205-99-2	Benzo(b)fluoranthene		0.0500	0.100	0.200	U
191-24-2	Benzo(g,h,i)perylene		0.0500	0.100	0.200	U
207-08-9	Benzo(k)fluoranthene		0.0500	0.100	0.200	U
218-01-9	Chrysene		0.0500	0.100	0.200	X, U
53-70-3	Dibenz(a,h)anthracene		0.0500	0.100	0.200	U
206-44-0	Fluoranthene		0.0500	0.100	0.200	U
86-73-7	Fluorene		0.0500	0.100	0.200	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0500	0.100	0.200	U
90-12-0	1-Methylnaphthalene	0.0749	0.0500	0.100	0.200	J
91-57-6	2-Methylnaphthalene	0.259	0.0500	0.100	0.200	
91-20-3	Naphthalene	0.184	0.0500	0.100	0.200	J
85-01-8	Phenanthrene		0.0500	0.100	0.200	U
129-00-0	Pyrene		0.0500	0.100	0.200	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	36.11	72.2	34 - 167	
Terphenyl-d14	50.00	51.90	104	34 - 167	X

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B18006-BS1 File ID: B18006L1.D

Sampled: Prepared: Analyzed: 02/24/11 21:55

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B18006 Sequence: 1B05614 Calibration: 1048001 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.9122	0.0500	0.100	0.200	
208-96-8	Acenaphthylene	0.8374	0.0500	0.100	0.200	
120-12-7	Anthracene	0.8838	0.0500	0.100	0.200	
56-55-3	Benzo(a)anthracene	1.119	0.0500	0.100	0.200	X
50-32-8	Benzo(a)pyrene	0.8489	0.0500	0.100	0.200	
205-99-2	Benzo(b)fluoranthene	0.9064	0.0500	0.100	0.200	
191-24-2	Benzo(g,h,i)perylene	0.9120	0.0500	0.100	0.200	
207-08-9	Benzo(k)fluoranthene	0.9773	0.0500	0.100	0.200	
218-01-9	Chrysene	1.078	0.0500	0.100	0.200	X
53-70-3	Dibenz(a,h)anthracene	0.8882	0.0500	0.100	0.200	
206-44-0	Fluoranthene	1.050	0.0500	0.100	0.200	
86-73-7	Fluorene	0.9115	0.0500	0.100	0.200	
193-39-5	Indeno(1,2,3-cd)pyrene	0.8974	0.0500	0.100	0.200	
90-12-0	1-Methylnaphthalene	0.8869	0.0500	0.100	0.200	B
91-57-6	2-Methylnaphthalene	1.045	0.0500	0.100	0.200	B
91-20-3	Naphthalene	1.002	0.0500	0.100	0.200	B
85-01-8	Phenanthrene	1.041	0.0500	0.100	0.200	
129-00-0	Pyrene	1.035	0.0500	0.100	0.200	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	41.69	83.4	34 - 167	
Terphenyl-d14	50.00	50.08	100	34 - 167	X

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B18006-BSD1 File ID: B18006L2.D

Sampled: Prepared: Analyzed: 02/24/11 22:21

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B18006 Sequence: 1B05614 Calibration: 1048001 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.8441	0.0500	0.100	0.200	
208-96-8	Acenaphthylene	0.7977	0.0500	0.100	0.200	
120-12-7	Anthracene	0.8945	0.0500	0.100	0.200	
56-55-3	Benzo(a)anthracene	1.131	0.0500	0.100	0.200	X
50-32-8	Benzo(a)pyrene	0.8421	0.0500	0.100	0.200	
205-99-2	Benzo(b)fluoranthene	1.050	0.0500	0.100	0.200	
191-24-2	Benzo(g,h,i)perylene	1.005	0.0500	0.100	0.200	
207-08-9	Benzo(k)fluoranthene	0.8906	0.0500	0.100	0.200	
218-01-9	Chrysene	1.099	0.0500	0.100	0.200	X
53-70-3	Dibenz(a,h)anthracene	0.9436	0.0500	0.100	0.200	
206-44-0	Fluoranthene	1.070	0.0500	0.100	0.200	
86-73-7	Fluorene	0.8944	0.0500	0.100	0.200	
193-39-5	Indeno(1,2,3-cd)pyrene	0.9413	0.0500	0.100	0.200	
90-12-0	1-Methylnaphthalene	0.9108	0.0500	0.100	0.200	B
91-57-6	2-Methylnaphthalene	1.150	0.0500	0.100	0.200	B
91-20-3	Naphthalene	0.9660	0.0500	0.100	0.200	B
85-01-8	Phenanthrene	0.9910	0.0500	0.100	0.200	
129-00-0	Pyrene	1.084	0.0500	0.100	0.200	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	39.01	78.0	34 - 167	
Terphenyl-d14	50.00	46.40	92.8	34 - 167	X

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B25030-BLK1 File ID: B25030B1.D

Sampled: Prepared: Analyzed: 03/04/11 16:44

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B25030 Sequence: 1C06708 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene		0.0500	0.100	0.200	U
208-96-8	Acenaphthylene		0.0500	0.100	0.200	U
120-12-7	Anthracene		0.0500	0.100	0.200	U
56-55-3	Benzo(a)anthracene		0.0500	0.100	0.200	U
50-32-8	Benzo(a)pyrene		0.0500	0.100	0.200	U
205-99-2	Benzo(b)fluoranthene		0.0500	0.100	0.200	U
191-24-2	Benzo(g,h,i)perylene		0.0500	0.100	0.200	U
207-08-9	Benzo(k)fluoranthene		0.0500	0.100	0.200	U
218-01-9	Chrysene		0.0500	0.100	0.200	U
53-70-3	Dibenz(a,h)anthracene		0.0500	0.100	0.200	U
206-44-0	Fluoranthene		0.0500	0.100	0.200	U
86-73-7	Fluorene		0.0500	0.100	0.200	U
193-39-5	Indeno(1,2,3-cd)pyrene		0.0500	0.100	0.200	U
90-12-0	1-Methylnaphthalene		0.0500	0.100	0.200	U
91-57-6	2-Methylnaphthalene		0.0500	0.100	0.200	U
91-20-3	Naphthalene		0.0500	0.100	0.200	U
85-01-8	Phenanthrene		0.0500	0.100	0.200	U
129-00-0	Pyrene		0.0500	0.100	0.200	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	34.59	69.2	34 - 167	
Terphenyl-d14	50.00	36.16	72.3	34 - 167	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B25030-BS1 File ID: B25030L1.D

Sampled: Prepared: Analyzed: 03/04/11 17:11

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B25030 Sequence: 1C06708 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.8548	0.0500	0.100	0.200	
208-96-8	Acenaphthylene	0.7945	0.0500	0.100	0.200	
120-12-7	Anthracene	0.8476	0.0500	0.100	0.200	
56-55-3	Benzo(a)anthracene	0.7752	0.0500	0.100	0.200	
50-32-8	Benzo(a)pyrene	0.7554	0.0500	0.100	0.200	
205-99-2	Benzo(b)fluoranthene	0.9921	0.0500	0.100	0.200	
191-24-2	Benzo(g,h,i)perylene	0.6155	0.0500	0.100	0.200	
207-08-9	Benzo(k)fluoranthene	0.9030	0.0500	0.100	0.200	
218-01-9	Chrysene	0.6098	0.0500	0.100	0.200	
53-70-3	Dibenz(a,h)anthracene	0.5772	0.0500	0.100	0.200	
206-44-0	Fluoranthene	0.7962	0.0500	0.100	0.200	
86-73-7	Fluorene	0.9264	0.0500	0.100	0.200	
193-39-5	Indeno(1,2,3-cd)pyrene	0.6239	0.0500	0.100	0.200	
90-12-0	1-Methylnaphthalene	0.8344	0.0500	0.100	0.200	
91-57-6	2-Methylnaphthalene	0.8326	0.0500	0.100	0.200	
91-20-3	Naphthalene	0.8187	0.0500	0.100	0.200	
85-01-8	Phenanthrene	0.9281	0.0500	0.100	0.200	
129-00-0	Pyrene	0.8154	0.0500	0.100	0.200	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	38.28	76.6	34 - 167	
Terphenyl-d14	50.00	32.10	64.2	34 - 167	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B25030-BSD1 File ID: B25030L2.D

Sampled: Prepared: Analyzed: 03/04/11 17:38

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B25030 Sequence: 1C06708 Calibration: 1061004 Instrument: MS-BNA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
83-32-9	Acenaphthene	0.9350	0.0500	0.100	0.200	
208-96-8	Acenaphthylene	0.8751	0.0500	0.100	0.200	
120-12-7	Anthracene	0.8830	0.0500	0.100	0.200	
56-55-3	Benzo(a)anthracene	0.8256	0.0500	0.100	0.200	
50-32-8	Benzo(a)pyrene	0.7692	0.0500	0.100	0.200	
205-99-2	Benzo(b)fluoranthene	0.9170	0.0500	0.100	0.200	
191-24-2	Benzo(g,h,i)perylene	0.6915	0.0500	0.100	0.200	
207-08-9	Benzo(k)fluoranthene	0.8738	0.0500	0.100	0.200	
218-01-9	Chrysene	0.6620	0.0500	0.100	0.200	
53-70-3	Dibenz(a,h)anthracene	0.5781	0.0500	0.100	0.200	
206-44-0	Fluoranthene	0.8464	0.0500	0.100	0.200	
86-73-7	Fluorene	0.9739	0.0500	0.100	0.200	
193-39-5	Indeno(1,2,3-cd)pyrene	0.6096	0.0500	0.100	0.200	
90-12-0	1-Methylnaphthalene	0.9346	0.0500	0.100	0.200	
91-57-6	2-Methylnaphthalene	0.8892	0.0500	0.100	0.200	
91-20-3	Naphthalene	0.9016	0.0500	0.100	0.200	
85-01-8	Phenanthrene	0.9601	0.0500	0.100	0.200	
129-00-0	Pyrene	0.8451	0.0500	0.100	0.200	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	43.27	86.5	34 - 167	
Terphenyl-d14	50.00	32.95	65.9	34 - 167	

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0039-R	02/15/11 10:30	02/16/11 08:30	02/18/11 14:18	3.16	7.00	02/24/11 23:39	6.39	40.00	
GW0036	02/17/11 10:18	02/18/11 08:45	02/25/11 16:45	8.23	7.00	03/04/11 18:05	7.06	40.00	*
GW0037	02/17/11 10:50	02/18/11 08:45	02/25/11 16:45	8.20	7.00	03/04/11 18:33	7.07	40.00	*

SW8015B (GRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1A02805	Instrument:	GL-GCVOA2
Calibration:	1028002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1A02805-CAL1	003F0301.D	01/27/11 18:33
Cal Standard	1A02805-CAL2	004F0401.D	01/27/11 19:08
Cal Standard	1A02805-CAL3	005F0501.D	01/27/11 19:44
Cal Standard	1A02805-CAL4	006F0601.D	01/27/11 20:20
Cal Standard	1A02805-CAL5	007F0701.D	01/27/11 20:55
Cal Standard	1A02805-CAL6	008F0801.D	01/27/11 21:31
Initial Cal Check	1A02805-ICV1	009F0901.D	01/27/11 22:07

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04818	Instrument:	GL-GCVOA2
Calibration:	1028002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04818-CCV1	003F0301.D	02/16/11 16:44
Blank	1B15017-BLK1	004F0401.D	02/16/11 17:19
LCS	1B15017-BS1	005F0501.D	02/16/11 17:54
LCS Dup	1B15017-BSD1	006F0601.D	02/16/11 18:29
GW0019	1102135-01	008F0801.D	02/16/11 19:38
GW0020	1102135-03	009F0901.D	02/16/11 20:13
GW0021	1102135-05	010F1001.D	02/16/11 20:48
GW0022	1102141-01	011F1101.D	02/16/11 21:22
GW8002-RB	1102141-04	012F1201.D	02/16/11 21:57
Calibration Check	1B04818-CCV2	013F1301.D	02/16/11 22:33

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05519
Instrument: GL-GCVOA2
Calibration: 1028002

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B05519-CCV1	003F0301.D	02/23/11 13:24
Blank	1B22015-BLK1	008F0801.D	02/23/11 16:16
LCS	1B22015-BS1	009F0901.D	02/23/11 16:51
LCS Dup	1B22015-BSD1	010F1001.D	02/23/11 17:25
GW0011	1102166-01	011F1101.D	02/23/11 17:59
GW0011	1B22015-MS1	012F1201.D	02/23/11 18:33
GW0011	1B22015-MSD1	013F1301.D	02/23/11 19:08
GW0031	1102166-03	015F1501.D	02/23/11 20:17
GW0010	1102174-01	016F1601.D	02/23/11 20:51
GW0015	1102174-03	017F1701.D	02/23/11 21:26
GW0036	1102174-05	018F1801.D	02/23/11 22:00
GW0037	1102174-07	019F1901.D	02/23/11 22:35
GW0038	1102174-09	020F2001.D	02/23/11 23:11
Calibration Check	1B05519-CCV2	021F2101.D	02/23/11 23:47

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05605	Instrument:	GL-GCVOA2
Calibration:	1028002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B05605-CCV1	003F0301.D	02/24/11 11:36
Blank	1B24005-BLK1	004F0401.D	02/24/11 12:10
LCS	1B24005-BS1	005F0501.D	02/24/11 12:45
LCS Dup	1B24005-BSD1	006F0601.D	02/24/11 13:19
GW0009	1102179-01	007F0701.D	02/24/11 13:54
Calibration Check	1B05605-CCV2	008F0801.D	02/24/11 14:28

ANALYSIS DATA SHEET

GW0019

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-01	File ID:	008F0801.D
Sampled:	02/14/11 16:45	Prepared:	02/16/11 14:46	Analyzed:	02/16/11 19:38
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B15017	Sequence:	1B04818	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	1.02	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05616	112	50 - 150	

ANALYSIS DATA SHEET

GW0020

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-03	File ID:	009F0901.D
Sampled:	02/14/11 16:45	Prepared:	02/16/11 14:46	Analyzed:	02/16/11 20:13
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B15017	Sequence:	1B04818	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	1.03	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05637	113	50 - 150	

ANALYSIS DATA SHEET

GW0021

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-05	File ID:	010F1001.D
Sampled:	02/14/11 11:17	Prepared:	02/16/11 14:46	Analyzed:	02/16/11 20:48
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B15017	Sequence:	1B04818	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.0845	0.0500	0.100	0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05422	108	50 - 150	

ANALYSIS DATA SHEET

GW0022

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-01	File ID:	011F1101.D
Sampled:	02/15/11 13:59	Prepared:	02/16/11 14:46	Analyzed:	02/16/11 21:22
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B15017	Sequence:	1B04818	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.0642	0.0500	0.100	0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05383	108	50 - 150	

ANALYSIS DATA SHEET

GW8002-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-04	File ID:	012F1201.D
Sampled:	02/15/11 14:50	Prepared:	02/16/11 14:46	Analyzed:	02/16/11 21:57
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B15017	Sequence:	1B04818	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05286	106	50 - 150	

ANALYSIS DATA SHEET

GW0011

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-01	File ID:	011F1101.D
Sampled:	02/16/11 10:45	Prepared:	02/23/11 11:38	Analyzed:	02/23/11 17:59
Solids:		Preparation:	8015GRO	Dilution:	10
Batch:	1B22015	Sequence:	1B05519	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	34.8	0.500	1.00	1.50	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05783	116	50 - 150	

ANALYSIS DATA SHEET

GW0031

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-03	File ID:	015F1501.D
Sampled:	02/16/11 15:05	Prepared:	02/23/11 11:38	Analyzed:	02/23/11 20:17
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B22015	Sequence:	1B05519	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	4.12	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06566	131	50 - 150	

ANALYSIS DATA SHEET

GW0010

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-01	File ID:	016F1601.D
Sampled:	02/17/11 14:56	Prepared:	02/23/11 11:38	Analyzed:	02/23/11 20:51
Solids:		Preparation:	8015GRO	Dilution:	25
Batch:	1B22015	Sequence:	1B05519	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	38.3	1.25	2.50	3.75	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05798	116	50 - 150	

ANALYSIS DATA SHEET

GW0015

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-03	File ID:	017F1701.D
Sampled:	02/17/11 11:10	Prepared:	02/23/11 11:38	Analyzed:	02/23/11 21:26
Solids:		Preparation:	8015GRO	Dilution:	10
Batch:	1B22015	Sequence:	1B05519	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	22.7	0.500	1.00	1.50	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05678	114	50 - 150	

ANALYSIS DATA SHEET

GW0036

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-05	File ID:	018F1801.D
Sampled:	02/17/11 10:18	Prepared:	02/23/11 11:38	Analyzed:	02/23/11 22:00
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B22015	Sequence:	1B05519	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05138	103	50 - 150	

ANALYSIS DATA SHEET

GW0037

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-07	File ID:	019F1901.D
Sampled:	02/17/11 10:50	Prepared:	02/23/11 11:38	Analyzed:	02/23/11 22:35
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B22015	Sequence:	1B05519	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05227	105	50 - 150	

ANALYSIS DATA SHEET

GW0038

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-09	File ID:	020F2001.D
Sampled:	02/17/11 10:50	Prepared:	02/23/11 11:38	Analyzed:	02/23/11 23:11
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1B22015	Sequence:	1B05519	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05027	101	50 - 150	

ANALYSIS DATA SHEET

GW0009

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102179-01	File ID:	007F0701.D
Sampled:	02/18/11 13:06	Prepared:	02/24/11 09:48	Analyzed:	02/24/11 13:54
Solids:		Preparation:	8015GRO	Dilution:	10
Batch:	1B24005	Sequence:	1B05605	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	21.1	0.500	1.00	1.50	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.06281	126	50 - 150	

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15017	Laboratory ID:	1B15017-BS1
Preparation:	8015GRO	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5778	116	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.6173	123	6.61	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B22015	Laboratory ID:	1B22015-BS1
Preparation:	8015GRO	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5479	110	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5863	117	6.78	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B24005	Laboratory ID:	1B24005-BS1
Preparation:	8015GRO	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5498	110	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5995	120	8.65	50	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B22015

% Solids:

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	34.83	27.07	-1550	*	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	28.46	-1280	5.00	*	50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B15017 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0019	1102135-01	02/16/11 14:46	5.00	5.00
GW0020	1102135-03	02/16/11 14:46	5.00	5.00
GW0021	1102135-05	02/16/11 14:46	5.00	5.00
GW0022	1102141-01	02/16/11 14:46	5.00	5.00
GW8002-RB	1102141-04	02/16/11 14:46	5.00	5.00
Blank	1B15017-BLK1	02/16/11 14:46	5.00	5.00
LCS	1B15017-BS1	02/16/11 14:46	5.00	5.00
LCS Dup	1B15017-BSD1	02/16/11 14:46	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B22015 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0011	1102166-01	02/23/11 11:38	5.00	5.00
GW0031	1102166-03	02/23/11 11:38	5.00	5.00
GW0010	1102174-01	02/23/11 11:38	5.00	5.00
GW0015	1102174-03	02/23/11 11:38	5.00	5.00
GW0036	1102174-05	02/23/11 11:38	5.00	5.00
GW0037	1102174-07	02/23/11 11:38	5.00	5.00
GW0038	1102174-09	02/23/11 11:38	5.00	5.00
Blank	1B22015-BLK1	02/23/11 11:38	5.00	5.00
LCS	1B22015-BS1	02/23/11 11:38	5.00	5.00
LCS Dup	1B22015-BSD1	02/23/11 11:38	5.00	5.00
GW0011	1B22015-MS1	02/23/11 11:38	5.00	5.00
GW0011	1B22015-MSD1	02/23/11 11:38	5.00	5.00

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B24005 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0009	1102179-01	02/24/11 09:48	5.00	5.00
Blank	1B24005-BLK1	02/24/11 09:48	5.00	5.00
LCS	1B24005-BS1	02/24/11 09:48	5.00	5.00
LCS Dup	1B24005-BSD1	02/24/11 09:48	5.00	5.00

INITIAL CALIBRATION STANDARDS

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1A02805	Instrument:	GL-GCVOA2
Calibration:	1028002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11A0780	GRO Cal 0.1ppm	1A02805-CAL1	003F0301.D	01/27/11 18:33
11A0781	GRO Cal 0.2ppm	1A02805-CAL2	004F0401.D	01/27/11 19:08
11A0783	GRO Cal 0.5ppm	1A02805-CAL3	005F0501.D	01/27/11 19:44
11A0789	GRO Cal 1.0ppm	1A02805-CAL4	006F0601.D	01/27/11 20:20
11A0790	GRO Cal 2.0ppm	1A02805-CAL5	007F0701.D	01/27/11 20:55
11A0791	GRO Cal 5.0ppm	1A02805-CAL6	008F0801.D	01/27/11 21:31

INITIAL CALIBRATION DATA

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1028002	Instrument:	GL-GCVOA2
Matrix:	Water	Calibration Date:	1/27/2011 6:33:04PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Gasoline Range Organics (C6-C10	5	2516042	2	2730054	1	2493619	0.5	2526354	0.2	3408960	0.1	3753180
Bromofluorobenzene	0.5	1483418	0.2	1700855	0.1	1733590	0.05	1558880	0.02	1723950	0.01	1745400

INITIAL CALIBRATION DATA (Continued)

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1028002	Instrument:	GL-GCVOA2
Matrix:	Water	Calibration Date:	1/27/2011 6:33:04PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Gasoline Range Organics (C6-C10)	2904701	18.65348	7.287	1.259059E-02			20	
Bromofluorobenzene	1657682	6.599566	19.57967	2.614775E-02			20	

INITIAL CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	009F0901.D	Calibration Date:	01/27/11 18:33
Sequence:	1A02805	Injection Date:	01/27/11
Lab Sample ID:	1A02805-ICV1	Injection Time:	22:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5128	2904701	2979066		2.6	20
Bromofluorobenzene	A	0.05000	0.05836	1657682	1934860		16.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	003F0301.D	Calibration Date:	01/27/11 18:33
Sequence:	1B04818	Injection Date:	02/16/11
Lab Sample ID:	1B04818-CCV1	Injection Time:	16:44

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5438	2904701	3159356		8.8	20
Bromofluorobenzene	A	0.05000	0.05742	1657682	1903720		14.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	013F1301.D	Calibration Date:	01/27/11 18:33
Sequence:	1B04818	Injection Date:	02/16/11
Lab Sample ID:	1B04818-CCV2	Injection Time:	22:33

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5516	2904701	3204674		10.3	20
Bromofluorobenzene	A	0.05000	0.05578	1657682	1849160		11.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	003F0301.D	Calibration Date:	01/27/11 18:33
Sequence:	1B05519	Injection Date:	02/23/11
Lab Sample ID:	1B05519-CCV1	Injection Time:	13:24

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5309	2904701	3084116		6.2	20
Bromofluorobenzene	A	0.05000	0.05622	1657682	1863880		12.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	021F2101.D	Calibration Date:	01/27/11 18:33
Sequence:	1B05519	Injection Date:	02/23/11
Lab Sample ID:	1B05519-CCV2	Injection Time:	23:47

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.4882	2904701	2835900		-2.4	20
Bromofluorobenzene	A	0.05000	0.05275	1657682	1748800		5.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	003F0301.D	Calibration Date:	01/27/11 18:33
Sequence:	1B05605	Injection Date:	02/24/11
Lab Sample ID:	1B05605-CCV1	Injection Time:	11:36

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5264	2904701	3058086		5.3	20
Bromofluorobenzene	A	0.05000	0.05625	1657682	1864840		12.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	008F0801.D	Calibration Date:	01/27/11 18:33
Sequence:	1B05605	Injection Date:	02/24/11
Lab Sample ID:	1B05605-CCV2	Injection Time:	14:28

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5715	2904701	3320212		14.3	20
Bromofluorobenzene	A	0.05000	0.05708	1657682	1892300		14.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04818
Instrument: GL-GCVOA2
Calibration: 1028002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04818-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 02/16/11 16:44		
Bromofluorobenzene	0.05000	115	80 - 120	19.556	19.556	0.0000	+/-0.210	
Blank (1B15017-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 02/16/11 17:19		
Bromofluorobenzene	0.05000	111	50 - 150	19.556	19.556	0.0000	+/-0.210	
LCS (1B15017-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 02/16/11 17:54		
Bromofluorobenzene	0.05000	115	50 - 150	19.56	19.556	0.0040	+/-0.210	
LCS Dup (1B15017-BSD1) mg/L				Lab File ID: 006F0601.D		Analyzed: 02/16/11 18:29		
Bromofluorobenzene	0.05000	113	50 - 150	19.56	19.556	0.0040	+/-0.210	
GW0019 (1102135-01) mg/L				Lab File ID: 008F0801.D		Analyzed: 02/16/11 19:38		
Bromofluorobenzene	0.05000	112	50 - 150	19.563	19.556	0.0070	+/-0.210	
GW0020 (1102135-03) mg/L				Lab File ID: 009F0901.D		Analyzed: 02/16/11 20:13		
Bromofluorobenzene	0.05000	113	50 - 150	19.566	19.556	0.0100	+/-0.210	
GW0021 (1102135-05) mg/L				Lab File ID: 010F1001.D		Analyzed: 02/16/11 20:48		
Bromofluorobenzene	0.05000	108	50 - 150	19.57	19.556	0.0140	+/-0.210	
GW0022 (1102141-01) mg/L				Lab File ID: 011F1101.D		Analyzed: 02/16/11 21:22		
Bromofluorobenzene	0.05000	108	50 - 150	19.57	19.556	0.0140	+/-0.210	
GW8002-RB (1102141-04) mg/L				Lab File ID: 012F1201.D		Analyzed: 02/16/11 21:57		
Bromofluorobenzene	0.05000	106	50 - 150	19.573	19.556	0.0170	+/-0.210	
Calibration Check (1B04818-CCV2) ug/mL				Lab File ID: 013F1301.D		Analyzed: 02/16/11 22:33		
Bromofluorobenzene	0.05000	112	80 - 120	19.563	19.556	0.0070	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05519
Instrument: GL-GCVOA2
Calibration: 1028002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05519-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 02/23/11 13:24		
Bromofluorobenzene	0.05000	112	80 - 120	19.573	19.573	0.0000	+/-0.210	
Blank (1B22015-BLK1) mg/L				Lab File ID: 008F0801.D		Analyzed: 02/23/11 16:16		
Bromofluorobenzene	0.05000	108	50 - 150	19.576	19.573	0.0030	+/-0.210	
LCS (1B22015-BS1) mg/L				Lab File ID: 009F0901.D		Analyzed: 02/23/11 16:51		
Bromofluorobenzene	0.05000	110	50 - 150	19.576	19.573	0.0030	+/-0.210	
LCS Dup (1B22015-BSD1) mg/L				Lab File ID: 010F1001.D		Analyzed: 02/23/11 17:25		
Bromofluorobenzene	0.05000	109	50 - 150	19.58	19.573	0.0070	+/-0.210	
GW0011 (1102166-01) mg/L				Lab File ID: 011F1101.D		Analyzed: 02/23/11 17:59		
Bromofluorobenzene	0.05000	116	50 - 150	19.583	19.573	0.0100	+/-0.210	
Matrix Spike (1B22015-MS1) mg/L				Lab File ID: 012F1201.D		Analyzed: 02/23/11 18:33		
Bromofluorobenzene	0.05000	226	50 - 150	19.576	19.573	0.0030	+/-0.210	*
Matrix Spike Dup (1B22015-MSD1) mg/L				Lab File ID: 013F1301.D		Analyzed: 02/23/11 19:08		
Bromofluorobenzene	0.05000	214	50 - 150	19.58	19.573	0.0070	+/-0.210	*
GW0031 (1102166-03) mg/L				Lab File ID: 015F1501.D		Analyzed: 02/23/11 20:17		
Bromofluorobenzene	0.05000	131	50 - 150	19.58	19.573	0.0070	+/-0.210	
GW0010 (1102174-01) mg/L				Lab File ID: 016F1601.D		Analyzed: 02/23/11 20:51		
Bromofluorobenzene	0.05000	116	50 - 150	19.583	19.573	0.0100	+/-0.210	
GW0015 (1102174-03) mg/L				Lab File ID: 017F1701.D		Analyzed: 02/23/11 21:26		
Bromofluorobenzene	0.05000	114	50 - 150	19.59	19.573	0.0170	+/-0.210	
GW0036 (1102174-05) mg/L				Lab File ID: 018F1801.D		Analyzed: 02/23/11 22:00		
Bromofluorobenzene	0.05000	103	50 - 150	19.586	19.573	0.0130	+/-0.210	
GW0037 (1102174-07) mg/L				Lab File ID: 019F1901.D		Analyzed: 02/23/11 22:35		
Bromofluorobenzene	0.05000	105	50 - 150	19.573	19.573	0.0000	+/-0.210	
GW0038 (1102174-09) mg/L				Lab File ID: 020F2001.D		Analyzed: 02/23/11 23:11		
Bromofluorobenzene	0.05000	101	50 - 150	19.566	19.573	-0.0070	+/-0.210	
Calibration Check (1B05519-CCV2) ug/mL				Lab File ID: 021F2101.D		Analyzed: 02/23/11 23:47		
Bromofluorobenzene	0.05000	106	80 - 120	19.563	19.573	-0.0100	+/-0.210	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05605
Instrument: GL-GCVOA2
Calibration: 1028002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05605-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 02/24/11 11:36		
Bromofluorobenzene	0.05000	112	80 - 120	19.596	19.596	0.0000	+/-0.210	
Blank (1B24005-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 02/24/11 12:10		
Bromofluorobenzene	0.05000	112	50 - 150	19.596	19.596	0.0000	+/-0.210	
LCS (1B24005-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 02/24/11 12:45		
Bromofluorobenzene	0.05000	114	50 - 150	19.596	19.596	0.0000	+/-0.210	
LCS Dup (1B24005-BSD1) mg/L				Lab File ID: 006F0601.D		Analyzed: 02/24/11 13:19		
Bromofluorobenzene	0.05000	116	50 - 150	19.6	19.596	0.0040	+/-0.210	
GW0009 (1102179-01) mg/L				Lab File ID: 007F0701.D		Analyzed: 02/24/11 13:54		
Bromofluorobenzene	0.05000	126	50 - 150	19.6	19.596	0.0040	+/-0.210	
Calibration Check (1B05605-CCV2) ug/mL				Lab File ID: 008F0801.D		Analyzed: 02/24/11 14:28		
Bromofluorobenzene	0.05000	114	80 - 120	19.603	19.596	0.0070	+/-0.210	

HOLDING TIME SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0019	02/14/11 16:45	02/15/11 08:45	02/16/11 14:46	N/A	14.00	02/16/11 19:38	2.08	14.00	
GW0020	02/14/11 16:45	02/15/11 08:45	02/16/11 14:46	N/A	14.00	02/16/11 20:13	2.10	14.00	
GW0021	02/14/11 11:17	02/15/11 08:45	02/16/11 14:46	N/A	14.00	02/16/11 20:48	2.35	14.00	
GW0022	02/15/11 13:59	02/16/11 08:30	02/16/11 14:46	N/A	14.00	02/16/11 21:22	1.31	14.00	
GW8002-RB	02/15/11 14:50	02/16/11 08:30	02/16/11 14:46	N/A	14.00	02/16/11 21:57	1.30	14.00	
GW0011	02/16/11 10:45	02/17/11 08:45	02/23/11 11:38	N/A	14.00	02/23/11 17:59	7.26	14.00	
GW0031	02/16/11 15:05	02/17/11 08:45	02/23/11 11:38	N/A	14.00	02/23/11 20:17	7.18	14.00	
GW0010	02/17/11 14:56	02/18/11 08:45	02/23/11 11:38	N/A	14.00	02/23/11 20:51	6.20	14.00	
GW0015	02/17/11 11:10	02/18/11 08:45	02/23/11 11:38	N/A	14.00	02/23/11 21:26	6.39	14.00	
GW0036	02/17/11 10:18	02/18/11 08:45	02/23/11 11:38	N/A	14.00	02/23/11 22:00	6.45	14.00	
GW0037	02/17/11 10:50	02/18/11 08:45	02/23/11 11:38	N/A	14.00	02/23/11 22:35	6.45	14.00	
GW0038	02/17/11 10:50	02/18/11 08:45	02/23/11 11:38	N/A	14.00	02/23/11 23:11	6.47	14.00	
GW0009	02/18/11 13:06	02/19/11 09:30	02/24/11 09:48	N/A	14.00	02/24/11 13:54	5.99	14.00	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B15017-BLK1 File ID: 004F0401.D

Sampled: Prepared: Analyzed: 02/16/11 17:19

Solids: Preparation: 8015GRO Dilution:

Batch: 1B15017 Sequence: 1B04818 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05566	111	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B15017-BS1
File ID: 005F0501.D
Sampled:
Prepared:
Analyzed: 02/16/11 17:54
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1B15017
Sequence: 1B04818
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5778	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05744	115	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B15017-BSD1
File ID: 006F0601.D
Sampled:
Prepared:
Analyzed: 02/16/11 18:29
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1B15017
Sequence: 1B04818
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.6173	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05674	113	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B22015-BLK1 File ID: 008F0801.D

Sampled: Prepared: Analyzed: 02/23/11 16:16

Solids: Preparation: 8015GRO Dilution:

Batch: 1B22015 Sequence: 1B05519 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05386	108	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B22015-BS1
File ID: 009F0901.D
Sampled:
Prepared:
Analyzed: 02/23/11 16:51
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1B22015
Sequence: 1B05519
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5479	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05518	110	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B22015-BSD1
File ID: 010F1001.D
Sampled:
Prepared:
Analyzed: 02/23/11 17:25
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1B22015
Sequence: 1B05519
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5863	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05457	109	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B22015-MS1
File ID: 012F1201.D
Sampled:
Prepared:
Analyzed: 02/23/11 18:33
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1B22015
Sequence: 1B05519
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	27.07	0.0500	0.100	0.150	E

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.1129	226	50 - 150	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B22015-MSD1 File ID: 013F1301.D

Sampled: Prepared: Analyzed: 02/23/11 19:08

Solids: Preparation: 8015GRO Dilution:

Batch: 1B22015 Sequence: 1B05519 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	28.46	0.0500	0.100	0.150	E

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.1072	214	50 - 150	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24005-BLK1 File ID: 004F0401.D

Sampled: Prepared: Analyzed: 02/24/11 12:10

Solids: Preparation: 8015GRO Dilution:

Batch: 1B24005 Sequence: 1B05605 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05584	112	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B24005-BS1
File ID: 005F0501.D
Sampled:
Prepared:
Analyzed: 02/24/11 12:45
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1B24005
Sequence: 1B05605
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5498	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05706	114	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B24005-BSD1
File ID: 006F0601.D
Sampled:
Prepared:
Analyzed: 02/24/11 13:19
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1B24005
Sequence: 1B05605
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5995	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05780	116	50 - 150	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Instrument: GL-GCVOA2

Analyte	MDL	MRL	Units	Method
Gasoline Range Organics (C6-C10)	0.0500	0.150	mg/L	SW8015B

SW8015B (DRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03804	Instrument:	GL-GCFID
Calibration:	1038002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B03804-CAL6	003B0301.D	02/04/11 11:28
Cal Standard	1B03804-CAL5	004B0401.D	02/04/11 12:02
Cal Standard	1B03804-CAL4	005B0501.D	02/04/11 12:35
Cal Standard	1B03804-CAL3	006B0601.D	02/04/11 13:09
Cal Standard	1B03804-CAL2	007B0701.D	02/04/11 13:42
Cal Standard	1B03804-CAL1	008B0801.D	02/04/11 14:16
Initial Cal Check	1B03804-ICV1	009B0901.D	02/04/11 14:50

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04904	Instrument:	GL-GCFID
Calibration:	1038002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04904-CCV1	003B0301.D	02/17/11 15:41
Blank	1B15024-BLK1	004B0401.D	02/17/11 16:15
LCS	1B15024-BS1	005B0501.D	02/17/11 16:50
LCS Dup	1B15024-BSD1	006B0601.D	02/17/11 17:24
GW0019	1102135-01	007B0701.D	02/17/11 17:58
GW0020	1102135-03	008B0801.D	02/17/11 18:31
GW0021	1102135-05	009B0901.D	02/17/11 19:05
Calibration Check	1B04904-CCV2	010B1001.D	02/17/11 19:39

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05210	Instrument:	GL-GCFID
Calibration:	1038002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B05210-CCV1	003B0301.D	02/18/11 11:41
GW0022	1102141-01	004B0401.D	02/18/11 12:15
GW8002-RB	1102141-04	005B0501.D	02/18/11 12:49
Calibration Check	1B05210-CCV2	016B1601.D	02/18/11 19:03

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05511	Instrument:	GL-GCFID2
Calibration:	1055002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B05511-CAL6	003F0301.D	02/23/11 12:03
Cal Standard	1B05511-CAL5	004F0401.D	02/23/11 12:37
Cal Standard	1B05511-CAL4	005F0501.D	02/23/11 13:10
Cal Standard	1B05511-CAL3	006F0601.D	02/23/11 13:44
Cal Standard	1B05511-CAL2	007F0701.D	02/23/11 14:17
Cal Standard	1B05511-CAL1	008F0801.D	02/23/11 14:50
Initial Cal Check	1B05511-ICV1	009F0901.D	02/23/11 15:23

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05513	Instrument:	GL-GCFID2
Calibration:	1055002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B05513-CCV1	010F1001.D	02/23/11 15:57
Blank	1B18020-BLK1	020F2001.D	02/23/11 21:28
LCS	1B18020-BS1	021F2101.D	02/23/11 22:01
GW0011	1102166-01	022F2201.D	02/23/11 22:35
GW0011	1B18020-MS1	023F2301.D	02/23/11 23:09
GW0011	1B18020-MSD1	024F2401.D	02/23/11 23:42
GW0031	1102166-03	025F2501.D	02/24/11 00:16
GW0010	1102174-01	026F2601.D	02/24/11 00:49
GW0015	1102174-03	027F2701.D	02/24/11 01:23
GW0036	1102174-05	028F2801.D	02/24/11 01:57
GW0037	1102174-07	029F2901.D	02/24/11 02:30
GW0038	1102174-09	030F3001.D	02/24/11 03:04
GW0009	1102179-01	031F3101.D	02/24/11 03:37
Calibration Check	1B05513-CCV2	032F3201.D	02/24/11 04:11

ANALYSIS DATA SHEET

GW0019

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-01	File ID:	007B0701.D
Sampled:	02/14/11 16:45	Prepared:	02/16/11 16:18	Analyzed:	02/17/11 17:58
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B15024	Sequence:	1B04904	Calibration:	1038002
Instrument:	GL-GCFID				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	4.48	0.0943	0.0943	0.0943	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01654	87.6	30 - 140	

ANALYSIS DATA SHEET

GW0020

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-03	File ID:	008B0801.D
Sampled:	02/14/11 16:45	Prepared:	02/16/11 16:18	Analyzed:	02/17/11 18:31
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B15024	Sequence:	1B04904	Calibration:	1038002
Instrument:	GL-GCFID				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	4.05	0.0943	0.0943	0.0943	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01424	75.4	30 - 140	

ANALYSIS DATA SHEET

GW0021

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-05	File ID:	009B0901.D
Sampled:	02/14/11 11:17	Prepared:	02/16/11 16:18	Analyzed:	02/17/11 19:05
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B15024	Sequence:	1B04904	Calibration:	1038002
Instrument:	GL-GCFID				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.0943	0.0943	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01112	58.9	30 - 140	

ANALYSIS DATA SHEET

GW0022

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-01	File ID:	004B0401.D
Sampled:	02/15/11 13:59	Prepared:	02/17/11 16:01	Analyzed:	02/18/11 12:15
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B15024	Sequence:	1B05210	Calibration:	1038002
Instrument:	GL-GCFID				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.0943	0.0943	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01418	75.1	30 - 140	

ANALYSIS DATA SHEET

GW8002-RB

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-04	File ID:	005B0501.D
Sampled:	02/15/11 14:50	Prepared:	02/17/11 16:01	Analyzed:	02/18/11 12:49
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B15024	Sequence:	1B05210	Calibration:	1038002
Instrument:	GL-GCFID				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0926	0.0926	0.0926	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01852	0.01484	80.1	30 - 140	

ANALYSIS DATA SHEET

GW0011

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-01	File ID:	022F2201.D
Sampled:	02/16/11 10:45	Prepared:	02/21/11 10:11	Analyzed:	02/23/11 22:35
Solids:		Preparation:	EXT_3510	Dilution:	20
Batch:	1B18020	Sequence:	1B05513	Calibration:	1055002
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	28.2	2.02	2.02	2.02	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02020	0.02225	110	30 - 140	

ANALYSIS DATA SHEET

GW0031

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-03	File ID:	025F2501.D
Sampled:	02/16/11 15:05	Prepared:	02/21/11 10:11	Analyzed:	02/24/11 00:16
Solids:		Preparation:	EXT_3510	Dilution:	2
Batch:	1B18020	Sequence:	1B05513	Calibration:	1055002
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	4.14	0.192	0.192	0.192	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01768	91.9	30 - 140	

ANALYSIS DATA SHEET

GW0010

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-01	File ID:	026F2601.D
Sampled:	02/17/11 14:56	Prepared:	02/21/11 10:11	Analyzed:	02/24/11 00:49
Solids:		Preparation:	EXT_3510	Dilution:	20
Batch:	1B18020	Sequence:	1B05513	Calibration:	1055002
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	27.3	1.88	1.88	1.88	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01878	0.01757	93.5	30 - 140	

ANALYSIS DATA SHEET

GW0015

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-03	File ID:	027F2701.D
Sampled:	02/17/11 11:10	Prepared:	02/21/11 10:11	Analyzed:	02/24/11 01:23
Solids:		Preparation:	EXT_3510	Dilution:	10
Batch:	1B18020	Sequence:	1B05513	Calibration:	1055002
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	15.5	0.935	0.935	0.935	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01869	0.01775	95.0	30 - 140	

ANALYSIS DATA SHEET

GW0036

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-05	File ID:	028F2801.D
Sampled:	02/17/11 10:18	Prepared:	02/21/11 10:11	Analyzed:	02/24/11 01:57
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B18020	Sequence:	1B05513	Calibration:	1055002
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0952	0.0952	0.0952	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01905	0.01720	90.3	30 - 140	

ANALYSIS DATA SHEET

GW0037

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-07	File ID:	029F2901.D
Sampled:	02/17/11 10:50	Prepared:	02/21/11 10:11	Analyzed:	02/24/11 02:30
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B18020	Sequence:	1B05513	Calibration:	1055002
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.0943	0.0943	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01625	86.1	30 - 140	

ANALYSIS DATA SHEET

GW0038

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-09	File ID:	030F3001.D
Sampled:	02/17/11 10:50	Prepared:	02/21/11 10:11	Analyzed:	02/24/11 03:04
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1B18020	Sequence:	1B05513	Calibration:	1055002
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0952	0.0952	0.0952	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01905	0.01723	90.4	30 - 140	

ANALYSIS DATA SHEET

GW0009

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102179-01	File ID:	031F3101.D
Sampled:	02/18/11 13:06	Prepared:	02/21/11 10:11	Analyzed:	02/24/11 03:37
Solids:		Preparation:	EXT_3510	Dilution:	20
Batch:	1B18020	Sequence:	1B05513	Calibration:	1055002
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	32.5	1.89	1.89	1.89	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01792	95.0	30 - 140	

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15024	Laboratory ID:	1B15024-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.5772	57.7	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.5218	52.2	10.1	50	50 - 150

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B18020	Laboratory ID:	1B18020-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.5368	53.7	50 - 150

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8015B

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B18020

% Solids:

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	28.21	24.77	-343	*	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.053	28.51	29.2	14.0	*	50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B15024 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0019	1102135-01	02/16/11 16:18	1,060.00	1.00
GW0020	1102135-03	02/16/11 16:18	1,060.00	1.00
GW0021	1102135-05	02/16/11 16:18	1,060.00	1.00
GW0022	1102141-01	02/17/11 16:01	1,060.00	1.00
GW8002-RB	1102141-04	02/17/11 16:01	1,080.00	1.00
Blank	1B15024-BLK1	02/16/11 16:18	1,000.00	1.00
LCS	1B15024-BS1	02/16/11 16:18	1,000.00	1.00
LCS Dup	1B15024-BSD1	02/16/11 16:18	1,000.00	1.00

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B18020 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0011	1102166-01	02/21/11 10:11	990.00	1.00
GW0031	1102166-03	02/21/11 10:11	1,040.00	1.00
GW0010	1102174-01	02/21/11 10:11	1,065.00	1.00
GW0015	1102174-03	02/21/11 10:11	1,070.00	1.00
GW0036	1102174-05	02/21/11 10:11	1,050.00	1.00
GW0037	1102174-07	02/21/11 10:11	1,060.00	1.00
GW0038	1102174-09	02/21/11 10:11	1,050.00	1.00
GW0009	1102179-01	02/21/11 10:11	1,060.00	1.00
Blank	1B18020-BLK1	02/21/11 10:11	1,000.00	1.00
LCS	1B18020-BS1	02/21/11 10:11	1,000.00	1.00
GW0011	1B18020-MS1	02/21/11 10:11	1,000.00	1.00
GW0011	1B18020-MSD1	02/21/11 10:11	950.00	1.00

INITIAL CALIBRATION STANDARDS

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03804	Instrument:	GL-GCFID
Calibration:	1038002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10K0188	DRO ICAL6@100ppm	1B03804-CAL6	003B0301.D	02/04/11 11:28
10K0189	DRO ICAL5@250ppm	1B03804-CAL5	004B0401.D	02/04/11 12:02
10K0190	DRO ICAL4@500ppm	1B03804-CAL4	005B0501.D	02/04/11 12:35
10K0192	DRO ICAL3@1000ppm	1B03804-CAL3	006B0601.D	02/04/11 13:09
10K0193	DRO ICAL2@2500ppm	1B03804-CAL2	007B0701.D	02/04/11 13:42
10K0194	DRO ICAL1@5000ppm	1B03804-CAL1	008B0801.D	02/04/11 14:16

INITIAL CALIBRATION STANDARDS

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05511	Instrument:	GL-GCFID2
Calibration:	1055002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10K0188	DRO ICAL6@100ppm	1B05511-CAL6	003F0301.D	02/23/11 12:03
10K0189	DRO ICAL5@250ppm	1B05511-CAL5	004F0401.D	02/23/11 12:37
10K0190	DRO ICAL4@500ppm	1B05511-CAL4	005F0501.D	02/23/11 13:10
10K0192	DRO ICAL3@1000ppm	1B05511-CAL3	006F0601.D	02/23/11 13:44
10K0193	DRO ICAL2@2500ppm	1B05511-CAL2	007F0701.D	02/23/11 14:17
10K0194	DRO ICAL1@5000ppm	1B05511-CAL1	008F0801.D	02/23/11 14:50

INITIAL CALIBRATION DATA

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038002	Instrument:	GL-GCFID
Matrix:	Water	Calibration Date:	2/4/2011 11:28:54AM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Diesel Range Organics (C10-C28)	100	1351.87	250	1499.38	500	1574.304	1000	1676.537	2500	1883.202	5000	1703.416
o-Terphenyl	5	1984.4	12.5	1928.48	25	1883.4	50	1943.72	125	1932.104	250	1921.648

INITIAL CALIBRATION DATA (Continued)

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1038002	Instrument:	GL-GCFID
Matrix:	Water	Calibration Date:	2/4/2011 11:28:54AM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	1614.785	11.34472	6.25	0			20	
o-Terphenyl	1932.292	1.695087	11.31367	0.0744468			20	

INITIAL CALIBRATION DATA

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1055002	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Date:	2/23/2011 12:03:48PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Diesel Range Organics (C10-C28)	100	1855.71	250	1817.04	500	1796.666	1000	1843.481	2500	2105.9	5000	1756.688
o-Terphenyl	5	2068.4	12.5	2082.56	25	2153.56	50	2195.82	125	2197.272	250	2265.896

INITIAL CALIBRATION DATA (Continued)

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1055002	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Date:	2/23/2011 12:03:48PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	1862.581	6.673355	4.54	1.997184E-02			20	
o-Terphenyl	2160.585	3.482875	8.299667	0.1498473			20	

INITIAL CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	009B0901.D	Calibration Date:	02/04/11 11:28
Sequence:	1B03804	Injection Date:	02/04/11
Lab Sample ID:	1B03804-ICV1	Injection Time:	14:50

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1178	1614.785	1901.657		17.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1055002
Lab File ID:	009F0901.D	Calibration Date:	02/23/11 12:03
Sequence:	1B05511	Injection Date:	02/23/11
Lab Sample ID:	1B05511-ICV1	Injection Time:	15:23

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1074	1862.581	2000.49		7.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	003B0301.D	Calibration Date:	02/04/11 11:28
Sequence:	1B04904	Injection Date:	02/17/11
Lab Sample ID:	1B04904-CCV1	Injection Time:	15:41

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1039	1614.785	1677.532		3.9	20
o-Terphenyl	A	50.00	45.70	1932.292	1766.06		-8.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	010B1001.D	Calibration Date:	02/04/11 11:28
Sequence:	1B04904	Injection Date:	02/17/11
Lab Sample ID:	1B04904-CCV2	Injection Time:	19:39

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1094	1614.785	1766.171		9.4	20
o-Terphenyl	A	50.00	48.76	1932.292	1884.6		-2.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	003B0301.D	Calibration Date:	02/04/11 11:28
Sequence:	1B05210	Injection Date:	02/18/11
Lab Sample ID:	1B05210-CCV1	Injection Time:	11:41

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1038	1614.785	1676.326		3.8	20
o-Terphenyl	A	50.00	45.39	1932.292	1754.24		-9.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID	Calibration:	1038002
Lab File ID:	016B1601.D	Calibration Date:	02/04/11 11:28
Sequence:	1B05210	Injection Date:	02/18/11
Lab Sample ID:	1B05210-CCV2	Injection Time:	19:03

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1109	1614.785	1790.984		10.9	20
o-Terphenyl	A	50.00	54.07	1932.292	2089.62		8.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1055002
Lab File ID:	010F1001.D	Calibration Date:	02/23/11 12:03
Sequence:	1B05513	Injection Date:	02/23/11
Lab Sample ID:	1B05513-CCV1	Injection Time:	15:57

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	946.1	1862.581	1762.193		-5.4	20
o-Terphenyl	A	50.00	50.93	2160.585	2200.76		1.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1055002
Lab File ID:	032F3201.D	Calibration Date:	02/23/11 12:03
Sequence:	1B05513	Injection Date:	02/24/11
Lab Sample ID:	1B05513-CCV2	Injection Time:	04:11

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	976.7	1862.581	1819.173		-2.3	20
o-Terphenyl	A	50.00	52.17	2160.585	2254.26		4.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04904
Instrument: GL-GCFID
Calibration: 1038002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B04904-CCV1) mg/L				Lab File ID: 003B0301.D		Analyzed: 02/17/11 15:41		
o-Terphenyl	50.00	91.4	80 - 120	11.29	11.29	0.0000	+/-0.050	
Blank (1B15024-BLK1) mg/L				Lab File ID: 004B0401.D		Analyzed: 02/17/11 16:15		
o-Terphenyl	0.02000	58.8	30 - 140	11.31	11.29	0.0200	+/-0.050	
LCS (1B15024-BS1) mg/L				Lab File ID: 005B0501.D		Analyzed: 02/17/11 16:50		
o-Terphenyl	0.02000	66.5	30 - 140	11.293	11.29	0.0030	+/-0.050	
LCS Dup (1B15024-BSD1) mg/L				Lab File ID: 006B0601.D		Analyzed: 02/17/11 17:24		
o-Terphenyl	0.02000	63.9	30 - 140	11.31	11.29	0.0200	+/-0.050	
GW0019 (1102135-01) mg/L				Lab File ID: 007B0701.D		Analyzed: 02/17/11 17:58		
o-Terphenyl	0.01887	87.6	30 - 140	11.293	11.29	0.0030	+/-0.050	
GW0020 (1102135-03) mg/L				Lab File ID: 008B0801.D		Analyzed: 02/17/11 18:31		
o-Terphenyl	0.01887	75.4	30 - 140	11.283	11.29	-0.0070	+/-0.050	
GW0021 (1102135-05) mg/L				Lab File ID: 009B0901.D		Analyzed: 02/17/11 19:05		
o-Terphenyl	0.01887	58.9	30 - 140	11.293	11.29	0.0030	+/-0.050	
Calibration Check (1B04904-CCV2) mg/L				Lab File ID: 010B1001.D		Analyzed: 02/17/11 19:39		
o-Terphenyl	50.00	97.5	80 - 120	11.273	11.29	-0.0170	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05210
Instrument: GL-GCFID
Calibration: 1038002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05210-CCV1) mg/L				Lab File ID: 003B0301.D		Analyzed: 02/18/11 11:41		
o-Terphenyl	50.00	90.8	80 - 120	11.296	11.296	0.0000	+/-0.050	
GW0022 (1102141-01) mg/L				Lab File ID: 004B0401.D		Analyzed: 02/18/11 12:15		
o-Terphenyl	0.01887	75.1	30 - 140	11.303	11.296	0.0070	+/-0.050	
GW8002-RB (1102141-04) mg/L				Lab File ID: 005B0501.D		Analyzed: 02/18/11 12:49		
o-Terphenyl	0.01852	80.1	30 - 140	11.306	11.296	0.0100	+/-0.050	
Calibration Check (1B05210-CCV2) mg/L				Lab File ID: 016B1601.D		Analyzed: 02/18/11 19:03		
o-Terphenyl	50.00	108	80 - 120	11.276	11.296	-0.0200	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05513
Instrument: GL-GCFID2
Calibration: 1055002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05513-CCV1) mg/L				Lab File ID: 010F1001.D		Analyzed: 02/23/11 15:57		
o-Terphenyl	50.00	102	80 - 120	8.3	8.3	0.0000	+/-0.050	
Blank (1B18020-BLK1) mg/L				Lab File ID: 020F2001.D		Analyzed: 02/23/11 21:28		
o-Terphenyl	0.02000	88.5	30 - 140	8.296	8.3	-0.0040	+/-0.050	
LCS (1B18020-BS1) mg/L				Lab File ID: 021F2101.D		Analyzed: 02/23/11 22:01		
o-Terphenyl	0.02000	73.9	30 - 140	8.29	8.3	-0.0100	+/-0.050	
GW0011 (1102166-01) mg/L				Lab File ID: 022F2201.D		Analyzed: 02/23/11 22:35		
o-Terphenyl	0.02020	110	30 - 140	8.286	8.3	-0.0140	+/-0.050	
Matrix Spike (1B18020-MS1) mg/L				Lab File ID: 023F2301.D		Analyzed: 02/23/11 23:09		
o-Terphenyl	0.02000	53.8	30 - 140	8.283	8.3	-0.0170	+/-0.050	
Matrix Spike Dup (1B18020-MSD1) mg/L				Lab File ID: 024F2401.D		Analyzed: 02/23/11 23:42		
o-Terphenyl	0.02105	64.3	30 - 140	8.283	8.3	-0.0170	+/-0.050	
GW0031 (1102166-03) mg/L				Lab File ID: 025F2501.D		Analyzed: 02/24/11 00:16		
o-Terphenyl	0.01923	91.9	30 - 140	8.283	8.3	-0.0170	+/-0.050	
GW0010 (1102174-01) mg/L				Lab File ID: 026F2601.D		Analyzed: 02/24/11 00:49		
o-Terphenyl	0.01878	93.5	30 - 140	8.283	8.3	-0.0170	+/-0.050	
GW0015 (1102174-03) mg/L				Lab File ID: 027F2701.D		Analyzed: 02/24/11 01:23		
o-Terphenyl	0.01869	95.0	30 - 140	8.283	8.3	-0.0170	+/-0.050	
GW0036 (1102174-05) mg/L				Lab File ID: 028F2801.D		Analyzed: 02/24/11 01:57		
o-Terphenyl	0.01905	90.3	30 - 140	8.29	8.3	-0.0100	+/-0.050	
GW0037 (1102174-07) mg/L				Lab File ID: 029F2901.D		Analyzed: 02/24/11 02:30		
o-Terphenyl	0.01887	86.1	30 - 140	8.29	8.3	-0.0100	+/-0.050	
GW0038 (1102174-09) mg/L				Lab File ID: 030F3001.D		Analyzed: 02/24/11 03:04		
o-Terphenyl	0.01905	90.4	30 - 140	8.29	8.3	-0.0100	+/-0.050	
GW0009 (1102179-01) mg/L				Lab File ID: 031F3101.D		Analyzed: 02/24/11 03:37		
o-Terphenyl	0.01887	95.0	30 - 140	8.286	8.3	-0.0140	+/-0.050	
Calibration Check (1B05513-CCV2) mg/L				Lab File ID: 032F3201.D		Analyzed: 02/24/11 04:11		
o-Terphenyl	50.00	104	80 - 120	8.29	8.3	-0.0100	+/-0.050	

HOLDING TIME SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0019	02/14/11 16:45	02/15/11 08:45	02/16/11 16:18	1.94	7.00	02/17/11 17:58	1.07	40.00	
GW0020	02/14/11 16:45	02/15/11 08:45	02/16/11 16:18	1.94	7.00	02/17/11 18:31	1.09	40.00	
GW0021	02/14/11 11:17	02/15/11 08:45	02/16/11 16:18	2.17	7.00	02/17/11 19:05	1.12	40.00	
GW0022	02/15/11 13:59	02/16/11 08:30	02/17/11 16:01	2.08	7.00	02/18/11 12:15	0.84	40.00	
GW8002-RB	02/15/11 14:50	02/16/11 08:30	02/17/11 16:01	2.05	7.00	02/18/11 12:49	0.87	40.00	
GW0011	02/16/11 10:45	02/17/11 08:45	02/21/11 10:11	4.93	7.00	02/23/11 22:35	2.52	40.00	
GW0031	02/16/11 15:05	02/17/11 08:45	02/21/11 10:11	4.75	7.00	02/24/11 00:16	2.59	40.00	
GW0010	02/17/11 14:56	02/18/11 08:45	02/21/11 10:11	3.76	7.00	02/24/11 00:49	2.61	40.00	
GW0015	02/17/11 11:10	02/18/11 08:45	02/21/11 10:11	3.92	7.00	02/24/11 01:23	2.63	40.00	
GW0036	02/17/11 10:18	02/18/11 08:45	02/21/11 10:11	3.95	7.00	02/24/11 01:57	2.66	40.00	
GW0037	02/17/11 10:50	02/18/11 08:45	02/21/11 10:11	3.93	7.00	02/24/11 02:30	2.68	40.00	
GW0038	02/17/11 10:50	02/18/11 08:45	02/21/11 10:11	3.93	7.00	02/24/11 03:04	2.70	40.00	
GW0009	02/18/11 13:06	02/19/11 09:30	02/21/11 10:11	2.84	7.00	02/24/11 03:37	2.73	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B15024-BLK1 File ID: 004B0401.D

Sampled: Prepared: Analyzed: 02/17/11 16:15

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B15024 Sequence: 1B04904 Calibration: 1038002 Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.100	0.100	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01176	58.8	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B15024-BS1
File ID: 005B0501.D
Sampled:
Prepared:
Analyzed: 02/17/11 16:50
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1B15024
Sequence: 1B04904
Calibration: 1038002
Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.5772	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01329	66.5	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B15024-BSD1
File ID: 006B0601.D
Sampled:
Prepared:
Analyzed: 02/17/11 17:24
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1B15024
Sequence: 1B04904
Calibration: 1038002
Instrument: GL-GCFID

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.5218	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01278	63.9	30 - 140	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B18020-BLK1 File ID: 020F2001.D

Sampled: Prepared: Analyzed: 02/23/11 21:28

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B18020 Sequence: 1B05513 Calibration: 1055002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.100	0.100	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01769	88.5	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B18020-BS1
File ID: 021F2101.D
Sampled:
Prepared:
Analyzed: 02/23/11 22:01
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1B18020
Sequence: 1B05513
Calibration: 1055002
Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.5368	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01478	73.9	30 - 140	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B18020-MS1 File ID: 023F2301.D

Sampled: Prepared: Analyzed: 02/23/11 23:09

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B18020 Sequence: 1B05513 Calibration: 1055002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	24.77	2.00	2.00	2.00	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01077	53.8	30 - 140	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B18020-MSD1 File ID: 024F2401.D

Sampled: Prepared: Analyzed: 02/23/11 23:42

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B18020 Sequence: 1B05513 Calibration: 1055002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	28.51	2.11	2.11	2.11	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02105	0.01353	64.3	30 - 140	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_004

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** GL-GCFID

Analyte	MDL	MRL	Units	Method
Diesel Range Organics (C10-C28)	0.100	0.100	mg/L	SW8015B

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_004

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** GL-GCFID2

Analyte	MDL	MRL	Units	Method
Diesel Range Organics (C10-C28)	0.100	0.100	mg/L	SW8015B

Data for SW8011 Forms

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 0L34409
Instrument: GL-ECD2
Calibration: 0344003

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0L34409-CAL1	002R0101.D	12/09/10 14:14
Cal Standard	0L34409-CAL1	002F0101.D	12/09/10 14:14
Cal Standard	0L34409-CAL2	003F0101.D	12/09/10 14:35
Cal Standard	0L34409-CAL2	003R0101.D	12/09/10 14:35
Cal Standard	0L34409-CAL3	004F0101.D	12/09/10 14:56
Cal Standard	0L34409-CAL3	004R0101.D	12/09/10 14:56
Cal Standard	0L34409-CAL4	005R0101.D	12/09/10 15:17
Cal Standard	0L34409-CAL4	005F0101.D	12/09/10 15:17
Cal Standard	0L34409-CAL5	006R0101.D	12/09/10 15:38
Cal Standard	0L34409-CAL5	006F0101.D	12/09/10 15:38
Cal Standard	0L34409-CAL6	007F0101.D	12/09/10 16:00
Cal Standard	0L34409-CAL6	007R0101.D	12/09/10 16:00
Cal Standard	0L34409-CAL7	008F0101.D	12/09/10 16:21
Cal Standard	0L34409-CAL7	008R0101.D	12/09/10 16:21
Cal Standard	0L34409-CAL8	009F0101.D	12/09/10 16:42
Cal Standard	0L34409-CAL8	009R0101.D	12/09/10 16:42
Initial Cal Check	0L34409-ICV1	010R0101.D	12/09/10 17:04
Initial Cal Check	0L34409-ICV1	010F0101.D	12/09/10 17:04

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05305	Instrument:	GL-ECD2
Calibration:	0344003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B05305-CCV1	002F0101.D	02/21/11 12:03
Calibration Check	1B05305-CCV1	002R0101.D	02/21/11 12:03
LCS	1B21009-BS1	004R0101.D	02/21/11 12:45
LCS	1B21009-BS1	004F0101.D	02/21/11 12:45
Blank	1B21009-BLK1	005R0101.D	02/21/11 13:07
GW0019	1102135-01	006F0101.D	02/21/11 13:28
GW0019	1102135-01	006R0101.D	02/21/11 13:28
GW0020	1102135-03	007R0101.D	02/21/11 13:49
GW0020	1102135-03	007F0101.D	02/21/11 13:49
GW0021	1102135-05	008R0101.D	02/21/11 14:10
GW0021	1102135-05	008F0101.D	02/21/11 14:10
GW0022	1102141-01	009R0101.D	02/21/11 14:32
GW0011	1102166-01	010F0101.D	02/21/11 14:53
GW0011	1102166-01	010R0101.D	02/21/11 14:53
GW0011	1B21009-MS1	011F0101.D	02/21/11 15:14
GW0011	1B21009-MS1	011R0101.D	02/21/11 15:14
GW0011	1B21009-MSD1	012R0101.D	02/21/11 15:35
GW0011	1B21009-MSD1	012F0101.D	02/21/11 15:35
GW0031	1102166-03	013F0101.D	02/21/11 15:57
GW0031	1102166-03	013R0101.D	02/21/11 15:57
GW0010	1102174-01	014R0101.D	02/21/11 16:18
GW0010	1102174-01	014F0101.D	02/21/11 16:18
GW0015	1102174-03	015R0101.D	02/21/11 16:39
GW0015	1102174-03	015F0101.D	02/21/11 16:39
GW0036	1102174-05	016F0101.D	02/21/11 17:00
GW0037	1102174-07	017R0101.D	02/21/11 17:22
Calibration Check	1B05305-CCV2	018F0101.D	02/21/11 17:43
Calibration Check	1B05305-CCV2	018R0101.D	02/21/11 17:43
GW0038	1102174-09	019R0101.D	02/21/11 18:04
GW0009	1102179-01	020R0101.D	02/21/11 18:25
GW0009	1102179-01	020F0101.D	02/21/11 18:25
GW0019	1102135-01RE1	021R0101.D	02/21/11 18:46

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05305	Instrument:	GL-ECD2
Calibration:	0344003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0019	1102135-01RE1	021F0101.D	02/21/11 18:46
GW0031	1102166-03RE1	023F0101.D	02/21/11 19:28
GW0031	1102166-03RE1	023R0101.D	02/21/11 19:28
GW0010	1102174-01RE1	024F0101.D	02/21/11 19:49
GW0010	1102174-01RE1	024R0101.D	02/21/11 19:49
Calibration Check	1B05305-CCV3	027R0101.D	02/21/11 20:53
Calibration Check	1B05305-CCV3	027F0101.D	02/21/11 20:53

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05310
Instrument: GL-ECD2
Calibration: 0344003

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B05310-CCV1	002R0101.D	02/22/11 10:41
Calibration Check	1B05310-CCV1	002F0101.D	02/22/11 10:41
GW0011	1102166-01RE1	004R0101.D	02/22/11 11:23
GW0011	1102166-01RE1	004F0101.D	02/22/11 11:23
GW0015	1102174-03RE1	005R0101.D	02/22/11 11:44
GW0015	1102174-03RE1	005F0101.D	02/22/11 11:44
GW0009	1102179-01RE1	006R0101.D	02/22/11 12:05
GW0009	1102179-01RE1	006F0101.D	02/22/11 12:05
Calibration Check	1B05310-CCV2	007R0101.D	02/22/11 12:26
Calibration Check	1B05310-CCV2	007F0101.D	02/22/11 12:26

ANALYSIS DATA SHEET

GW0019

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-01	File ID:	006R0101.D
Sampled:	02/14/11 16:45	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 13:28
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B21009	Sequence:	1B05305	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.998	0.00968	0.0194	0.0290	E

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0019

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-01RE1	File ID:	021F0101.D
Sampled:	02/14/11 16:45	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 18:46
Solids:		Preparation:	EDB	Dilution:	2
Batch:	1B21009	Sequence:	1B05305	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.864	0.0194	0.0387	0.0581	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0020

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-03	File ID:	007R0101.D
Sampled:	02/14/11 16:45	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 13:49
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B21009	Sequence:	1B05305	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.950	0.00951	0.0190	0.0285	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0021

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102135-05	File ID:	008R0101.D
Sampled:	02/14/11 11:17	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 14:10
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B21009	Sequence:	1B05305	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.353	0.00994	0.0199	0.0298	

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0022

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102141-01	File ID:	009R0101.D
Sampled:	02/15/11 13:59	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 14:32
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B21009	Sequence:	1B05305	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00964	0.0193	0.0289	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0011

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-01	File ID:	010F0101.D
Sampled:	02/16/11 10:45	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 14:53
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B21009	Sequence:	1B05305	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	118	0.00942	0.0188	0.0283	PE

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0011

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-01RE1	File ID:	004F0101.D
Sampled:	02/16/11 10:45	Prepared:	02/21/11 10:52	Analyzed:	02/22/11 11:23
Solids:		Preparation:	EDB	Dilution:	200
Batch:	1B21009	Sequence:	1B05310	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	100	1.88	3.77	5.65	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0031

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-03	File ID:	013R0101.D
Sampled:	02/16/11 15:05	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 15:57
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B21009	Sequence:	1B05305	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	16.1	0.00953	0.0191	0.0286	PE

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0031

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102166-03RE1	File ID:	023F0101.D
Sampled:	02/16/11 15:05	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 19:28
Solids:		Preparation:	EDB	Dilution:	20
Batch:	1B21009	Sequence:	1B05305	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	10.3	0.191	0.381	0.572	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0010

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-01	File ID:	014R0101.D
Sampled:	02/17/11 14:56	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 16:18
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B21009	Sequence:	1B05305	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	12.8	0.00942	0.0188	0.0283	E

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0010

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-01RE1	File ID:	024F0101.D
Sampled:	02/17/11 14:56	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 19:49
Solids:		Preparation:	EDB	Dilution:	20
Batch:	1B21009	Sequence:	1B05305	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	10.6	0.188	0.377	0.565	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0015

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-03	File ID:	015F0101.D
Sampled:	02/17/11 11:10	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 16:39
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B21009	Sequence:	1B05305	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	78.8	0.00956	0.0191	0.0287	PE

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0015

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-03RE1	File ID:	005F0101.D
Sampled:	02/17/11 11:10	Prepared:	02/21/11 10:52	Analyzed:	02/22/11 11:44
Solids:		Preparation:	EDB	Dilution:	200
Batch:	1B21009	Sequence:	1B05310	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	76.7	1.91	3.83	5.74	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0036

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-05	File ID:	016F0101.D
Sampled:	02/17/11 10:18	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 17:00
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B21009	Sequence:	1B05305	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00964	0.0193	0.0289	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0037

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-07	File ID:	017R0101.D
Sampled:	02/17/11 10:50	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 17:22
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B21009	Sequence:	1B05305	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00943	0.0189	0.0283	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0038

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102174-09	File ID:	019R0101.D
Sampled:	02/17/11 10:50	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 18:04
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B21009	Sequence:	1B05305	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00963	0.0193	0.0289	U

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0009

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102179-01	File ID:	020F0101.D
Sampled:	02/18/11 13:06	Prepared:	02/21/11 10:52	Analyzed:	02/21/11 18:25
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1B21009	Sequence:	1B05305	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	59.8	0.00952	0.0190	0.0285	PE

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0009

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_004
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102179-01RE1	File ID:	006F0101.D
Sampled:	02/18/11 13:06	Prepared:	02/21/11 10:52	Analyzed:	02/22/11 12:05
Solids:		Preparation:	EDB	Dilution:	100
Batch:	1B21009	Sequence:	1B05310	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	59.3	0.952	1.90	2.85	D

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B21009	Laboratory ID:	1B21009-BS1
Preparation:	EDB	Initial/Final:	35 mL / 35 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.5447	109	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5594	112	70 - 130

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW8011

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B21009

% Solids:

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
1,2-Dibromoethane	0.4838	118.3	140.8	4660	*	70 - 130
1,2-Dibromoethane [2C]	0.4838	827.0	1045	45100	*	70 - 130

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.4963	141.6	4700	0.568	*	20	70 - 130
1,2-Dibromoethane [2C]	0.4963	1051	45200	0.600	*	20	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B21009 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0019	1102135-01	02/21/11 10:52	36.15	35.00
GW0019	1102135-01RE1	02/21/11 10:52	36.15	35.00
GW0020	1102135-03	02/21/11 10:52	36.82	35.00
GW0021	1102135-05	02/21/11 10:52	35.20	35.00
GW0022	1102141-01	02/21/11 10:52	36.29	35.00
GW0011	1102166-01	02/21/11 10:52	37.14	35.00
GW0011	1102166-01RE1	02/21/11 10:52	37.14	35.00
GW0031	1102166-03	02/21/11 10:52	36.74	35.00
GW0031	1102166-03RE1	02/21/11 10:52	36.74	35.00
GW0010	1102174-01	02/21/11 10:52	37.15	35.00
GW0010	1102174-01RE1	02/21/11 10:52	37.15	35.00
GW0015	1102174-03	02/21/11 10:52	36.60	35.00
GW0015	1102174-03RE1	02/21/11 10:52	36.60	35.00
GW0036	1102174-05	02/21/11 10:52	36.29	35.00
GW0037	1102174-07	02/21/11 10:52	37.10	35.00
GW0038	1102174-09	02/21/11 10:52	36.35	35.00
GW0009	1102179-01	02/21/11 10:52	36.78	35.00
GW0009	1102179-01RE1	02/21/11 10:52	36.78	35.00
Blank	1B21009-BLK1	02/21/11 10:52	35.00	35.00
LCS	1B21009-BS1	02/21/11 10:52	35.00	35.00
GW0011	1B21009-MS1	02/21/11 10:52	36.17	35.00
GW0011	1B21009-MSD1	02/21/11 10:52	35.26	35.00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B21009-BLK1 File ID: 005R0101.D

Sampled: Prepared: 02/21/11 10:52 Analyzed: 02/21/11 13:07

Solids: Preparation: EDB Dilution:

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.0100	0.0200	0.0300	U

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0L34409	Instrument:	GL-ECD2
Calibration:	0344003		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10L0344	EDB ICAL 1 (0.03ppb)	0L34409-CAL1	002R0101.D	12/09/10 14:14
10L0344	EDB ICAL 1 (0.03ppb)	0L34409-CAL1	002F0101.D	12/09/10 14:14
10L0345	EDB ICAL 2 (0.05ppb)	0L34409-CAL2	003F0101.D	12/09/10 14:35
10L0345	EDB ICAL 2 (0.05ppb)	0L34409-CAL2	003R0101.D	12/09/10 14:35
10L0346	EDB ICAL 3 (0.10ppb)	0L34409-CAL3	004F0101.D	12/09/10 14:56
10L0346	EDB ICAL 3 (0.10ppb)	0L34409-CAL3	004R0101.D	12/09/10 14:56
10L0347	EDB ICAL 4 (0.15ppb)	0L34409-CAL4	005R0101.D	12/09/10 15:17
10L0347	EDB ICAL 4 (0.15ppb)	0L34409-CAL4	005F0101.D	12/09/10 15:17
10L0348	EDB ICAL 5 (0.20ppb)	0L34409-CAL5	006R0101.D	12/09/10 15:38
10L0348	EDB ICAL 5 (0.20ppb)	0L34409-CAL5	006F0101.D	12/09/10 15:38
10L0349	EDB ICAL 6 (0.40ppb)	0L34409-CAL6	007F0101.D	12/09/10 16:00
10L0349	EDB ICAL 6 (0.40ppb)	0L34409-CAL6	007R0101.D	12/09/10 16:00
10L0350	EDB ICAL 7 (0.50ppb)	0L34409-CAL7	008F0101.D	12/09/10 16:21
10L0350	EDB ICAL 7 (0.50ppb)	0L34409-CAL7	008R0101.D	12/09/10 16:21
10L0351	EDB ICAL 8 (1.00ppb)	0L34409-CAL8	009R0101.D	12/09/10 16:42
10L0351	EDB ICAL 8 (1.00ppb)	0L34409-CAL8	009F0101.D	12/09/10 16:42

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 2:14:04PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	1	14540	0.5	15516	0.4	15402.5	0.2	16590	0.15	15980	0.1	~~17600~~
1,2-Dibromoethane [2C]	1	29076	0.5	33560	0.4	33402.5	0.2	38785	0.15	37866.67	0.1	~~42050~~
1,2-Dibromo-3-chloropropane	1	24442	0.5	28986	0.4	28852.5	0.2	31650	0.15	31693.33	0.1	~~45080~~
1,2-Dibromo-3-chloropropane [2C]	1	69695	0.5	78930	0.4	76647.5	0.2	85730	0.15	88033.34	0.1	~~105450~~

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 2:14:04PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	0.05	23100	0.03	21300								
1,2-Dibromoethane [2C]	0.05	45260	0.03	42333.33								
1,2-Dibromo-3-chloropropane	0.05	52760	0.03	51166.67								
1,2-Dibromo-3-chloropropane [2C]	0.05	155180	0.03	148933.3								

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 2:14:04PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	17489.79	18.96825	1.543	1.749237E-02		0.9996372	CCC ()	*
1,2-Dibromoethane [2C]	37183.36	15.05167	0.583	2.248094E-02		0.9995717	CCC ()	*
1,2-Dibromo-3-chloropropane	35650.07	32.01128	6.973	2.748517E-02		0.9987968	CCC ()	*
1,2-Dibromo-3-chloropropane [2C]	100449.9	35.64558	4.139286	5.910871E-02		0.9986728	CCC ()	*

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	010F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	0L34409	Injection Date:	12/09/10
Lab Sample ID:	0L34409-ICV1	Injection Time:	17:04

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4746	17489.79	14620		-5.1	20
1,2-Dibromoethane [2C]	Q	0.5000	0.4584	37183.36	30824		-8.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	002F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B05305	Injection Date:	02/21/11
Lab Sample ID:	1B05305-CCV1	Injection Time:	12:03

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5322	17489.79	16266		6.4	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5503	37183.36	35930		10.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	018F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B05305	Injection Date:	02/21/11
Lab Sample ID:	1B05305-CCV2	Injection Time:	17:43

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5004	17489.79	15358		0.08	20
1,2-Dibromoethane [2C]	Q	0.5000	0.4961	37183.36	32946		-0.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	027F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B05305	Injection Date:	02/21/11
Lab Sample ID:	1B05305-CCV3	Injection Time:	20:53

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4971	17489.79	15264		-0.6	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5078	37183.36	33600		1.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	002F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B05310	Injection Date:	02/22/11
Lab Sample ID:	1B05310-CCV1	Injection Time:	10:41

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5206	17489.79	15936		4.1	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5273	37183.36	34676		5.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	007F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B05310	Injection Date:	02/22/11
Lab Sample ID:	1B05310-CCV2	Injection Time:	12:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5131	17489.79	15722		2.6	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5276	37183.36	34692		5.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

HOLDING TIME SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0019	02/14/11 16:45	02/15/11 08:45	02/21/11 10:52	6.71	14.00	02/21/11 13:28	0.11	14.00	
GW0019	02/14/11 16:45	02/15/11 08:45	02/21/11 10:52	6.71	14.00	02/21/11 18:46	0.33	14.00	
GW0020	02/14/11 16:45	02/15/11 08:45	02/21/11 10:52	6.71	14.00	02/21/11 13:49	0.12	14.00	
GW0021	02/14/11 11:17	02/15/11 08:45	02/21/11 10:52	6.94	14.00	02/21/11 14:10	0.14	14.00	
GW0022	02/15/11 13:59	02/16/11 08:30	02/21/11 10:52	5.87	14.00	02/21/11 14:32	0.15	14.00	
GW0011	02/16/11 10:45	02/17/11 08:45	02/21/11 10:52	4.96	14.00	02/21/11 14:53	0.17	14.00	
GW0011	02/16/11 10:45	02/17/11 08:45	02/21/11 10:52	4.96	14.00	02/22/11 11:23	1.02	14.00	
GW0031	02/16/11 15:05	02/17/11 08:45	02/21/11 10:52	4.78	14.00	02/21/11 15:57	0.21	14.00	
GW0031	02/16/11 15:05	02/17/11 08:45	02/21/11 10:52	4.78	14.00	02/21/11 19:28	0.36	14.00	
GW0010	02/17/11 14:56	02/18/11 08:45	02/21/11 10:52	3.79	14.00	02/21/11 16:18	0.23	14.00	
GW0010	02/17/11 14:56	02/18/11 08:45	02/21/11 10:52	3.79	14.00	02/21/11 19:49	0.37	14.00	
GW0015	02/17/11 11:10	02/18/11 08:45	02/21/11 10:52	3.95	14.00	02/21/11 16:39	0.24	14.00	
GW0015	02/17/11 11:10	02/18/11 08:45	02/21/11 10:52	3.95	14.00	02/22/11 11:44	1.04	14.00	
GW0036	02/17/11 10:18	02/18/11 08:45	02/21/11 10:52	3.98	14.00	02/21/11 17:00	0.26	14.00	
GW0037	02/17/11 10:50	02/18/11 08:45	02/21/11 10:52	3.96	14.00	02/21/11 17:22	0.27	14.00	
GW0038	02/17/11 10:50	02/18/11 08:45	02/21/11 10:52	3.96	14.00	02/21/11 18:04	0.30	14.00	
GW0009	02/18/11 13:06	02/19/11 09:30	02/21/11 10:52	2.87	14.00	02/21/11 18:25	0.31	14.00	
GW0009	02/18/11 13:06	02/19/11 09:30	02/21/11 10:52	2.87	14.00	02/22/11 12:05	1.05	14.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B21009-BS1
File ID: 004F0101.D
Sampled:
Prepared:
Analyzed: 02/21/11 12:45
Solids:
Preparation: EDB
Dilution:
Batch: 1B21009
Sequence: 1B05305
Calibration: 0344003
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5447	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B21009-BS1
File ID: 004R0101.D
Sampled:
Prepared:
Analyzed: 02/21/11 12:45
Solids:
Preparation: EDB
Dilution:
Batch: 1B21009
Sequence: 1B05305
Calibration: 0344003
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5594	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B21009-MS1 File ID: 011F0101.D

Sampled: Prepared: Analyzed: 02/21/11 15:14

Solids: Preparation: EDB Dilution:

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	140.8	0.00968	0.0194	0.0290	

ANALYSIS DATA SHEET

Matrix Spike

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B21009-MS1 File ID: 011R0101.D

Sampled: Prepared: Analyzed: 02/21/11 15:14

Solids: Preparation: EDB Dilution:

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	1045	0.00968	0.0194	0.0290	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B21009-MSD1 File ID: 012F0101.D

Sampled: Prepared: Analyzed: 02/21/11 15:35

Solids: Preparation: EDB Dilution:

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	141.6	0.00993	0.0199	0.0298	

ANALYSIS DATA SHEET

Matrix Spike Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B21009-MSD1 File ID: 012R0101.D

Sampled: Prepared: Analyzed: 02/21/11 15:35

Solids: Preparation: EDB Dilution:

Batch: 1B21009 Sequence: 1B05305 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	1051	0.00993	0.0199	0.0298	

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0019

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102135-01 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.958	
	2	0.58	0.55	0.61	0.998	4

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0019

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102135-01RE1 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.864	
	2	0.58	0.55	0.61	0.704	20

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0020

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102135-03 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.899	
	2	0.58	0.55	0.61	0.950	6

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0021

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102135-05 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.334	
	2	0.58	0.55	0.61	0.353	6

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0011

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102166-01 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	118	
	2	0.58	0.55	0.61	827	150

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0011

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102166-01RE1 Date(s) Analyzed: 02/22/2011 02/22/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	100	
	2	0.58	0.55	0.61	86.9	14

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0031

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102166-03 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	8.33	
	2	0.58	0.55	0.61	16.1	64

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0031

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102166-03RE1 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	10.3	
	2	0.58	0.55	0.61	7.73	29

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0010

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102174-01 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	9.24	
	2	0.58	0.55	0.61	12.8	32

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0010

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102174-01RE1 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	10.6	
	2	0.58	0.55	0.61	8.27	25

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0015

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102174-03 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	78.8	
	2	0.58	0.55	0.61	458	141

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0015

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102174-03RE1 Date(s) Analyzed: 02/22/2011 02/22/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	76.7	
	2	0.58	0.55	0.61	62.6	20

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0009

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102179-01 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	59.8	
	2	0.58	0.55	0.61	323	138

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0009

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102179-01RE1 Date(s) Analyzed: 02/22/2011 02/22/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	59.3	
	2	0.58	0.55	0.61	50.2	17

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1B21009-BS1 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.5447	
	2	0.58	0.55	0.61	0.5594	3

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1B21009-MS1 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	140.8	
	2	0.58	0.55	0.61	1045	153

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

Matrix Spike Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1B21009-MSD1 Date(s) Analyzed: 02/21/2011 02/21/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	141.6	
	2	0.58	0.55	0.61	1051	153

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_004

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** GL-ECD2

Analyte	MDL	MRL	Units	Method
1,2-Dibromoethane	0.0100	0.0300	ug/L	SW8011
1,2-Dibromoethane [2C]	0.0100	0.0300	ug/L	SW8011

Data for SW6010B Forms

ANALYSIS DATA SHEET

GW0019

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/14/11 16:45
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102135-01
Received: 02/15/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	42000	1000	2000	5000	1		SW6010B	1C02002	03/04/11 12:40
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C02002	03/04/11 12:40
7439-95-4	Magnesium	5990	1000	3000	5000	1		SW6010B	1C02002	03/04/11 12:40
7440-09-7	Potassium	2420	1000	3000	5000	1	J	SW6010B	1C02002	03/04/11 12:40
7440-23-5	Sodium	24700	1000	3000	5000	1		SW6010B	1C02002	03/04/11 12:40

ANALYSIS DATA SHEET

GW0019

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/14/11 16:45
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102135-02
Received: 02/15/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	120	30.0	60.0	100	1		SW6010B	1C07004	03/07/11 21:55
7439-96-5	Manganese (dissolved)	844	3.00	6.00	15.0	1		SW6010B	1C07004	03/07/11 21:55

ANALYSIS DATA SHEET

GW0020

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/14/11 16:45
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102135-03
Received: 02/15/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	44600	1000	2000	5000	1		SW6010B	1C02002	03/04/11 12:44
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C02002	03/04/11 12:44
7439-95-4	Magnesium	6380	1000	3000	5000	1		SW6010B	1C02002	03/04/11 12:44
7440-09-7	Potassium	2610	1000	3000	5000	1	J	SW6010B	1C02002	03/04/11 12:44
7440-23-5	Sodium	26600	1000	3000	5000	1		SW6010B	1C02002	03/04/11 12:44

ANALYSIS DATA SHEET

GW0020

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/14/11 16:45
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102135-04
Received: 02/15/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	125	30.0	60.0	100	1		SW6010B	1C07004	03/07/11 22:00
7439-96-5	Manganese (dissolved)	844	3.00	6.00	15.0	1		SW6010B	1C07004	03/07/11 22:00

ANALYSIS DATA SHEET

GW0021

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/14/11 11:17
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102135-05
Received: 02/15/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	38800	1000	2000	5000	1		SW6010B	1C02002	03/04/11 12:49
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C02002	03/04/11 12:49
7439-95-4	Magnesium	4980	1000	3000	5000	1	J	SW6010B	1C02002	03/04/11 12:49
7440-09-7	Potassium	2220	1000	3000	5000	1	J	SW6010B	1C02002	03/04/11 12:49
7440-23-5	Sodium	23800	1000	3000	5000	1		SW6010B	1C02002	03/04/11 12:49

ANALYSIS DATA SHEET

GW0021

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/14/11 11:17
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102135-06
Received: 02/15/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1C07004	03/07/11 22:04
7439-96-5	Manganese (dissolved)	10.2	3.00	6.00	15.0	1	J	SW6010B	1C07004	03/07/11 22:04

ANALYSIS DATA SHEET

GW0022

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/15/11 13:59
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102141-01
Received: 02/16/11 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	46800	1000	2000	5000	1		SW6010B	1C02002	03/04/11 12:53
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C02002	03/04/11 12:53
7439-95-4	Magnesium	6390	1000	3000	5000	1		SW6010B	1C02002	03/04/11 12:53
7440-09-7	Potassium	2430	1000	3000	5000	1	J	SW6010B	1C02002	03/04/11 12:53
7440-23-5	Sodium	24500	1000	3000	5000	1		SW6010B	1C02002	03/04/11 12:53

ANALYSIS DATA SHEET

GW8002-RB

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/15/11 14:50
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102141-04
Received: 02/16/11 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium		1000	2000	5000	1	U	SW6010B	1C02002	03/04/11 12:58
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C02002	03/04/11 12:58
7439-95-4	Magnesium		1000	3000	5000	1	U	SW6010B	1C02002	03/04/11 12:58
7440-09-7	Potassium		1000	3000	5000	1	U	SW6010B	1C02002	03/04/11 12:58
7440-23-5	Sodium		1000	3000	5000	1	U	SW6010B	1C02002	03/04/11 12:58

ANALYSIS DATA SHEET

GW8002-RB

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/15/11 14:50
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102141-05
Received: 02/16/11 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	36.9	30.0	60.0	100	1	J	SW6010B	1C07004	03/07/11 22:09
7439-96-5	Manganese (dissolved)	6.84	3.00	6.00	15.0	1	J	SW6010B	1C07004	03/07/11 22:09

ANALYSIS DATA SHEET

GW0022

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/15/11 13:59
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102141-06
Received: 02/16/11 08:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1C07004	03/07/11 22:14
7439-96-5	Manganese (dissolved)	33.0	3.00	6.00	15.0	1		SW6010B	1C07004	03/07/11 22:14

ANALYSIS DATA SHEET

GW0011

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/16/11 10:45
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102166-01
Received: 02/17/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	80600	1000	2000	5000	1		SW6010B	1C04002	03/07/11 20:26
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C04002	03/07/11 20:26
7439-95-4	Magnesium	10600	1000	3000	5000	1		SW6010B	1C04002	03/07/11 20:26
7440-09-7	Potassium	3040	1000	3000	5000	1	J	SW6010B	1C04002	03/07/11 20:26
7440-23-5	Sodium	35300	1000	3000	5000	1		SW6010B	1C04002	03/07/11 20:26

ANALYSIS DATA SHEET

GW0011

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/16/11 10:45
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102166-02
Received: 02/17/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	143	30.0	60.0	100	1		SW6010B	1C07004	03/07/11 22:18
7439-96-5	Manganese (dissolved)	1100	3.00	6.00	15.0	1		SW6010B	1C07004	03/07/11 22:18

ANALYSIS DATA SHEET

GW0031

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/16/11 15:05
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102166-03
Received: 02/17/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	78400	1000	2000	5000	1		SW6010B	1C04002	03/07/11 20:49
7439-92-1	Lead		2.00	3.00	3.00	1	M U	SW6010B	1C04002	03/07/11 20:49
7439-95-4	Magnesium	10400	1000	3000	5000	1		SW6010B	1C04002	03/07/11 20:49
7440-09-7	Potassium	3040	1000	3000	5000	1	J	SW6010B	1C04002	03/07/11 20:49
7440-23-5	Sodium	35500	1000	3000	5000	1		SW6010B	1C04002	03/07/11 20:49

ANALYSIS DATA SHEET

GW0031

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/16/11 15:05
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102166-04
Received: 02/17/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	48.8	30.0	60.0	100	1	J	SW6010B	1C07004	03/07/11 22:37
7439-96-5	Manganese (dissolved)	498	3.00	6.00	15.0	1		SW6010B	1C07004	03/07/11 22:37

ANALYSIS DATA SHEET

GW0010

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/17/11 14:56
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102174-01
Received: 02/18/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	110000	1000	2000	5000	1		SW6010B	1C04002	03/07/11 20:54
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C04002	03/07/11 20:54
7439-95-4	Magnesium	16100	1000	3000	5000	1		SW6010B	1C04002	03/07/11 20:54
7440-09-7	Potassium	3760	1000	3000	5000	1	J	SW6010B	1C04002	03/07/11 20:54
7440-23-5	Sodium	37700	1000	3000	5000	1		SW6010B	1C04002	03/07/11 20:54

ANALYSIS DATA SHEET

GW0010

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/17/11 14:56
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102174-02
Received: 02/18/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	1320	30.0	60.0	100	1		SW6010B	1C07004	03/07/11 22:42
7439-96-5	Manganese (dissolved)	3800	3.00	6.00	15.0	1		SW6010B	1C07004	03/07/11 22:42

ANALYSIS DATA SHEET

GW0015

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/17/11 11:10
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102174-03
Received: 02/18/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	56800	1000	2000	5000	1		SW6010B	1C04002	03/07/11 20:59
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C04002	03/07/11 20:59
7439-95-4	Magnesium	7310	1000	3000	5000	1		SW6010B	1C04002	03/07/11 20:59
7440-09-7	Potassium	2520	1000	3000	5000	1	J	SW6010B	1C04002	03/07/11 20:59
7440-23-5	Sodium	30400	1000	3000	5000	1		SW6010B	1C04002	03/07/11 20:59

ANALYSIS DATA SHEET

GW0015

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/17/11 11:10
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102174-04
Received: 02/18/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	637	30.0	60.0	100	1		SW6010B	1C07004	03/07/11 22:47
7439-96-5	Manganese (dissolved)	675	3.00	6.00	15.0	1		SW6010B	1C07004	03/07/11 22:47

ANALYSIS DATA SHEET

GW0036

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/17/11 10:18
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102174-05
Received: 02/18/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	31100	1000	2000	5000	1		SW6010B	1C04002	03/07/11 21:03
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C04002	03/07/11 21:03
7439-95-4	Magnesium	6860	1000	3000	5000	1		SW6010B	1C04002	03/07/11 21:03
7440-09-7	Potassium	6060	1000	3000	5000	1		SW6010B	1C04002	03/07/11 21:03
7440-23-5	Sodium	38100	1000	3000	5000	1		SW6010B	1C04002	03/07/11 21:03

ANALYSIS DATA SHEET

GW0036

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/17/11 10:18
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102174-06
Received: 02/18/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1C07004	03/07/11 22:51
7439-96-5	Manganese (dissolved)	22.5	3.00	6.00	15.0	1		SW6010B	1C07004	03/07/11 22:51

ANALYSIS DATA SHEET

GW0037

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/17/11 10:50
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102174-07
Received: 02/18/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	50500	1000	2000	5000	1		SW6010B	1C04002	03/07/11 21:08
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C04002	03/07/11 21:08
7439-95-4	Magnesium	5150	1000	3000	5000	1		SW6010B	1C04002	03/07/11 21:08
7440-09-7	Potassium	3580	1000	3000	5000	1	J	SW6010B	1C04002	03/07/11 21:08
7440-23-5	Sodium	31100	1000	3000	5000	1		SW6010B	1C04002	03/07/11 21:08

ANALYSIS DATA SHEET

GW0037

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/17/11 10:50
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102174-08
Received: 02/18/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	30.4	30.0	60.0	100	1	J	SW6010B	1C07004	03/07/11 23:09
7439-96-5	Manganese (dissolved)	7.32	3.00	6.00	15.0	1	J	SW6010B	1C07004	03/07/11 23:09

ANALYSIS DATA SHEET

GW0038

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/17/11 10:50
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102174-09
Received: 02/18/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	48700	1000	2000	5000	1		SW6010B	1C04002	03/07/11 21:13
7439-92-1	Lead		2.00	3.00	3.00	1	M U	SW6010B	1C04002	03/07/11 21:13
7439-95-4	Magnesium	4960	1000	3000	5000	1	J	SW6010B	1C04002	03/07/11 21:13
7440-09-7	Potassium	3850	1000	3000	5000	1	J	SW6010B	1C04002	03/07/11 21:13
7440-23-5	Sodium	32000	1000	3000	5000	1		SW6010B	1C04002	03/07/11 21:13

ANALYSIS DATA SHEET

GW0038

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/17/11 10:50
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102174-10
Received: 02/18/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1C07004	03/07/11 23:14
7439-96-5	Manganese (dissolved)	6.51	3.00	6.00	15.0	1	J	SW6010B	1C07004	03/07/11 23:14

ANALYSIS DATA SHEET

GW0009

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/18/11 13:06
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102179-01
Received: 02/19/11 09:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	55600	1000	2000	5000	1		SW6010B	1C04002	03/07/11 21:17
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C04002	03/07/11 21:17
7439-95-4	Magnesium	7520	1000	3000	5000	1		SW6010B	1C04002	03/07/11 21:17
7440-09-7	Potassium	2480	1000	3000	5000	1	J	SW6010B	1C04002	03/07/11 21:17
7440-23-5	Sodium	29900	1000	3000	5000	1		SW6010B	1C04002	03/07/11 21:17

ANALYSIS DATA SHEET

GW0009

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/18/11 13:06
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102179-02
Received: 02/19/11 09:30

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	390	30.0	60.0	100	1		SW6010B	1C07004	03/07/11 23:18
7439-96-5	Manganese (dissolved)	992	3.00	6.00	15.0	1		SW6010B	1C07004	03/07/11 23:18

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
SDG: kirtland_004
Project: Kirtland AFB 2011
Calibration: 1065001
Sequence: 1C06501

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1C06501-ICV1	Calcium	50000	50840	102	ug/L	+/- 10.00%
	Lead	1000	991.1	99.1	ug/L	+/- 10.00%
	Magnesium	50000	47760	95.5	ug/L	+/- 10.00%
	Potassium	10000	9749	97.5	ug/L	+/- 10.00%
	Sodium	50000	51400	103	ug/L	+/- 10.00%
1C06501-CCV1	Calcium	50000	51600	103	ug/L	+/- 10.00%
	Lead	1000	1001	100	ug/L	+/- 10.00%
	Magnesium	50000	48320	96.6	ug/L	+/- 10.00%
	Potassium	10000	10420	104	ug/L	+/- 10.00%
	Sodium	50000	51830	104	ug/L	+/- 10.00%
1C06501-CCV2	Calcium	50000	51400	103	ug/L	+/- 10.00%
	Lead	1000	974.5	97.5	ug/L	+/- 10.00%
	Magnesium	50000	47560	95.1	ug/L	+/- 10.00%
	Potassium	10000	10500	105	ug/L	+/- 10.00%
	Sodium	50000	51100	102	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: kirtland_004
Project: Kirtland AFB 2011
Calibration: 1067002
Sequence: 1C06703

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1C06703-ICV1	Calcium	50000	48570	97.1	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9746	97.5	ug/L	+/- 10.00%
	Lead	1000	993.4	99.3	ug/L	+/- 10.00%
	Magnesium	50000	46670	93.3	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1004	100	ug/L	+/- 10.00%
	Potassium	10000	9760	97.6	ug/L	+/- 10.00%
	Sodium	50000	49740	99.5	ug/L	+/- 10.00%
1C06703-CCV1	Calcium	50000	48840	97.7	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9708	97.1	ug/L	+/- 10.00%
	Lead	1000	1052	105	ug/L	+/- 10.00%
	Magnesium	50000	48230	96.5	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1044	104	ug/L	+/- 10.00%
	Potassium	10000	10040	100	ug/L	+/- 10.00%
	Sodium	50000	50340	101	ug/L	+/- 10.00%
1C06703-CCV4	Calcium	50000	51230	102	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10440	104	ug/L	+/- 10.00%
	Lead	1000	969.0	96.9	ug/L	+/- 10.00%
	Magnesium	50000	47120	94.2	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	990.2	99.0	ug/L	+/- 10.00%
	Potassium	10000	9727	97.3	ug/L	+/- 10.00%
	Sodium	50000	50920	102	ug/L	+/- 10.00%
1C06703-CCV5	Calcium	50000	53470	107	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10700	107	ug/L	+/- 10.00%
	Lead	1000	916.7	91.7	ug/L	+/- 10.00%
	Magnesium	50000	47400	94.8	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	977.0	97.7	ug/L	+/- 10.00%
	Potassium	10000	9560	95.6	ug/L	+/- 10.00%
	Sodium	50000	52300	105	ug/L	+/- 10.00%
1C06703-CCV6	Calcium	50000	53040	106	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10710	107	ug/L	+/- 10.00%
	Lead	1000	907.1	90.7	ug/L	+/- 10.00%
	Magnesium	50000	47090	94.2	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	956.1	95.6	ug/L	+/- 10.00%
	Potassium	10000	9568	95.7	ug/L	+/- 10.00%
	Sodium	50000	52740	105	ug/L	+/- 10.00%
1C06703-CCV7	Calcium	50000	51080	102	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10430	104	ug/L	+/- 10.00%
	Lead	1000	940.0	94.0	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: kirtland_004
Project: Kirtland AFB 2011
Calibration: 1067002
Sequence: 1C06703

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1C06703-CCV7	Magnesium	50000	46980	94.0	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	976.5	97.6	ug/L	+/- 10.00%
	Potassium	10000	9910	99.1	ug/L	+/- 10.00%
	Sodium	50000	53050	106	ug/L	+/- 10.00%
1C06703-CCV8	Calcium	50000	51700	103	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10470	105	ug/L	+/- 10.00%
	Lead	1000	938.1	93.8	ug/L	+/- 10.00%
	Magnesium	50000	47350	94.7	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	955.8	95.6	ug/L	+/- 10.00%
	Potassium	10000	9908	99.1	ug/L	+/- 10.00%
	Sodium	50000	53310	107	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1065001
Sequence: 1C06501

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1C06501-CRL1	Calcium	2000	2031	102	ug/L	80 - 120
	Lead	3.000	2.836	94.5	ug/L	80 - 120
	Magnesium	3000	2818	93.9	ug/L	80 - 120
	Potassium	3000	3021	101	ug/L	80 - 120
	Sodium	3000	3067	102	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1067002

Sequence: 1C06703

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1C06703-CRL1	Calcium	5000	4932	98.6	ug/L	80 - 120
	Iron (dissolved)	100.0	103.8	104	ug/L	80 - 120
	Lead	3.000	2.640	88.0	ug/L	80 - 120
	Magnesium	5000	4722	94.4	ug/L	80 - 120
	Manganese (dissolved)	15.00	15.88	106	ug/L	80 - 120
	Potassium	5000	4926	98.5	ug/L	80 - 120
	Sodium	5000	4992	99.8	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1C06501
Calibration: 1065001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C06501-ICB1	Calcium	2.110	1000	5000	ug/L	U	SW6010B
	Lead	0.05207	1.50	3.00	ug/L	U	SW6010B
	Magnesium	0.8700	1000	5000	ug/L	U	SW6010B
	Potassium	-2.880	1000	5000	ug/L	U	SW6010B
	Sodium	15.87	1000	5000	ug/L	U	SW6010B
1C06501-CCB1	Calcium	4.33	1000	5000	ug/L	U	SW6010B
	Lead	-0.498	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.86	1000	5000	ug/L	U	SW6010B
	Potassium	5.60	1000	5000	ug/L	U	SW6010B
	Sodium	13.6	1000	5000	ug/L	U	SW6010B
1C02002-BLK1	Calcium	7.29	1000	5000	ug/L	U	SW6010B
	Lead	-0.221	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.29	1000	5000	ug/L	U	SW6010B
	Potassium	6.72	1000	5000	ug/L	U	SW6010B
	Sodium	15.2	1000	5000	ug/L	U	SW6010B
1C06501-CCB2	Calcium	4.75	1000	5000	ug/L	U	SW6010B
	Lead	-0.120	1.50	3.00	ug/L	U	SW6010B
	Magnesium	5.96	1000	5000	ug/L	U	SW6010B
	Potassium	4.74	1000	5000	ug/L	U	SW6010B
	Sodium	16.2	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1C06703
Calibration: 1067002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C06703-ICB1	Calcium	23.25	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	4.567	30.0	100	ug/L	U	SW6010B
	Lead	-0.05011	1.50	3.00	ug/L	U	SW6010B
	Magnesium	13.08	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.1989	3.00	15.0	ug/L	U	SW6010B
	Potassium	10.93	1000	5000	ug/L	U	SW6010B
	Sodium	12.65	1000	5000	ug/L	U	SW6010B
1C06703-CCB1	Calcium	9.77	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.725	30.0	100	ug/L	U	SW6010B
	Lead	-0.213	1.50	3.00	ug/L	U	SW6010B
	Magnesium	4.01	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0826	3.00	15.0	ug/L	U	SW6010B
	Potassium	4.37	1000	5000	ug/L	U	SW6010B
	Sodium	-2.72	1000	5000	ug/L	U	SW6010B
1C06703-CCB4	Calcium	5.19	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	2.23	30.0	100	ug/L	U	SW6010B
	Lead	0.0529	1.50	3.00	ug/L	U	SW6010B
	Magnesium	0.390	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.170	3.00	15.0	ug/L	U	SW6010B
	Potassium	0.850	1000	5000	ug/L	U	SW6010B
	Sodium	-8.55	1000	5000	ug/L	U	SW6010B
1C04002-BLK1	Calcium	10.6	1000	5000	ug/L	U	SW6010B
	Lead	-0.587	1.50	3.00	ug/L	U	SW6010B
	Magnesium	0.770	1000	5000	ug/L	U	SW6010B
	Potassium	-3.32	1000	5000	ug/L	U	SW6010B
	Sodium	-5.97	1000	5000	ug/L	U	SW6010B
1C06703-CCB5	Calcium	6.08	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-0.886	30.0	100	ug/L	U	SW6010B
	Lead	0.966	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-1.10	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0914	3.00	15.0	ug/L	U	SW6010B
	Potassium	-12.1	1000	5000	ug/L	U	SW6010B
	Sodium	-7.04	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1C06703
Calibration: 1067002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C06703-CCB6	Calcium	2.61	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-0.642	30.0	100	ug/L	U	SW6010B
	Lead	-0.139	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-2.27	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0931	3.00	15.0	ug/L	U	SW6010B
	Potassium	-11.7	1000	5000	ug/L	U	SW6010B
	Sodium	-21.9	1000	5000	ug/L	U	SW6010B
1C07004-BLK1	Iron (dissolved)	-1.43	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0343	3.00	15.0	ug/L	U	SW6010B
1C06703-CCB7	Calcium	2.01	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-1.03	30.0	100	ug/L	U	SW6010B
	Lead	-0.554	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-2.85	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0817	3.00	15.0	ug/L	U	SW6010B
	Potassium	-23.1	1000	5000	ug/L	U	SW6010B
	Sodium	-19.9	1000	5000	ug/L	U	SW6010B
1C06703-CCB8	Calcium	1.78	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-1.04	30.0	100	ug/L	U	SW6010B
	Lead	-0.312	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-6.43	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.00280	3.00	15.0	ug/L	U	SW6010B
	Potassium	-20.2	1000	5000	ug/L	U	SW6010B
	Sodium	-18.4	1000	5000	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1065001
Sequence: 1C06501

Lab Sample ID	Analyte	True	Found	%R	Units
1C06501-IFA1	Calcium	500000	490,910.00	98.2	ug/L
	Lead		4.17		ug/L
	Magnesium	500000	502,330.00	100	ug/L
	Potassium		-72.98		ug/L
	Sodium		37.03		ug/L
1C06501-IFB1	Calcium	500000	458,140.00	91.6	ug/L
	Lead	50.00	55.53	111	ug/L
	Magnesium	500000	464,220.00	92.8	ug/L
	Potassium		-54.43		ug/L
	Sodium		53.72		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1067002
Sequence: 1C06703

Lab Sample ID	Analyte	True	Found	%R	Units
1C06703-IFA1	Calcium	500000	483,660.00	96.7	ug/L
	Iron (dissolved)	200000	192,940.00	96.5	ug/L
	Lead		10.82		ug/L
	Magnesium	500000	500,760.00	100	ug/L
	Manganese (dissolved)		3.96		ug/L
	Potassium		-54.97		ug/L
	Sodium		9.32		ug/L
1C06703-IFB1	Calcium	500000	450,230.00	90.0	ug/L
	Iron (dissolved)	200000	179,940.00	90.0	ug/L
	Lead	50.00	55.86	112	ug/L
	Magnesium	500000	467,170.00	93.4	ug/L
	Manganese (dissolved)	500.0	449.65	89.9	ug/L
	Potassium		-34.38		ug/L
	Sodium		35.68		ug/L
1C06703-IFB2	Calcium	500000	441,210.00	88.2	ug/L
	Iron (dissolved)	200000	175,790.00	87.9	ug/L
	Lead	50.00	54.16	108	ug/L
	Magnesium	500000	456,050.00	91.2	ug/L
	Manganese (dissolved)	500.0	437.04	87.4	ug/L
	Potassium		-23.72		ug/L
	Sodium		45.24		ug/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0011

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

Batch: 1C04002

% Solids:

SDG: kirtland_004

Project: Kirtland AFB 2011

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Calcium	5000	80610	85700	102		80 - 120
Lead	250.0	ND	224.3	89.7		80 - 120
Magnesium	5000	10620	15320	94.1		80 - 120
Potassium	5000	3039	8249	104		80 - 120
Sodium	5000	35320	41470	123		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Calcium	5000	86170	111	0.546		20	80 - 120
Lead	250.0	224.2	89.7	0.0758		20	80 - 120
Magnesium	5000	15330	94.3	0.0522		20	80 - 120
Potassium	5000	8078	101	2.10		20	80 - 120
Sodium	5000	40880	111	1.43		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SW6010B

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1C07004

% Solids:

Source Sample Name: **1102166-02**

ANALYTE	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC.	Q	QC LIMITS REC.
Iron (dissolved)	1000	143.2	1201	106		80 - 120
Manganese (dissolved)	500.0	1103	1570	93.3		80 - 120

ANALYTE	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Iron (dissolved)	1000	1193	105	0.710		20	80 - 120
Manganese (dissolved)	500.0	1553	89.9	1.08		20	80 - 120

POST DIGEST SPIKE SAMPLE RECOVERY

SW6010B

GW0011

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Laboratory ID: 1C04002-PS1
Batch: 1C04002
Lab Source ID: 1102166-01
Preparation: MET_3005A
Initial/Final: 20 mL / 20 mL

Analyte	Spike Sample Result (SSR) (ug/L)	Sample Result (SR) (ug/L)	Spike Added (SA) (ug/L)	%R	Control Limit %R
Calcium	85950	80610	5000	107	80 - 120
Lead	230.9	ND	250.0	92.7	80 - 120
Magnesium	15320	10620	5000	94.1	80 - 120
Potassium	8209	3039	5000	103	80 - 120
Sodium	41150	35320	5000	117	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C02002	Laboratory ID:	1C02002-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Calcium	5000	5005	100	80 - 120
Lead	250.0	255.0	102	80 - 120
Magnesium	5000	4696	93.9	80 - 120
Potassium	5000	5155	103	80 - 120
Sodium	5000	5229	105	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C04002	Laboratory ID:	1C04002-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Calcium	5000	5132	103	80 - 120
Lead	250.0	238.4	95.4	80 - 120
Magnesium	5000	4639	92.8	80 - 120
Potassium	5000	4774	95.5	80 - 120
Sodium	5000	5155	103	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C07004	Laboratory ID:	1C07004-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Iron (dissolved)	1000	1094	109	80 - 120
Manganese (dissolved)	500.0	489.1	97.8	80 - 120

SERIAL DILUTION

SW6010B

GW0011

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 1C06703
Preparation: MET_3005A

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1C04002-DUP1
Lab Source ID: 1102166-01
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Calcium	80609	81865	1.56		SW6010B	10.00
Lead	ND	ND			SW6010B	10.00
Magnesium	10619	10633	0.132		SW6010B	10.00
Potassium	3038.9	ND			SW6010B	10.00
Sodium	35323	33884	-4.08		SW6010B	10.00

SERIAL DILUTION

SW6010B

GW0011

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sequence: 1C06703
Preparation: MET_3005A

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1C07004-DUP1
Lab Source ID: 1102166-02
Initial/Final: 50 / 50

Analyte	Initial Sample Result (I) ug/L	Serial Dilution Result (S) ug/L	% Difference	Q	Method	QC Limits % Difference
Iron (dissolved)	143.2	154.08	7.6		SW6010B	10.00
Manganese (dissolved)	1103.2	1191.3	7.99		SW6010B	10.00

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_004

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** ME-ICP

Analyte	MDL	MRL	Units	Method
Calcium	1000	5000	ug/L	SW6010B
Iron (dissolved)	30.0	100	ug/L	SW6010B
Lead	1.50	3.00	ug/L	SW6010B
Magnesium	1000	5000	ug/L	SW6010B
Manganese (dissolved)	3.00	15.0	ug/L	SW6010B
Potassium	1000	5000	ug/L	SW6010B
Sodium	1000	5000	ug/L	SW6010B

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_004

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_004

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		As	B	Ba	Be	Cd
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_004

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	K	Mn
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_004

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Mo	Na	Ni	Pb	Sb
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_004

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Se	Sn	Ti	Tl	V
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_004

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				

Comments:

FORM XA-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories, LLC

Client: Shaw E & I (I700) SDG: kirtland_004

Project: Kirtland AFB 2011

ICP Instrument ID: ME-ICP Date: 09/11/2009

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Calcium	15	500000	P
Calcium	15	500000	P
Calcium	15	500000	P
Calcium	15	500000	P
Calcium	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Lead	15	10000	P
Lead	15	10000	P
Lead	15	10000	P
Lead	15	10000	P
Lead	15	10000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Manganese	15	10000	P
Manganese	15	10000	P
Manganese	15	10000	P
Manganese	15	10000	P
Manganese	15	10000	P
Potassium	15	100000	P
Potassium	15	100000	P
Potassium	15	100000	P
Potassium	15	100000	P
Potassium	15	100000	P
Sodium	15	500000	P
Sodium	15	500000	P
Sodium	15	500000	P
Sodium	15	500000	P
Sodium	15	500000	P

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C02002 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0019	1102135-01	03/02/11 08:35	50.00	50.00
GW0020	1102135-03	03/02/11 08:35	50.00	50.00
GW0021	1102135-05	03/02/11 08:35	50.00	50.00
GW0022	1102141-01	03/02/11 08:35	50.00	50.00
GW8002-RB	1102141-04	03/02/11 08:35	50.00	50.00
Blank	1C02002-BLK1	03/02/11 08:35	50.00	50.00
LCS	1C02002-BS1	03/02/11 08:35	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C04002 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0011	1102166-01	03/04/11 08:22	50.00	50.00
GW0031	1102166-03	03/04/11 08:22	50.00	50.00
GW0010	1102174-01	03/04/11 08:22	50.00	50.00
GW0015	1102174-03	03/04/11 08:22	50.00	50.00
GW0036	1102174-05	03/04/11 08:22	50.00	50.00
GW0037	1102174-07	03/04/11 08:22	50.00	50.00
GW0038	1102174-09	03/04/11 08:22	50.00	50.00
GW0009	1102179-01	03/04/11 08:22	50.00	50.00
Blank	1C04002-BLK1	03/04/11 08:22	50.00	50.00
LCS	1C04002-BS1	03/04/11 08:22	50.00	50.00
GW0011	1C04002-DUP1	03/04/11 08:22	50.00	50.00
GW0011	1C04002-MS1	03/04/11 08:22	50.00	50.00
GW0011	1C04002-MSD1	03/04/11 08:22	50.00	50.00
GW0011	1C04002-PS1	03/04/11 08:22	20.00	20.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C07004 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0019	1102135-02	03/07/11 08:41	50.00	50.00
GW0020	1102135-04	03/07/11 08:41	50.00	50.00
GW0021	1102135-06	03/07/11 08:41	50.00	50.00
GW8002-RB	1102141-05	03/07/11 08:41	50.00	50.00
GW0022	1102141-06	03/07/11 08:41	50.00	50.00
GW0011	1102166-02	03/07/11 08:41	50.00	50.00
GW0031	1102166-04	03/07/11 08:41	50.00	50.00
GW0010	1102174-02	03/07/11 08:41	50.00	50.00
GW0015	1102174-04	03/07/11 08:41	50.00	50.00
GW0036	1102174-06	03/07/11 08:41	50.00	50.00
GW0037	1102174-08	03/07/11 08:41	50.00	50.00
GW0038	1102174-10	03/07/11 08:41	50.00	50.00
GW0009	1102179-02	03/07/11 08:41	50.00	50.00
Blank	1C07004-BLK1	03/07/11 08:41	50.00	50.00
LCS	1C07004-BS1	03/07/11 08:41	50.00	50.00
GW0011	1C07004-DUP1	03/07/11 08:41	50.00	50.00
GW0011	1C07004-MS1	03/07/11 08:41	50.00	50.00
GW0011	1C07004-MSD1	03/07/11 08:41	20.00	20.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C06501	Instrument:	ME-ICP
Calibration:	1065001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1C06501-CAL1	030411A-001	03/04/11 09:47
Cal Standard	1C06501-CAL2	030411A-002	03/04/11 09:52
Cal Standard	1C06501-CAL3	030411A-003	03/04/11 09:57
Cal Standard	1C06501-CAL5	030411A-005	03/04/11 10:06
Cal Standard	1C06501-CAL6	030411A-006	03/04/11 10:17
Cal Standard	1C06501-CAL7	030411A-007	03/04/11 10:22
Cal Standard	1C06501-CAL8	030411A-008	03/04/11 10:33
Initial Cal Check	1C06501-ICV1	030411B-001	03/04/11 11:07
Initial Cal Blank	1C06501-ICB1	030411B-002	03/04/11 11:15
Instrument RL Check	1C06501-CRL1	030411B-003	03/04/11 11:19
Interference Check A	1C06501-IFA1	030411B-009	03/04/11 11:51
Interference Check B	1C06501-IFB1	030411B-010	03/04/11 11:56
Calibration Check	1C06501-CCV1	030411B-012	03/04/11 12:07
Calibration Blank	1C06501-CCB1	030411B-013	03/04/11 12:14
Blank	1C02002-BLK1	030411B-016	03/04/11 12:29
LCS	1C02002-BS1	030411B-017	03/04/11 12:33
GW0019	1102135-01	030411B-018	03/04/11 12:40
GW0020	1102135-03	030411B-019	03/04/11 12:44
GW0021	1102135-05	030411B-020	03/04/11 12:49
GW0022	1102141-01	030411B-021	03/04/11 12:53
GW8002-RB	1102141-04	030411B-022	03/04/11 12:58
Calibration Check	1C06501-CCV2	030411B-028	03/04/11 13:27
Calibration Blank	1C06501-CCB2	030411B-029	03/04/11 13:34

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C06703	Instrument:	ME-ICP
Calibration:	1067002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1C06703-CAL1	030711A-001	03/07/11 12:13
Cal Standard	1C06703-CAL1	030711A-001	03/07/11 12:13
Cal Standard	1C06703-CAL2	030711A-002	03/07/11 12:17
Cal Standard	1C06703-CAL2	030711A-002	03/07/11 12:17
Cal Standard	1C06703-CAL3	030711A-003	03/07/11 12:22
Cal Standard	1C06703-CAL3	030711A-003	03/07/11 12:22
Cal Standard	1C06703-CAL4	030711A-004	03/07/11 12:27
Cal Standard	1C06703-CAL5	030711A-005	03/07/11 12:31
Cal Standard	1C06703-CAL5	030711A-005	03/07/11 12:31
Cal Standard	1C06703-CAL6	030711A-006	03/07/11 12:36
Cal Standard	1C06703-CAL6	030711A-006	03/07/11 12:36
Cal Standard	1C06703-CAL7	030711A-007	03/07/11 12:41
Cal Standard	1C06703-CAL8	030711A-008	03/07/11 12:46
Initial Cal Check	1C06703-ICV1	030711B-001	03/07/11 13:30
Initial Cal Check	1C06703-ICV1	030711B-001	03/07/11 13:30
Initial Cal Blank	1C06703-ICB1	030711B-002	03/07/11 13:38
Initial Cal Blank	1C06703-ICB1	030711B-002	03/07/11 13:38
Instrument RL Check	1C06703-CRL1	030711B-004	03/07/11 13:48
Instrument RL Check	1C06703-CRL1	030711B-004	03/07/11 13:48
Interference Check A	1C06703-IFA1	030711B-012	03/07/11 14:34
Interference Check A	1C06703-IFA1	030711B-012	03/07/11 14:34
Interference Check B	1C06703-IFB1	030711B-013	03/07/11 14:39
Interference Check B	1C06703-IFB1	030711B-013	03/07/11 14:39
Interference Check B	1C06703-IFB2	030711B-014	03/07/11 14:46
Interference Check B	1C06703-IFB2	030711B-014	03/07/11 14:46
Calibration Check	1C06703-CCV1	030711B-016	03/07/11 14:57
Calibration Check	1C06703-CCV1	030711B-016	03/07/11 14:57
Calibration Blank	1C06703-CCB1	030711B-017	03/07/11 15:04
Calibration Blank	1C06703-CCB1	030711B-017	03/07/11 15:04
Calibration Check	1C06703-CCV4	030711B-066	03/07/11 19:03
Calibration Check	1C06703-CCV4	030711B-066	03/07/11 19:03
Calibration Blank	1C06703-CCB4	030711B-067	03/07/11 19:11

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C06703	Instrument:	ME-ICP
Calibration:	1067002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Blank	1C06703-CCB4	030711B-067	03/07/11 19:11
Blank	1C04002-BLK1	030711B-068	03/07/11 19:15
LCS	1C04002-BS1	030711B-069	03/07/11 19:20
Calibration Check	1C06703-CCV5	030711B-080	03/07/11 20:14
Calibration Check	1C06703-CCV5	030711B-080	03/07/11 20:14
Calibration Blank	1C06703-CCB5	030711B-081	03/07/11 20:21
Calibration Blank	1C06703-CCB5	030711B-081	03/07/11 20:21
GW0011	1102166-01	030711B-082	03/07/11 20:26
GW0011	1C04002-MS1	030711B-083	03/07/11 20:31
GW0011	1C04002-MSD1	030711B-084	03/07/11 20:35
GW0011	1C04002-PS1	030711B-085	03/07/11 20:39
GW0011	1C04002-DUP1	030711B-086	03/07/11 20:45
GW0031	1102166-03	030711B-087	03/07/11 20:49
GW0010	1102174-01	030711B-088	03/07/11 20:54
GW0015	1102174-03	030711B-089	03/07/11 20:59
GW0036	1102174-05	030711B-090	03/07/11 21:03
GW0037	1102174-07	030711B-091	03/07/11 21:08
GW0038	1102174-09	030711B-092	03/07/11 21:13
GW0009	1102179-01	030711B-093	03/07/11 21:17
Calibration Check	1C06703-CCV6	030711B-096	03/07/11 21:32
Calibration Check	1C06703-CCV6	030711B-096	03/07/11 21:32
Calibration Blank	1C06703-CCB6	030711B-097	03/07/11 21:39
Calibration Blank	1C06703-CCB6	030711B-097	03/07/11 21:39
Blank	1C07004-BLK1	030711B-098	03/07/11 21:44
LCS	1C07004-BS1	030711B-099	03/07/11 21:49
GW0019	1102135-02	030711B-100	03/07/11 21:55
GW0020	1102135-04	030711B-101	03/07/11 22:00
GW0021	1102135-06	030711B-102	03/07/11 22:04
GW8002-RB	1102141-05	030711B-103	03/07/11 22:09
GW0022	1102141-06	030711B-104	03/07/11 22:14
GW0011	1102166-02	030711B-105	03/07/11 22:18
GW0011	1C07004-MS1	030711B-106	03/07/11 22:23

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C06703	Instrument:	ME-ICP
Calibration:	1067002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
GW0011	1C07004-MSD1	030711B-107	03/07/11 22:27
GW0011	1C07004-DUP1	030711B-108	03/07/11 22:33
GW0031	1102166-04	030711B-109	03/07/11 22:37
GW0010	1102174-02	030711B-110	03/07/11 22:42
GW0015	1102174-04	030711B-111	03/07/11 22:47
GW0036	1102174-06	030711B-112	03/07/11 22:51
Calibration Check	1C06703-CCV7	030711B-113	03/07/11 22:57
Calibration Check	1C06703-CCV7	030711B-113	03/07/11 22:57
Calibration Blank	1C06703-CCB7	030711B-114	03/07/11 23:04
Calibration Blank	1C06703-CCB7	030711B-114	03/07/11 23:04
GW0037	1102174-08	030711B-115	03/07/11 23:09
GW0038	1102174-10	030711B-116	03/07/11 23:14
GW0009	1102179-02	030711B-117	03/07/11 23:18
Calibration Check	1C06703-CCV8	030711B-124	03/07/11 23:52
Calibration Check	1C06703-CCV8	030711B-124	03/07/11 23:52
Calibration Blank	1C06703-CCB8	030711B-125	03/07/11 23:59
Calibration Blank	1C06703-CCB8	030711B-125	03/07/11 23:59

INITIAL CALIBRATION DATA

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1065001
Instrument: ME-ICP
Matrix: Water
Calibration Date: 3/4/2011 5:03:42PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	1.8646E-05	10000	1.8548E-05			500000	1.88082E-05		
Antimony	0	0	100	0.0008477	1000	9.3468E-04					10000	0.0008914
Arsenic	0	0	100	0.0003444	1000	3.7701E-04					10000	3.6742E-04
Barium	0	0	50	0.0132866	1000	0.012954	5000	0.0124574				
Beryllium	0	0	100	0.0021893	1000	0.0022015					10000	0.0020894
Boron	0	0	50	0.0000104	1000	1.112E-05					5000	1.1044E-05
Cadmium	0	0	100	0.010022	1000	0.01023					10000	0.0094732
Calcium	0	0	1100	3.059091E-05	50000	2.9798E-05					10000	
Chromium	0	0	100	0.0000268	1000	2.647E-05					10000	2.6352E-05
Cobalt	0	0	100	0.0061987	1000	0.0063478					10000	0.0061785
Copper	0	0	100	0.000086	1000	8.291E-05					10000	7.9968E-05
Iron	0	0	5100	1.398431E-05	10000	1.3205E-05			500000	1.26646E-05	10000	
Lead	0	0	100	0.0013542	1000	0.0013656					10000	0.0013353
Magnesium	0	0	5100		50000	1.3482E-06			500000	1.41838E-06	10000	
Manganese	0	0	100	0.0001863	1000	1.8115E-04	10000	1.7311E-04			10000	
Molybdenum	0	0	100	0.00448	1000	0.0047235					10000	0.0046128
Nickel	0	0	100	0.0034339	1000	0.0033907					10000	0.0033466
Potassium	0	0	1000	8.720001E-06	10000	9.574999E-06						
Selenium	0	0	100	0.0004483	1000	4.7213E-04					10000	4.4985E-04
Silver	0	0	20	0.000048	500	4.528E-05	2000	4.659E-05				
Sodium	0	0	1000		50000	4.2574E-05						
Strontium	0	0	100	0.001541	1000	0.001532					10000	0.001492
Thallium	0	0	100	0.0008051	1000	8.1409E-04					10000	8.1545E-04
Tin	0	0	50	0.0012344	1000	0.0012904					5000	1.27328E-03
Titanium	0	0	100	0.0001939	1000	1.8981E-04					10000	1.8944E-04
Vanadium	0	0	100	0.0000357	1000	3.532E-05					10000	3.5287E-05
Zinc	0	0	100	0.0044036	1000	0.0045759					10000	0.0044099

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1065001
Instrument: ME-ICP
Matrix: Water
Calibration Date: 3/4/2011 5:03:42PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	2.9604E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.3814E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.0021E-05										
Selenium												
Silver												
Sodium	100000	4.2175E-05	500000	4.2804E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1065001	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	3/4/2011 5:03:42PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.400055E-05	66.67107	16.31007	187.6103	0.9999999		0.998	
Antimony	6.68445E-04	66.87798	9.705485	184.6331	0.999973		0.998	
Arsenic	2.722075E-04	66.85594	15.86038	191.1988	0.999991		0.998	
Barium	0.0096745	66.75963	1.54154	138.5571	0.9999355		0.998	
Beryllium	1.62005E-03	66.73869	584.6727	199.5564	0.9999731		0.998	
Boron	8.141E-06	66.78462	15.85849	184.2656	0.999997		0.998	
Cadmium	0.0074313	66.80493	0.5602075	46.34734	0.999943		0.998	
Calcium	2.249823E-05	66.69366	3.175795	158.0088	0.9999996		0.998	
Chromium	1.99055E-05	66.67347	160.7787	198.124	0.9999998		0.998	
Cobalt	4.68125E-03	66.68617	3.799508	169.8847	0.9999927		0.998	
Copper	6.22195E-05	66.78407	1.153865	77.21289	0.9999898		0.998	
Iron	9.963478E-06	66.888	17.11486	190.2721	0.9999991		0.998	
Lead	1.013775E-03	66.67806	21.32041	195.0178	0.9999952		0.998	
Magnesium	1.036995E-06	66.72395	110.3708	199.5209	0.9999669		0.998	
Manganese	1.3514E-04	66.78754	9.526598	161.9792	0.999981		0.998	
Molybdenum	3.454075E-03	66.72893	9.377355	184.5709	0.9999936		0.998	
Nickel	0.0025428	66.6814	1.66548	135.0011	0.9999988		0.998	
Potassium	7.079E-06	67.10136	3.788785	136.579	0.9999885		0.998	
Selenium	3.4257E-04	66.74236	7.312383	170.5564	0.999977		0.998	
Silver	3.49675E-05	66.74229	4.35059	127.2073	0.9999417		0.998	
Sodium	3.188825E-05	66.67165	2.884698	105.1745	0.9999908		0.998	
Strontium	1.14125E-03	66.69278	8.9041	171.9615	0.9999934		0.998	
Thallium	6.0866E-04	66.67094	6.268483	174.8127	1		0.998	
Tin	9.4952E-04	66.71232	6.66803	178.8077	0.9999909		0.998	
Titanium	1.432875E-04	66.68158	4.537597	156.1651	1		0.998	
Vanadium	2.657675E-05	66.67039	2.59666	105.0725	1		0.998	
Zinc	3.34735E-03	66.70926	70.53496	198.4981	0.9999857		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1067002
Instrument: ME-ICP
Matrix: Water
Calibration Date: 3/7/2011 4:25:25PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.022E-05	10000	2.0346E-05			500000	2.037E-05		
Antimony	0	0	100	0.000882	1000	9.6457E-04					10000	9.5251E-04
Arsenic	0	0	100	0.000361	1000	3.9522E-04					10000	3.8586E-04
Barium	0	0	50	0.0130856	1000	0.01283	5000	0.012281				
Beryllium	0	0	100	0.0022492	1000	0.0022273					10000	0.0021656
Boron	0	0	50	0.0000122	1000	1.255E-05					5000	1.2474E-05
Cadmium	0	0	100	0.0099652	1000	0.010262					10000	0.0095616
Calcium	0	0	1100	3.249091E-05	50000	3.196E-05					10000	
Chromium	0	0	100	0.0000273	1000	2.628E-05					10000	2.7468E-05
Cobalt	0	0	100	0.0061859	1000	0.0063307					10000	0.0063759
Copper	0	0	100	0.0000952	1000	9.024E-05					10000	9.0412E-05
Iron	0	0	5100	1.420392E-05	10000	1.3718E-05			500000	1.3303E-05	10000	
Lead	0	0	100	0.0013551	1000	0.0013717					10000	0.001369
Magnesium	0	0	5100		50000	1.3934E-06			500000	1.46474E-06	10000	
Manganese	0	0	100	0.0001912	1000	1.8229E-04	10000	0.0001789			10000	
Molybdenum	0	0	100	0.0044855	1000	0.0047489					10000	0.0046516
Nickel	0	0	100	0.0033926	1000	0.003355					10000	0.0033356
Potassium	0	0	1000	1.083E-05	10000	1.1289E-05						
Selenium	0	0	100	0.0004622	1000	4.8144E-04					10000	4.6519E-04
Silver	0	0	20	0.00005	500	4.734E-05	2000	4.889E-05				
Sodium	0	0	1000		50000	4.9396E-05						
Strontium	0	0	100	0.001684	1000	0.001647					10000	0.001615
Thallium	0	0	100	0.0009286	1000	9.2969E-04					10000	9.3393E-04
Tin	0	0	50	0.001207	1000	0.001283					5000	1.28242E-03
Titanium	0	0	100	0.0002035	1000	1.9836E-04					10000	1.9936E-04
Vanadium	0	0	100	0.0000371	1000	3.593E-05					10000	3.7022E-05
Zinc	0	0	100	0.0041166	1000	0.0043305					10000	0.004249
Aluminum	0	0	5000	2.022E-05	10000	2.0346E-05			500000	2.037E-05		
Antimony	0	0	100	0.000882	1000	9.6457E-04					10000	9.5251E-04
Arsenic	0	0	100	0.000361	1000	3.9522E-04					10000	3.8586E-04
Barium	0	0	50	0.0130856	1000	0.01283	5000	0.012281				

INITIAL CALIBRATION DATA

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1067002
Instrument: ME-ICP
Matrix: Water
Calibration Date: 3/7/2011 4:25:25PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium	0	0	100	0.0022492	1000	0.0022273					10000	0.0021656
Boron	0	0	50	0.0000122	1000	1.255E-05					5000	1.2474E-05
Cadmium	0	0	100	0.0099652	1000	0.010262					10000	0.0095616
Calcium	0	0	1100	3.249091E-05	50000	3.196E-05					10000	
Chromium	0	0	100	0.0000273	1000	2.628E-05					10000	2.7468E-05
Cobalt	0	0	100	0.0061859	1000	0.0063307					10000	0.0063759
Copper	0	0	100	0.0000952	1000	9.024E-05					10000	9.0412E-05
Iron	0	0	5100	1.420392E-05	10000	1.3718E-05			500000	1.3303E-05	10000	
Lead	0	0	100	0.0013551	1000	0.0013717					10000	0.001369
Magnesium	0	0	5100		50000	1.3934E-06			500000	1.46474E-06	10000	
Manganese	0	0	100	0.0001912	1000	1.8229E-04	10000	0.0001789			10000	
Molybdenum	0	0	100	0.0044855	1000	0.0047489					10000	0.0046516
Nickel	0	0	100	0.0033926	1000	0.003355					10000	0.0033356
Potassium	0	0	1000	1.083E-05	10000	1.1289E-05						
Selenium	0	0	100	0.0004622	1000	4.8144E-04					10000	4.6519E-04
Silver	0	0	20	0.00005	500	4.734E-05	2000	4.889E-05				
Sodium	0	0	1000		50000	4.9396E-05						
Strontium	0	0	100	0.001684	1000	0.001647					10000	0.001615
Thallium	0	0	100	0.0009286	1000	9.2969E-04					10000	9.3393E-04
Tin	0	0	50	0.001207	1000	0.001283					5000	1.28242E-03
Titanium	0	0	100	0.0002035	1000	1.9836E-04					10000	1.9936E-04
Vanadium	0	0	100	0.0000371	1000	3.593E-05					10000	3.7022E-05
Zinc	0	0	100	0.0041166	1000	0.0043305					10000	0.004249

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1067002
Instrument: ME-ICP
Matrix: Water
Calibration Date: 3/7/2011 4:25:25PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	3.1272E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.423E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.1371E-05										
Selenium												
Silver												
Sodium	100000	4.8729E-05	500000	4.7802E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1067002
Instrument: ME-ICP
Matrix: Water
Calibration Date: 3/7/2011 4:25:25PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	3.1272E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.423E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.1371E-05										
Selenium												
Silver												
Sodium	100000	4.8729E-05	500000	4.7802E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1067002	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	3/7/2011 4:25:25PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.5234E-05	66.66807	13.34029	194.6196	1		0.998	
Antimony	6.9977E-04	66.86947	6.162305	174.6212	0.9999969		0.998	
Arsenic	2.8552E-04	66.85823	99.06558	198.5183	0.9999923		0.998	
Barium	9.54915E-03	66.75928	4.124868	183.6476	0.9999181		0.998	
Beryllium	1.660525E-03	66.70074	17.11528	194.5221	0.9999927		0.998	
Boron	9.306E-06	66.68623	8.492455	184.9034	0.9999982		0.998	
Cadmium	0.0074472	66.778	1.236732	94.55227	0.9999516		0.998	
Calcium	2.393073E-05	66.69926	4.202537	171.7484	0.9999953		0.998	
Chromium	2.0262E-05	66.71699	6.200052	177.5114	0.9999813		0.998	
Cobalt	4.723125E-03	66.68874	7.92734	185.5851	0.9999995		0.998	
Copper	6.8963E-05	66.74994	1.127863	107.2084	0.9999996		0.998	
Iron	1.030623E-05	66.76231	14.12288	193.1592	0.9999996		0.998	
Lead	1.02395E-03	66.67045	53.88325	197.5111	0.9999999		0.998	
Magnesium	1.070285E-06	66.72272	51.28272	198.7644	0.9999635		0.998	
Manganese	1.380975E-04	66.7724	4.433068	172.0152	0.9999971		0.998	
Molybdenum	0.0034715	66.74022	20.74087	192.4795	0.9999948		0.998	
Nickel	0.0025208	66.67327	0.952825	64.10861	0.9999999		0.998	
Potassium	8.3725E-06	66.72728	2.083405	141.2089	0.9999999		0.998	
Selenium	3.522075E-04	66.70986	3.071523	149.3154	0.9999885		0.998	
Silver	3.65575E-05	66.73342	7.175015	178.0332	0.9999256		0.998	
Sodium	3.648175E-05	66.69074	6.159653	166.6541	0.9999834		0.998	
Strontium	0.0012365	66.70565	3.758525	165.6724	0.9999966		0.998	
Thallium	6.98055E-04	66.66748	52.18687	196.1841	0.9999998		0.998	
Tin	9.43105E-04	66.77399	4.86132	155.1418	0.9999997		0.998	
Titanium	1.50305E-04	66.6831	6.37712	183.3968	0.9999996		0.998	
Vanadium	2.7513E-05	66.69493	3.366955	163.2452	0.9999909		0.998	
Zinc	3.174025E-03	66.72448	7.15359	177.8137	0.9999957		0.998	
Aluminum	1.5234E-05	66.66807	13.34029	194.6196	1		0.998	
Antimony	6.9977E-04	66.86947	6.162305	174.6212	0.9999969		0.998	
Arsenic	2.8552E-04	66.85823	99.06558	198.5183	0.9999923		0.998	
Barium	9.54915E-03	66.75928	4.124868	183.6476	0.9999181		0.998	
Beryllium	1.660525E-03	66.70074	17.11528	194.5221	0.9999927		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1067002	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	3/7/2011 4:25:25PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	9.306E-06	66.68623	8.492455	184.9034	0.9999982		0.998	
Cadmium	0.0074472	66.778	1.236732	94.55227	0.9999516		0.998	
Calcium	2.393073E-05	66.69926	4.202537	171.7484	0.9999953		0.998	
Chromium	2.0262E-05	66.71699	6.200052	177.5114	0.9999813		0.998	
Cobalt	4.723125E-03	66.68874	7.92734	185.5851	0.9999995		0.998	
Copper	6.8963E-05	66.74994	1.127863	107.2084	0.9999996		0.998	
Iron	1.030623E-05	66.76231	14.12288	193.1592	0.9999996		0.998	
Lead	1.02395E-03	66.67045	53.88325	197.5111	0.9999999		0.998	
Magnesium	1.070285E-06	66.72272	51.28272	198.7644	0.9999635		0.998	
Manganese	1.380975E-04	66.7724	4.433068	172.0152	0.9999971		0.998	
Molybdenum	0.0034715	66.74022	20.74087	192.4795	0.9999948		0.998	
Nickel	0.0025208	66.67327	0.952825	64.10861	0.9999999		0.998	
Potassium	8.3725E-06	66.72728	2.083405	141.2089	0.9999999		0.998	
Selenium	3.522075E-04	66.70986	3.071523	149.3154	0.9999885		0.998	
Silver	3.65575E-05	66.73342	7.175015	178.0332	0.9999256		0.998	
Sodium	3.648175E-05	66.69074	6.159653	166.6541	0.9999834		0.998	
Strontium	0.0012365	66.70565	3.758525	165.6724	0.9999966		0.998	
Thallium	6.98055E-04	66.66748	52.18687	196.1841	0.9999998		0.998	
Tin	9.43105E-04	66.77399	4.86132	155.1418	0.9999997		0.998	
Titanium	1.50305E-04	66.6831	6.37712	183.3968	0.9999996		0.998	
Vanadium	2.7513E-05	66.69493	3.366955	163.2452	0.9999909		0.998	
Zinc	3.174025E-03	66.72448	7.15359	177.8137	0.9999957		0.998	

Data for Wet Chemistry Forms

ANALYSIS DATA SHEET

GW0019

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/14/11 16:45
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102135-01
Received: 02/15/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:33
18496-25-8	Sulfide		0.678	1.69	3.39	0.68	U	SM4500S2CF	1B21001	02/21/11 10:11
10-09-3	Alkalinity, Bicarbonate (as CACO3)	129	1.00	1.00	1.00	1		SM2320B	1B22004	02/22/11 10:54
16887-00-6	Chloride	18.3	0.170	0.330	1.00	1	M	E300.0	1B15026	02/15/11 20:58
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B22004	02/22/11 10:54
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	U	E300.0	1B15026	02/15/11 20:58
14808-79-8	Sulfate as SO4	39.2	0.330	1.00	2.00	1		E300.0	1B15026	02/15/11 20:58

ANALYSIS DATA SHEET

GW0020

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/14/11 16:45
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102135-03
Received: 02/15/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:34
18496-25-8	Sulfide		0.690	1.72	3.45	0.69	U	SM4500S2CF	1B21001	02/21/11 10:11
10-09-3	Alkalinity, Bicarbonate (as CACO3)	129	1.00	1.00	1.00	1		SM2320B	1B22004	02/22/11 10:54
16887-00-6	Chloride	18.6	0.170	0.330	1.00	1	M	E300.0	1B15026	02/15/11 21:16
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B22004	02/22/11 10:54
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	U	E300.0	1B15026	02/15/11 21:16
14808-79-8	Sulfate as SO4	39.9	0.330	1.00	2.00	1		E300.0	1B15026	02/15/11 21:16

ANALYSIS DATA SHEET

GW0021

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/14/11 11:17
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102135-05
Received: 02/15/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:35
18496-25-8	Sulfide		0.714	1.79	3.57	0.71	U	SM4500S2CF	1B21001	02/21/11 10:12
10-09-3	Alkalinity, Bicarbonate (as CACO3)	127	1.00	1.00	1.00	1		SM2320B	1B22004	02/22/11 10:54
16887-00-6	Chloride	10.5	0.170	0.330	1.00	1	M	E300.0	1B15026	02/15/11 21:33
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B22004	02/22/11 10:54
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	U	E300.0	1B15026	02/15/11 21:33
14808-79-8	Sulfate as SO4	33.0	0.330	1.00	2.00	1		E300.0	1B15026	02/15/11 21:33

ANALYSIS DATA SHEET

GW0022

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/15/11 13:59
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102141-01
Received: 02/16/11 08:30

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:36
18496-25-8	Sulfide		0.714	1.79	3.57	0.71	U	SM4500S2CF	1B21001	02/21/11 10:13
10-09-3	Alkalinity, Bicarbonate (as CACO3)	121	1.00	1.00	1.00	1		SM2320B	1B22004	02/22/11 10:54
16887-00-6	Chloride	21.4	0.170	0.330	1.00	1	M	E300.0	1B16011	02/16/11 16:23
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B22004	02/22/11 10:54
14797-55-8	Nitrate as N	0.244	0.0330	0.100	0.200	1		E300.0	1B16011	02/16/11 16:23
14808-79-8	Sulfate as SO4	61.5	0.330	1.00	2.00	1		E300.0	1B16011	02/16/11 16:23

ANALYSIS DATA SHEET

GW0011

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/16/11 10:45
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102166-01
Received: 02/17/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:37
18496-25-8	Sulfide		0.690	1.72	3.45	0.69	U N	SM4500S2CF	1B23014	02/23/11 14:06
10-09-3	Alkalinity, Bicarbonate (as CACO3)	138	1.00	1.00	1.00	1	N	SM2320B	1B22021	02/22/11 16:21
16887-00-6	Chloride	64.8	0.170	0.330	1.00	1	M	E300.0	1B17014	02/17/11 19:19
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B22021	02/22/11 16:21
14797-55-8	Nitrate as N	0.0330	0.0330	0.100	0.200	1	J	E300.0	1B17014	02/17/11 19:19
14808-79-8	Sulfate as SO4	79.2	0.330	1.00	2.00	1		E300.0	1B17014	02/17/11 19:19

ANALYSIS DATA SHEET

GW0031

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/16/11 15:05
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102166-03
Received: 02/17/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:39
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U N	SM4500S2CF	1B23014	02/23/11 14:07
10-09-3	Alkalinity, Bicarbonate (as CACO3)	138	1.00	1.00	1.00	1		SM2320B	1B23024	02/24/11 09:44
16887-00-6	Chloride	18.6	0.170	0.330	1.00	1	M	E300.0	1B17014	02/17/11 20:29
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B23024	02/24/11 09:44
14797-55-8	Nitrate as N	0.0490	0.0330	0.100	0.200	1	J	E300.0	1B17014	02/17/11 20:29
14808-79-8	Sulfate as SO4	37.7	0.330	1.00	2.00	1		E300.0	1B17014	02/17/11 20:29

ANALYSIS DATA SHEET

GW0010

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/17/11 14:56
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102174-01
Received: 02/18/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:40
18496-25-8	Sulfide		0.769	1.92	3.85	0.77	U N	SM4500S2CF	1B23014	02/23/11 14:10
10-09-3	Alkalinity, Bicarbonate (as CACO3)	141	1.00	1.00	1.00	1		SM2320B	1B23024	02/24/11 09:52
16887-00-6	Chloride	50.2	0.170	0.330	0.500	1		E300.0	1B18017	02/18/11 16:15
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B23024	02/24/11 09:52
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	U	E300.0	1B18017	02/18/11 16:15
14808-79-8	Sulfate as SO4	14.9	0.330	1.00	2.00	1		E300.0	1B18017	02/18/11 16:15

ANALYSIS DATA SHEET

GW0015

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/17/11 11:10
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102174-03
Received: 02/18/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:41
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U N	SM4500S2CF	1B23014	02/23/11 14:11
10-09-3	Alkalinity, Bicarbonate (as CACO3)	170	1.00	1.00	1.00	1		SM2320B	1B23024	02/24/11 10:18
16887-00-6	Chloride	14.1	0.170	0.330	0.500	1		E300.0	1B18017	02/18/11 17:25
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B23024	02/24/11 10:18
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	U	E300.0	1B18017	02/18/11 17:25
14808-79-8	Sulfate as SO4	33.9	0.330	1.00	2.00	1		E300.0	1B18017	02/18/11 17:25

ANALYSIS DATA SHEET

GW0036

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/17/11 10:18
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102174-05
Received: 02/18/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:42
18496-25-8	Sulfide		0.714	1.79	3.57	0.71	U N	SM4500S2CF	1B23014	02/23/11 14:13
10-09-3	Alkalinity, Bicarbonate (as CACO3)	96.0	1.00	1.00	1.00	1		SM2320B	1B23024	02/24/11 10:36
16887-00-6	Chloride	46.7	0.170	0.330	0.500	1		E300.0	1B18017	02/19/11 14:37
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B23024	02/24/11 10:36
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	H1 U	E300.0	1B18017	02/19/11 14:37
14808-79-8	Sulfate as SO4	33.3	0.330	1.00	2.00	1		E300.0	1B18017	02/19/11 14:37

ANALYSIS DATA SHEET

GW0037

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/17/11 10:50
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102174-07
Received: 02/18/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:43
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U N	SM4500S2CF	1B23014	02/23/11 14:14
10-09-3	Alkalinity, Bicarbonate (as CACO3)	95.2	1.00	1.00	1.00	1		SM2320B	1B23024	02/24/11 10:41
16887-00-6	Chloride	57.6	0.170	0.330	0.500	1		E300.0	1B18017	02/19/11 14:55
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B23024	02/24/11 10:41
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	H1 U	E300.0	1B18017	02/19/11 14:55
14808-79-8	Sulfate as SO4	34.1	0.330	1.00	2.00	1		E300.0	1B18017	02/19/11 14:55

ANALYSIS DATA SHEET

GW0038

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/17/11 10:50
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102174-09
Received: 02/18/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:46
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U N	SM4500S2CF	1B23014	02/23/11 14:14
10-09-3	Alkalinity, Bicarbonate (as CACO3)	96.8	1.00	1.00	1.00	1		SM2320B	1B23024	02/24/11 10:49
16887-00-6	Chloride	57.5	0.170	0.330	0.500	1		E300.0	1B18017	02/19/11 15:12
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1B23024	02/24/11 10:49
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	H1 U	E300.0	1B18017	02/19/11 15:12
14808-79-8	Sulfate as SO4	34.1	0.330	1.00	2.00	1		E300.0	1B18017	02/19/11 15:12

ANALYSIS DATA SHEET

GW0009

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/18/11 13:06
% Solids: 0.00

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1102179-01
Received: 02/19/11 09:30

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:47
18496-25-8	Sulfide		0.690	1.72	3.45	0.69	U N	SM4500S2CF	1B23014	02/23/11 14:15
10-09-3	Alkalinity, Bicarbonate (as CACO3)	202	1.00	1.00	1.00	1		SM2320B	1C02007	03/02/11 10:40
16887-00-6	Chloride	12.9	0.170	0.330	0.500	1		E300.0	1B19005	02/19/11 21:18
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1C02007	03/02/11 10:40
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	U	E300.0	1B19005	02/19/11 21:18
14808-79-8	Sulfate as SO4	25.9	0.330	1.00	2.00	1		E300.0	1B19005	02/19/11 21:18

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_004
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 0J29503

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
0J29503-ICV1	Chloride	4.800	4.639	96.6	mg/L	+/- 10.00%
	Nitrate as N	3.616	3.531	97.6	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	23.53	98.0	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_004
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B04712

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04712-CCV1	Chloride	25.00	26.25	105	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.547	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	27.11	108	mg/L	+/- 10.00%
1B04712-CCV2	Chloride	25.00	26.47	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.557	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.39	106	mg/L	+/- 10.00%
1B04712-CCV3	Chloride	25.00	26.54	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.557	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.26	105	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_004
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B04816

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B04816-CCV1	Chloride	25.00	26.72	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.585	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.62	106	mg/L	+/- 10.00%
1B04816-CCV2	Chloride	25.00	26.76	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.592	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.49	106	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_004
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B05512

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B05512-CCV1	Chloride	25.00	26.75	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.589	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	27.11	108	mg/L	+/- 10.00%
1B05512-CCV2	Chloride	25.00	26.66	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.577	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.73	107	mg/L	+/- 10.00%
1B05512-CCV3	Chloride	25.00	26.57	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.579	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.35	105	mg/L	+/- 10.00%
1B05512-CCV4	Chloride	25.00	26.58	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.573	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.56	106	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: kirtland_004
Project: Kirtland AFB 2011
Calibration: 1062002
Sequence: 1B05523

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B05523-ICV1	Ammonia as N	2.000	2.119	106	mg/L	+/- 10.00%
1B05523-CCV1	Ammonia as N	2.000	2.077	104	mg/L	+/- 10.00%
1B05523-CCV2	Ammonia as N	2.000	2.060	103	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_004
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1C06707

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1C06707-CCV1	Chloride	25.00	26.74	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.569	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.45	106	mg/L	+/- 10.00%
1C06707-CCV2	Chloride	25.00	26.77	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.584	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.56	106	mg/L	+/- 10.00%
1C06707-CCV3	Chloride	25.00	26.65	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.583	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.45	106	mg/L	+/- 10.00%
1C06707-CCV4	Chloride	25.00	26.64	107	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.582	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.46	106	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 0J29503

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
0J29503-CRL2	Chloride	1.000	0.8730	87.3	mg/L	75 - 125
	Nitrate as N	0.1000	0.09500	95.0	mg/L	75 - 125
	Sulfate as SO4	1.000	1.023	102	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 1B04712

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B04712-CRL1	Chloride	1.000	0.8790	87.9	mg/L	75 - 125
	Nitrate as N	0.1000	0.09800	98.0	mg/L	75 - 125
1B04712-CRL2	Sulfate as SO4	1.000	1.050	105	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 0295001

Sequence: 1B04816

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B04816-CRL1	Chloride	1.000	0.9390	93.9	mg/L	75 - 125
	Nitrate as N	0.1000	0.09800	98.0	mg/L	75 - 125
	Sulfate as SO4	1.000	1.092	109	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 1B05512

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B05512-CRL1	Nitrate as N	0.05000	0.05200	104	mg/L	75 - 125
1B05512-CRL2	Chloride	1.000	0.9350	93.5	mg/L	75 - 125
1B05512-CRL3	Sulfate as SO4	1.000	1.077	108	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: WC-IC

Calibration: 0295001

Sequence: 1C06707

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1C06707-CRL1	Chloride	0.5000	0.3990	79.8	mg/L	75 - 125
	Nitrate as N	0.05000	0.05100	102	mg/L	75 - 125
1C06707-CRL2	Sulfate as SO4	1.000	1.064	106	mg/L	75 - 125

METHOD BLANKS

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B15026

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B15026-BLK1	Chloride	0.131	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0970	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B16011

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B16011-BLK1	Chloride	0.00200	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.101	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B17014

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B17014-BLK1	Chloride	-0.0210	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0910	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B18017

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B18017-BLK1	Chloride	0.0290	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.117	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B19005

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B19005-BLK1	Chloride	-0.0810	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0750	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B21001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B21001-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B22004

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B22004-BLK1	Alkalinity, Total (as CACO3)	0.817	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B22021

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B22021-BLK1	Alkalinity, Total (as CACO3)	0.408	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B23014

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B23014-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B23022

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B23022-BLK1	Ammonia as N	-0.0281	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B23024

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B23024-BLK1	Alkalinity, Total (as CACO3)	0.408	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1C02007

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C02007-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 0J29503
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
0J29503-ICB1	Chloride	0.01700	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.000	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.08000	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04712
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04712-CCB1	Chloride	0.0860	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.303	0.330	2.00	mg/L	U	E300.0
1B04712-CCB2	Chloride	0.119	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.112	0.330	2.00	mg/L	U	E300.0
1B04712-CCB3	Chloride	0.578	0.170	0.500	mg/L		E300.0
	Nitrate as N	0.0240	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.195	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B04816
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B04816-CCB1	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.107	0.330	2.00	mg/L	U	E300.0
1B04816-CCB2	Chloride	-0.00300	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0950	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05512
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B05512-CCB1	Chloride	-0.0340	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0980	0.330	2.00	mg/L	U	E300.0
1B05512-CCB2	Chloride	0.0200	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.107	0.330	2.00	mg/L	U	E300.0
1B05512-CCB3	Chloride	-0.0310	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.268	0.330	2.00	mg/L	U	E300.0
1B05512-CCB4	Chloride	-0.0730	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0910	0.330	2.00	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05523
Calibration: 1062002
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B05523-ICB1	Ammonia as N	-0.01509	0.110	0.300	mg/L	U	SM4500NH3BG
1B05523-CCB1	Ammonia as N	-0.0126	0.110	0.300	mg/L	U	SM4500NH3BG
1B05523-CCB2	Ammonia as N	-0.0102	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C06707
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C06707-CCB1	Chloride	0.0230	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.131	0.330	2.00	mg/L	U	E300.0
1C06707-CCB2	Chloride	-0.0620	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0840	0.330	2.00	mg/L	U	E300.0
1C06707-CCB3	Chloride	-0.0820	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0780	0.330	2.00	mg/L	U	E300.0
1C06707-CCB4	Chloride	-0.0760	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0810	0.330	2.00	mg/L	U	E300.0

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0011

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

Batch: 1B17014

% Solids:

SDG: kirtland_004

Project: Kirtland AFB 2011

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	64.81	94.09	105		80 - 120
Nitrate as N	2.778	0.03300	2.858	102		80 - 120
Sulfate as SO4	27.78	79.25	107.8	103		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	94.21	106	0.131		20	80 - 120
Nitrate as N	2.778	2.866	102	0.272		20	80 - 120
Sulfate as SO4	27.78	107.8	103	0.00622		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

E300.0

GW0010

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

Batch: 1B18017

% Solids:

SDG: kirtland_004

Project: Kirtland AFB 2011

Source Sample Name: **1102174-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Chloride	27.78	50.17	79.44	105		80 - 120
Nitrate as N	2.778	ND	2.804	101		80 - 120
Sulfate as SO4	27.78	14.93	43.57	103		80 - 120

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Chloride	27.78	79.52	106	0.101		20	80 - 120
Nitrate as N	2.778	2.804	101	0.00		20	80 - 120
Sulfate as SO4	27.78	43.58	103	0.0230		20	80 - 120

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM2320B

GW0011

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B22021
% Solids:
Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	138.1	231.5	84.1		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Alkalinity, Total (as CACO3)	111.1	221.0	74.7	4.61	N	20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500S2CF

GW0011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_004

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Matrix: Water

Batch: 1B23014

% Solids:

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Sulfide	1267	ND	908.7	71.7	N	75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1267	850.7	67.1	6.59	N	20	75 - 125

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM4500NH3BG

GW0011

Laboratory: Empirical Laboratories, LLC

Client: Shaw E & I (I700)

Matrix: Water

Batch: 1B23022

% Solids:

SDG: kirtland_004

Project: Kirtland AFB 2011

Source Sample Name: **1102166-01**

ANALYTE	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC.	Q	QC LIMITS REC.
Ammonia as N	5.000	ND	4.147	82.9		75 - 125

ANALYTE	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD	Q	QC LIMITS RPD	QC LIMITS REC.
Ammonia as N	5.000	4.158	83.2	0.265		20	75 - 125

DUPLICATES

GW0011

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1B17014
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0011

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1B17014-DUP2
Lab Source ID: 1102166-01
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	64.8	64.52	0.442		E300.0
Nitrate as N	20	0.0330 J	0.200 J	5.88		E300.0
Sulfate as SO4	20	79.2	79.26	0.0151		E300.0

DUPLICATES

GW0010

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Batch: 1B18017
Preparation: WC_PREP_ANIONS_W
Source Sample Name: GW0010

SDG: kirtland_004
Project: Kirtland AFB 2011
Laboratory ID: 1B18017-DUP1
Lab Source ID: 1102174-01
Initial/Final: 5 mL / 5 mL
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	DUPLICATE CONCENTRATION (mg/L)	RPD %	Q	METHOD
Chloride	20	50.2	50.02	0.307		E300.0
Nitrate as N	20	0.200 U	0.200 U			E300.0
Sulfate as SO4	20	14.9	14.90	0.174		E300.0

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B15026	Laboratory ID:	1B15026-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.262	110	90 - 110
Nitrate as N	3.616	3.725	103	90 - 110
Sulfate as SO4	24.00	25.65	107	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B16011	Laboratory ID:	1B16011-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.266	110	90 - 110
Nitrate as N	3.616	3.705	102	90 - 110
Sulfate as SO4	24.00	25.42	106	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B17014	Laboratory ID:	1B17014-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.870	101	90 - 110
Nitrate as N	3.616	3.652	101	90 - 110
Sulfate as SO4	24.00	24.99	104	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B18017	Laboratory ID:	1B18017-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.888	102	90 - 110
Nitrate as N	3.616	3.682	102	90 - 110
Sulfate as SO4	24.00	25.21	105	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B19005	Laboratory ID:	1B19005-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	4.853	101	90 - 110
Nitrate as N	3.616	3.645	101	90 - 110
Sulfate as SO4	24.00	25.09	105	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B21001	Laboratory ID:	1B21001-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1307	1083	82.9	80 - 120

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Sulfide	1307	1083	82.9	0.00	20	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B22004	Laboratory ID:	1B22004-BS1
Preparation:	pNone	Initial/Final:	25 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	200.0	202.2	101	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B22021	Laboratory ID:	1B22021-BS1
Preparation:	pNone	Initial/Final:	25 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	200.0	208.3	104	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B23014	Laboratory ID:	1B23014-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1267	1033	81.5	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B23022	Laboratory ID:	1B23022-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	4.337	86.7	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B23024	Laboratory ID:	1B23024-BS1
Preparation:	pNone	Initial/Final:	25 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	200.0	198.1	99.1	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C02007	Laboratory ID:	1C02007-BS1
Preparation:	pNone	Initial/Final:	5 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	1000	1072	107	80 - 120

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_004

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:**

Analyte	MDL	MRL	Units	Method
Alkalinity, Bicarbonate (as CACO3)	1.00	1.00	mg/L	SM2320B
Alkalinity, Carbonate (as CACO3)	1.00	1.00	mg/L	SM2320B
Sulfide	0.800	4.00	mg/L	SM4500S2CF

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_004

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** WC-IC

Analyte	MDL	MRL	Units	Method
Chloride	0.170	0.500	mg/L	E300.0
Nitrate as N	0.0330	0.200	mg/L	E300.0
Sulfate as SO4	0.330	2.00	mg/L	E300.0

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_004

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** WC-Lachat

Analyte	MDL	MRL	Units	Method
Ammonia as N	0.110	0.300	mg/L	SM4500NH3BG

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B15026 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0019	1102135-01	02/15/11 17:08	5.00	5.00
GW0019	1102135-01	02/15/11 17:08	5.00	5.00
GW0020	1102135-03	02/15/11 17:08	5.00	5.00
GW0020	1102135-03	02/15/11 17:08	5.00	5.00
GW0021	1102135-05	02/15/11 17:08	5.00	5.00
GW0021	1102135-05	02/15/11 17:08	5.00	5.00
Blank	1B15026-BLK1	02/15/11 17:08	5.00	5.00
LCS	1B15026-BS1	02/15/11 17:08	5.00	5.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B16011 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0022	1102141-01	02/16/11 14:01	5.00	5.00
GW0022	1102141-01	02/16/11 14:01	5.00	5.00
Blank	1B16011-BLK1	02/16/11 14:01	5.00	5.00
LCS	1B16011-BS1	02/16/11 14:01	5.00	5.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B17014 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0011	1102166-01	02/17/11 14:01	5.00	5.00
GW0011	1102166-01	02/17/11 14:01	5.00	5.00
GW0031	1102166-03	02/17/11 14:01	5.00	5.00
GW0031	1102166-03	02/17/11 14:01	5.00	5.00
Blank	1B17014-BLK1	02/17/11 14:11	5.00	5.00
LCS	1B17014-BS1	02/17/11 14:11	5.00	5.00
GW0011	1B17014-DUP2	02/17/11 14:11	5.00	5.00
GW0011	1B17014-MS2	02/17/11 14:11	22.50	25.00
GW0011	1B17014-MSD2	02/17/11 14:11	22.50	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B18017 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0010	1102174-01	02/18/11 13:25	5.00	5.00
GW0010	1102174-01	02/18/11 13:25	5.00	5.00
GW0015	1102174-03	02/18/11 13:25	5.00	5.00
GW0015	1102174-03	02/18/11 13:25	5.00	5.00
GW0036	1102174-05	02/18/11 13:25	5.00	5.00
GW0036	1102174-05	02/18/11 13:25	5.00	5.00
GW0037	1102174-07	02/18/11 13:25	5.00	5.00
GW0037	1102174-07	02/18/11 13:25	5.00	5.00
GW0038	1102174-09	02/18/11 13:25	5.00	5.00
GW0038	1102174-09	02/18/11 13:25	5.00	5.00
Blank	1B18017-BLK1	02/18/11 13:25	5.00	5.00
LCS	1B18017-BS1	02/18/11 13:25	5.00	5.00
GW0010	1B18017-DUP1	02/18/11 13:25	5.00	5.00
GW0010	1B18017-MS1	02/18/11 13:25	22.50	25.00
GW0010	1B18017-MSD1	02/18/11 13:25	22.50	25.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B19005 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0009	1102179-01	02/19/11 14:33	5.00	5.00
GW0009	1102179-01	02/19/11 14:33	5.00	5.00
Blank	1B19005-BLK1	02/19/11 14:33	5.00	5.00
LCS	1B19005-BS1	02/19/11 14:33	5.00	5.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B21001 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0019	1102135-01	02/21/11 09:33	295.00	200.00
GW0020	1102135-03	02/21/11 09:33	290.00	200.00
GW0021	1102135-05	02/21/11 09:33	280.00	200.00
GW0022	1102141-01	02/21/11 09:33	280.00	200.00
Blank	1B21001-BLK1	02/21/11 09:33	250.00	200.00
LCS	1B21001-BS1	02/21/11 09:33	3.00	250.00
LCS Dup	1B21001-BSD1	02/21/11 09:33	3.00	250.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B22004 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0019	1102135-01	02/22/11 09:02	25.00	25.00
GW0020	1102135-03	02/22/11 09:02	25.00	25.00
GW0021	1102135-05	02/22/11 09:02	25.00	25.00
GW0022	1102141-01	02/22/11 09:02	25.00	25.00
Blank	1B22004-BLK1	02/22/11 09:02	25.00	25.00
LCS	1B22004-BS1	02/22/11 09:02	25.00	25.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B22021 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0011	1102166-01	02/22/11 14:46	25.00	25.00
Blank	1B22021-BLK1	02/22/11 14:46	25.00	25.00
LCS	1B22021-BS1	02/22/11 14:46	25.00	25.00
GW0011	1B22021-MS1	02/22/11 14:46	22.50	25.00
GW0011	1B22021-MSD1	02/22/11 14:46	22.50	25.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B23014 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0011	1102166-01	02/23/11 11:16	290.00	200.00
GW0031	1102166-03	02/23/11 11:16	270.00	200.00
GW0010	1102174-01	02/23/11 11:16	260.00	200.00
GW0015	1102174-03	02/23/11 11:16	270.00	200.00
GW0036	1102174-05	02/23/11 11:16	280.00	200.00
GW0037	1102174-07	02/23/11 11:16	270.00	200.00
GW0038	1102174-09	02/23/11 11:16	270.00	200.00
GW0009	1102179-01	02/23/11 11:16	290.00	200.00
Blank	1B23014-BLK1	02/23/11 11:16	250.00	200.00
LCS	1B23014-BS1	02/23/11 11:16	3.00	250.00
GW0011	1B23014-MS1	02/23/11 11:16	3.00	290.00
GW0011	1B23014-MSD1	02/23/11 11:16	3.00	290.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B23022 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0019	1102135-01	02/23/11 16:00	100.00	100.00
GW0020	1102135-03	02/23/11 16:00	100.00	100.00
GW0021	1102135-05	02/23/11 16:00	100.00	100.00
GW0022	1102141-01	02/23/11 16:00	100.00	100.00
GW0011	1102166-01	02/23/11 16:00	100.00	100.00
GW0031	1102166-03	02/23/11 16:00	100.00	100.00
GW0010	1102174-01	02/23/11 16:00	100.00	100.00
GW0015	1102174-03	02/23/11 16:00	100.00	100.00
GW0036	1102174-05	02/23/11 16:00	100.00	100.00
GW0037	1102174-07	02/23/11 16:00	100.00	100.00
GW0038	1102174-09	02/23/11 16:00	100.00	100.00
GW0009	1102179-01	02/23/11 16:00	100.00	100.00
Blank	1B23022-BLK1	02/23/11 16:00	100.00	100.00
LCS	1B23022-BS1	02/23/11 16:00	100.00	100.00
GW0011	1B23022-MS1	02/23/11 16:00	100.00	100.00
GW0011	1B23022-MSD1	02/23/11 16:00	100.00	100.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B23024 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0031	1102166-03	02/24/11 08:00	25.00	25.00
GW0010	1102174-01	02/24/11 08:00	25.00	25.00
GW0015	1102174-03	02/24/11 08:00	25.00	25.00
GW0036	1102174-05	02/24/11 08:00	25.00	25.00
GW0037	1102174-07	02/24/11 08:00	25.00	25.00
GW0038	1102174-09	02/24/11 08:00	25.00	25.00
Blank	1B23024-BLK1	02/24/11 08:00	25.00	25.00
LCS	1B23024-BS1	02/24/11 08:00	25.00	25.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_004

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C02007 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0009	1102179-01	03/02/11 08:52	25.00	25.00
Blank	1C02007-BLK1	03/02/11 08:52	25.00	25.00
LCS	1C02007-BS1	03/02/11 08:52	5.00	25.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence:
Instrument:
Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	1B22004-BS1	022211A-003	02/22/11 10:54
Blank	1B22004-BLK1	022211A-004	02/22/11 10:54
Blank	1B22021-BLK1	022211B-004	02/22/11 15:37
LCS	1B22021-BS1	022211B-003	02/22/11 15:41
GW0011	1B22021-MS1	022211B-012	02/22/11 15:51
GW0011	1B22021-MSD1	022211B-013	02/22/11 16:02
Blank	1B23024-BLK1	022411A-004	02/24/11 09:05
LCS	1B23024-BS1	022411A-003	02/24/11 09:09
Blank	1C02007-BLK1	030211A-004	03/02/11 09:50
LCS	1C02007-BS1	030211A-003	03/02/11 09:57

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence:
Instrument:
Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1B21001-BLK1	022111-004	02/21/11 10:16
LCS	1B21001-BS1	022111-002	02/21/11 10:21
LCS Dup	1B21001-BSD1	022111-003	02/21/11 10:22
Blank	1B23014-BLK1	022311-003	02/23/11 14:05
GW0011	1B23014-MS1	022311-022	02/23/11 14:19
GW0011	1B23014-MSD1	022311-023	02/23/11 14:20
LCS	1B23014-BS1	022311-002	02/23/11 14:20

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0J29503	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0J29503-CAL1	102110curve-057	10/21/10 10:28
Cal Standard	0J29503-CAL2	102110curve-058	10/21/10 10:45
Cal Standard	0J29503-CAL3	102110curve-059	10/21/10 11:02
Cal Standard	0J29503-CAL4	102110curve-060	10/21/10 11:20
Cal Standard	0J29503-CAL5	102110curve-061	10/21/10 11:37
Cal Standard	0J29503-CAL6	102110curve-062	10/21/10 11:55
Cal Standard	0J29503-CAL7	102110curve-063	10/21/10 12:12
Cal Standard	0J29503-CAL8	102110curve-064	10/21/10 12:29
Initial Cal Check	0J29503-ICV1	102110curve-065	10/21/10 12:47
Initial Cal Blank	0J29503-ICB1	102110curve-066	10/21/10 13:04
Instrument RL Check	0J29503-CRL2	102110curve-068	10/21/10 13:39

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04712	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04712-CCV1	021511-002	02/15/11 19:31
Calibration Blank	1B04712-CCB1	021511-003	02/15/11 19:49
Instrument RL Check	1B04712-CRL1	021511-004	02/15/11 20:06
LCS	1B15026-BS1	021511-005	02/15/11 20:23
Blank	1B15026-BLK1	021511-006	02/15/11 20:41
GW0019	1102135-01	021511-007	02/15/11 20:58
GW0020	1102135-03	021511-008	02/15/11 21:16
GW0021	1102135-05	021511-009	02/15/11 21:33
Calibration Check	1B04712-CCV2	021511-020	02/16/11 00:44
Calibration Blank	1B04712-CCB2	021511-021	02/16/11 01:02
Instrument RL Check	1B04712-CRL2	021511-035	02/16/11 05:06
Calibration Check	1B04712-CCV3	021511-036	02/16/11 05:23
Calibration Blank	1B04712-CCB3	021511-037	02/16/11 05:40

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B04816	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B04816-CCV1	021611-002	02/16/11 14:56
Calibration Blank	1B04816-CCB1	021611-003	02/16/11 15:13
Instrument RL Check	1B04816-CRL1	021611-004	02/16/11 15:31
LCS	1B16011-BS1	021611-005	02/16/11 15:48
Blank	1B16011-BLK1	021611-006	02/16/11 16:06
GW0022	1102141-01	021611-007	02/16/11 16:23
Calibration Check	1B04816-CCV2	021611-014	02/16/11 18:25
Calibration Blank	1B04816-CCB2	021611-015	02/16/11 18:42

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_004
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05512	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B05512-CCV1	021711-002	02/17/11 14:58
Calibration Blank	1B05512-CCB1	021711-003	02/17/11 15:15
Instrument RL Check	1B05512-CRL1	021711-004	02/17/11 15:33
Instrument RL Check	1B05512-CRL2	021711-005	02/17/11 15:50
LCS	1B17014-BS1	021711-006	02/17/11 16:07
Blank	1B17014-BLK1	021711-007	02/17/11 16:25
Calibration Check	1B05512-CCV2	021711-015	02/17/11 18:44
Calibration Blank	1B05512-CCB2	021711-016	02/17/11 19:01
GW0011	1102166-01	021711-017	02/17/11 19:19
GW0011	1B17014-MS2	021711-018	02/17/11 19:36
GW0011	1B17014-MSD2	021711-019	02/17/11 19:54
GW0011	1B17014-DUP2	021711-020	02/17/11 20:11
GW0031	1102166-03	021711-021	02/17/11 20:29
Calibration Check	1B05512-CCV3	021711-027	02/17/11 22:13
Calibration Blank	1B05512-CCB3	021711-028	02/17/11 22:30
Instrument RL Check	1B05512-CRL3	021711-029	02/17/11 22:48
Calibration Check	1B05512-CCV4	021711-040	02/18/11 01:59
Calibration Blank	1B05512-CCB4	021711-041	02/18/11 02:17

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05523
Instrument: WC-Lachat
Calibration: 1062002

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B05523-CAL1	M_2-24-2011_11-20-31AM-00	02/24/11 11:21
Cal Standard	1B05523-CAL2	M_2-24-2011_11-20-31AM-00	02/24/11 11:22
Cal Standard	1B05523-CAL3	M_2-24-2011_11-20-31AM-00	02/24/11 11:23
Cal Standard	1B05523-CAL4	M_2-24-2011_11-20-31AM-00	02/24/11 11:24
Cal Standard	1B05523-CAL5	M_2-24-2011_11-20-31AM-00	02/24/11 11:25
Cal Standard	1B05523-CAL6	M_2-24-2011_11-20-31AM-00	02/24/11 11:26
Cal Standard	1B05523-CAL7	M_2-24-2011_11-20-31AM-00	02/24/11 11:27
Cal Standard	1B05523-CAL8	M_2-24-2011_11-20-31AM-00	02/24/11 11:28
Initial Cal Check	1B05523-ICV1	M_2-24-2011_11-20-31AM-00	02/24/11 11:29
Initial Cal Blank	1B05523-ICB1	M_2-24-2011_11-20-31AM-01	02/24/11 11:30
Blank	1B23022-BLK1	M_2-24-2011_11-20-31AM-01	02/24/11 11:31
LCS	1B23022-BS1	M_2-24-2011_11-20-31AM-01	02/24/11 11:32
GW0019	1102135-01	M_2-24-2011_11-20-31AM-01	02/24/11 11:33
GW0020	1102135-03	M_2-24-2011_11-20-31AM-01	02/24/11 11:34
GW0021	1102135-05	M_2-24-2011_11-20-31AM-01	02/24/11 11:35
GW0022	1102141-01	M_2-24-2011_11-20-31AM-01	02/24/11 11:36
GW0011	1102166-01	M_2-24-2011_11-20-31AM-01	02/24/11 11:37
GW0011	1B23022-MSD1	M_2-24-2011_11-20-31AM-01	02/24/11 11:38
GW0011	1B23022-MS1	M_2-24-2011_11-20-31AM-01	02/24/11 11:38
GW0031	1102166-03	M_2-24-2011_11-20-31AM-02	02/24/11 11:39
GW0010	1102174-01	M_2-24-2011_11-20-31AM-02	02/24/11 11:40
GW0015	1102174-03	M_2-24-2011_11-20-31AM-02	02/24/11 11:41
GW0036	1102174-05	M_2-24-2011_11-20-31AM-02	02/24/11 11:42
GW0037	1102174-07	M_2-24-2011_11-20-31AM-02	02/24/11 11:43
Calibration Check	1B05523-CCV1	M_2-24-2011_11-20-31AM-02	02/24/11 11:44
Calibration Blank	1B05523-CCB1	M_2-24-2011_11-20-31AM-02	02/24/11 11:45
GW0038	1102174-09	M_2-24-2011_11-20-31AM-02	02/24/11 11:46
GW0009	1102179-01	M_2-24-2011_11-20-31AM-02	02/24/11 11:47
Calibration Check	1B05523-CCV2	M_2-24-2011_11-20-31AM-03	02/24/11 11:57
Calibration Blank	1B05523-CCB2	M_2-24-2011_11-20-31AM-03	02/24/11 11:58

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_004
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C06707
Instrument: WC-IC
Calibration: 0295001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1C06707-CCV1	021811-002	02/18/11 14:30
Calibration Blank	1C06707-CCB1	021811-003	02/18/11 14:48
Instrument RL Check	1C06707-CRL1	021811-004	02/18/11 15:05
Instrument RL Check	1C06707-CRL2	021811-005	02/18/11 15:23
LCS	1B18017-BS1	021811-006	02/18/11 15:40
Blank	1B18017-BLK1	021811-007	02/18/11 15:57
GW0010	1102174-01	021811-008	02/18/11 16:15
GW0010	1B18017-MS1	021811-009	02/18/11 16:32
GW0010	1B18017-MSD1	021811-010	02/18/11 16:50
GW0010	1B18017-DUP1	021811-011	02/18/11 17:07
GW0015	1102174-03	021811-012	02/18/11 17:25
Calibration Check	1C06707-CCV2	021811-013	02/19/11 14:03
Calibration Blank	1C06707-CCB2	021811-014	02/19/11 14:20
GW0036	1102174-05	021811-015	02/19/11 14:37
GW0037	1102174-07	021811-016	02/19/11 14:55
GW0038	1102174-09	021811-017	02/19/11 15:12
Calibration Check	1C06707-CCV3	021811-027	02/19/11 18:06
Calibration Blank	1C06707-CCB3	021811-028	02/19/11 18:24
LCS	1B19005-BS1	021811-035	02/19/11 20:26
Blank	1B19005-BLK1	021811-036	02/19/11 20:43
GW0009	1102179-01	021811-038	02/19/11 21:18
Calibration Check	1C06707-CCV4	021811-041	02/19/11 22:10
Calibration Blank	1C06707-CCB4	021811-042	02/19/11 22:27

ANALYTICAL SUMMARY DATA PACKAGE
SDG # KIRTLAND_005

PROJECT NAME: KIRTLAND AFB 2011
PROJECT LOCATION: ALBUQUERQUE, NEW MEXICO

SUBMITTAL TO:
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Original Report Date: March 14, 2011
Report Revision #: N/A
Revision Date: N/A
Total # of Pages: 204

THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Technical Lab Director, Mr. Rick Davis, is responsible for the final data produced and reported. His signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.

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Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

Changes to the Revision
This is an original submittal of the final report package.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8260B:
The method blank 1B24021-BLK1 has a positive result for Hexachlorobutadiene.

The batch spikes associated to batch 1B24021 exceeded criteria with a positive bias for Bromofrom and exceeded criteria with a negative bias for Chloroethane, Chloromethane, Dichlorodifluoromethane, and Vinyl Chloride. Due to a standard issue with the gas standard, the gas compounds exceeded criteria with a low bias. A new standard was prepared and analyzed the next day with all criteria in control.

The continuing calibration verification 1B05612-CCV1 exceeded criteria with a positive

bias for Acetone, 2-Butanone, Carbon Tetrachloride, Hexachlorobutadiene, 2-Hexanone, 4-Methyl-2-pentanone, 1,1,1-Trichloroethane, and Trichlorofluoromethane.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8015B GRO:
No anomalies or deviations are noted.

SW8015B DRO:
The continuing calibration verification 1C06012-CCV2 exceeded criteria with a positive bias for Diesel Range Organics.

The surrogate o-Terphenyl was diluted out of samples 1102203-01 and -03.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8011 EDB:
The batch spikes associated to batch 1B24008 exceeded relative percent difference criteria for 1,2-Dibromoethane on column 2.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW6010B:
Samples 1102203-03 and -05 are qualified with an M for Lead to indicate that the DL was raised due to interference.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Wet Chemistry:
No anomalies or deviations are noted.

Data Qualifiers
As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix. For DoD QSM 4.1 reporting purposes, this definition is also applied to the reported Detection Limit (DL).

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM 4.1 revisions as the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

LOQ: The Limit of Quantitation is the minimum level, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. This term is further clarified within the DoD QSM 4.1 as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

*****: An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL.

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL has been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the DL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:

The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

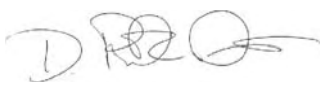
BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "**RE"** implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity is authorized to sign this Statement of Data Authenticity.



_____
Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

Sample Receipt Information

Shaw
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW018

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 21 FEB 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872679182298

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification:
Non-hazard X Flammable Skin Irritant Poison B Radiological Unknown

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation) — Date: 2/21/11 Time: 1830
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) — 1.0° Date: Time:

Comments: HIGH DISLOVED ORGANICS

1102203

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0005	KAFB1065-WG-GW0005-REG	21 FEB 2011	16:14	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0005	KAFB1065-WG-GW0005-REG	21 FEB 2011	16:14	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0005	KAFB1065-WG-GW0005-REG	21 FEB 2011	16:14	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0005	KAFB1065-WG-GW0005-REG	21 FEB 2011	16:14	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-02 GW0005	KAFB1065-WG-GW0005-REG	21 FEB 2011	16:14	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0005	KAFB1065-WG-GW0005-REG	21 FEB 2011	16:14	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		

KIRTLAND_005 Summ Package

Shaw
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW018

1102203

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0005	KAFB1065-WG-GW0005-REG	21 FEB 2011	16:14	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0005	KAFB1065-WG-GW0005-REG	21 FEB 2011	16:14	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0005	KAFB1065-WG-GW0005-REG	21 FEB 2011	16:14	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0005	KAFB1065-WG-GW0005-REG	21 FEB 2011	16:14	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
-03 GW0006	KAFB1065-WG-GW0006-FD	21 FEB 2011	16:14	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0006	KAFB1065-WG-GW0006-FD	21 FEB 2011	16:14	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0006	KAFB1065-WG-GW0006-FD	21 FEB 2011	16:14	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0006	KAFB1065-WG-GW0006-FD	21 FEB 2011	16:14	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0006	KAFB1065-WG-GW0006-FD	21 FEB 2011	16:14	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-04 GW0006	KAFB1065-WG-GW0006-FD	21 FEB 2011	16:14	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0006	KAFB1065-WG-GW0006-FD	21 FEB 2011	16:14	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-03 GW0006	KAFB1065-WG-GW0006-FD	21 FEB 2011	16:14	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0006	KAFB1065-WG-GW0006-FD	21 FEB 2011	16:14	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0006	KAFB1065-WG-GW0006-FD	21 FEB 2011	16:14	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
-05 GW0007	KAFB1066-WG-GW0007-REG	21 FEB 2011	10:36	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
GW0007	KAFB1066-WG-GW0007-REG	21 FEB 2011	10:36	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
GW0007	KAFB1066-WG-GW0007-REG	21 FEB 2011	10:36	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
GW0007	KAFB1066-WG-GW0007-REG	21 FEB 2011	10:36	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
GW0007	KAFB1066-WG-GW0007-REG	21 FEB 2011	10:36	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-06 GW0007	KAFB1066-WG-GW0007-REG	21 FEB 2011	10:36	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
GW0007	KAFB1066-WG-GW0007-REG	21 FEB 2011	10:36	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			Y		
-05 GW0007	KAFB1066-WG-GW0007-REG	21 FEB 2011	10:36	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
GW0007	KAFB1066-WG-GW0007-REG	21 FEB 2011	10:36	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
GW0007	KAFB1066-WG-GW0007-REG	21 FEB 2011	10:36	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
-07 GW8018-TB	FIELDQC-BW-GW8018-TB-TB	21 FEB 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

KIRTLAND_005 Summ Package

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 1100 2205 Number of Coolers: 1 of 1

Client: Shaw (P 2-22-11 Project: Kirtland AFB

Date/Time Received: 2.22.11 845 Am Date cooler(s) opened: 2.22.11

Opened By (print): Reginald Talley (signature): Reginald Talley

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 2398

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 2.21.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival? ..... (Yes) No N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler? ..... (Yes) No N/A
5. Were custody papers filled out properly (ink, signed, etc.)? ..... (Yes) No N/A
6. Did you sign custody papers in the appropriate place for acceptance? ..... (Yes) No N/A
7. Was project identifiable from custody papers? ..... (Yes) No N/A
8. If required, was enough ice present in the cooler(s)? ..... (Yes) No N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 1.3 °C Correction Factor: -0.3 °C Final Value: 1.0 °C

Dates samples were logged-in: 2-22-11

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____

10. Were all bottle lids intact and sealed tightly? ..... (Yes) No N/A
11. Did all bottles arrive unbroken? ..... (Yes) No N/A
12. Was all required bottle label information complete? ..... (Yes) No N/A
13. Did all bottle labels agree with custody papers? ..... (Yes) No N/A
14. Were correct containers used for the analyses indicated? ..... (Yes) No N/A
15. Were preservative levels correct in all applicable sample containers? ..... (Yes) No N/A
16. Was residual chlorine present in any applicable sample containers? ..... Yes No (N/A)
17. Was sufficient amount of sample sent for the analyses required? ..... (Yes) No N/A
18. Was headspace present in any included VOA vials? ..... Yes (No) N/A

If Non-Conformance issues were present, list by sample ID: _____

- ph >9 for all sulfides
- ph <2 for all TOC & metals samples

WORK ORDER

1102203

Printed: 3/14/2011 3:02:22PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 03/15/2011 16:00 (15 day TAT)

Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 02/22/2011 08:45
Date Logged In 02/22/2011 11:34

Samples Received at: **1°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

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KIRTLAND_005 Summ Package

WORK ORDER

1102203

Printed: 3/14/2011 3:02:22PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102203-01 GW0005 [Water] Sampled 02/21/2011 16:14 US Mountain					
E300.0	03/10/2011 14:00	15	02/23/2011 17:14		NO3
E300.0	03/10/2011 14:00	15	03/21/2011 18:14		Cl, SO4
SM4500NH3BG	03/10/2011 14:00	15	03/21/2011 18:14		
SM2320B	03/10/2011 14:00	15	03/07/2011 18:14		carb/bicarb
SW8260B	03/10/2011 14:00	15	03/07/2011 18:14		
SW8015B GRO	03/10/2011 14:00	15	03/07/2011 18:14		
SW8011	03/10/2011 14:00	15	03/07/2011 18:14		
SW8015B DRO	03/10/2011 14:00	15	02/28/2011 17:14		
SW6010B	03/10/2011 14:00	15	08/20/2011 18:14		Ca, Pb, K, Na, Mg
SM4500S2CF	03/10/2011 14:00	15	02/28/2011 17:14		
1102203-02 GW0005 [Water] Sampled 02/21/2011 16:14 US Mountain					**Field Filtered and Preserved**
SW6010B	03/10/2011 14:00	15	08/20/2011 18:14		Fe & Mn,Field Filtered and Preserved
1102203-03 GW0006 [Water] Sampled 02/21/2011 16:14 US Mountain					
SW6010B	03/10/2011 14:00	15	08/20/2011 18:14		Ca, Pb, K, Na, Mg
SM4500S2CF	03/10/2011 14:00	15	02/28/2011 17:14		
E300.0	03/10/2011 14:00	15	03/21/2011 18:14		Cl, SO4
SM4500NH3BG	03/10/2011 14:00	15	03/21/2011 18:14		
SM2320B	03/10/2011 14:00	15	03/07/2011 18:14		carb/bicarb
SW8260B	03/10/2011 14:00	15	03/07/2011 18:14		
SW8015B GRO	03/10/2011 14:00	15	03/07/2011 18:14		
E300.0	03/10/2011 14:00	15	02/23/2011 17:14		NO3
SW8015B DRO	03/10/2011 14:00	15	02/28/2011 17:14		
SW8011	03/10/2011 14:00	15	03/07/2011 18:14		

WORK ORDER

1102203

Printed: 3/14/2011 3:02:22PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Kim Kostzer
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1102203-04 GW0006 [Water] Sampled 02/21/2011 16:14 US Mountain					**Field Filtered and Preserved**
SW6010B	03/10/2011 14:00	15	08/20/2011 18:14		Fe & Mn,Field Filtered and Preserved
1102203-05 GW0007 [Water] Sampled 02/21/2011 10:36 US Mountain					
SW8015B GRO	03/10/2011 14:00	15	03/07/2011 12:36		
SW6010B	03/10/2011 14:00	15	08/20/2011 12:36		Ca, Pb, K, Na, Mg
SW8011	03/10/2011 14:00	15	03/07/2011 12:36		
SW8260B	03/10/2011 14:00	15	03/07/2011 12:36		
SM2320B	03/10/2011 14:00	15	03/07/2011 12:36		carb/bicarb
SM4500NH3BG	03/10/2011 14:00	15	03/21/2011 12:36		
E300.0	03/10/2011 14:00	15	03/21/2011 12:36		Cl, SO4
E300.0	03/10/2011 14:00	15	02/23/2011 11:36		NO3
SM4500S2CF	03/10/2011 14:00	15	02/28/2011 11:36		
SW8015B DRO	03/10/2011 14:00	15	02/28/2011 11:36		
1102203-06 GW0007 [Water] Sampled 02/21/2011 10:36 US Mountain					**Field Filtered and Preserved**
SW6010B	03/10/2011 14:00	15	08/20/2011 12:36		Fe & Mn,Field Filtered and Preserved
1102203-07 GW8018-TB [Water] Sampled 02/21/2011 08:00 Mountain					
SW8260B	03/10/2011 14:00	15	03/07/2011 09:00		

Sample Delivery Group Assignment Form

CLIENT: Shaw E & I (I700)
PROJECT NAME: Kirtland AFB 2011
SDG #: kirtland_005
MATRIX: Water

QC LEVEL: Level IV
Report Due: 3/15/2011
Client Sample Count: 6

Sample Type	Sampled	Received	Lab ID	Client ID	E300.0	SM2320B	SM4500NH3BG	SM4500S2CF	SW6010B	SW8011	SW8015B	SW8260B
Client Sample	2/21/2011	2/22/2011	1102203-01	GW0005	X	X	X	X	X	X	X	X
Client Sample	2/21/2011	2/22/2011	1102203-02	GW0005					X			
Client Sample	2/21/2011	2/22/2011	1102203-03	GW0006	X	X	X	X	X	X	X	X
Client Sample	2/21/2011	2/22/2011	1102203-04	GW0006					X			
Client Sample	2/21/2011	2/22/2011	1102203-05	GW0007	X	X	X	X	X	X	X	X
Client Sample	2/21/2011	2/22/2011	1102203-06	GW0007					X			
Trip Blank	2/21/2011	2/22/2011	1102203-07	GW8018-TB								X

Data for SW8260B Forms

ANALYSIS DATA SHEET

GW0005

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102203-01 File ID: 0220301D.D

Sampled: 02/21/11 16:14 Prepared: 02/24/11 00:00 Analyzed: 02/25/11 01:00

Solids: Preparation: 5030B Dilution: 100

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	992	250	500	1000	X, J, D
71-43-2	Benzene	2010	25.0	50.0	100	D
108-86-1	Bromobenzene		25.0	50.0	100	U
74-97-5	Bromochloromethane		25.0	50.0	100	U
75-27-4	Bromodichloromethane		25.0	50.0	100	U
75-25-2	Bromoform		25.0	50.0	100	Q, U
74-83-9	Bromomethane		50.0	100	200	U
104-51-8	n-Butylbenzene	37.2	25.0	50.0	100	J, D
78-93-3	2-Butanone	434	250	500	1000	X, J, D
135-98-8	sec-Butylbenzene	33.8	25.0	50.0	100	J, D
98-06-6	tert-Butylbenzene	25.5	25.0	50.0	100	J, D
75-15-0	Carbon disulfide		25.0	50.0	100	U
56-23-5	Carbon tetrachloride		25.0	50.0	100	X, U
108-90-7	Chlorobenzene		25.0	50.0	100	U
75-00-3	Chloroethane		50.0	100	200	Q, U
67-66-3	Chloroform		25.0	50.0	100	U
74-87-3	Chloromethane		25.0	50.0	100	Q, U
95-49-8	2-Chlorotoluene		25.0	50.0	100	U
106-43-4	4-Chlorotoluene		25.0	50.0	100	U
124-48-1	Dibromochloromethane		25.0	50.0	100	U
96-12-8	1,2-Dibromo-3-chloropropane		50.0	100	200	U
106-93-4	1,2-Dibromoethane (EDB)	124	25.0	50.0	100	D
74-95-3	Dibromomethane		25.0	50.0	100	U
95-50-1	1,2-Dichlorobenzene		25.0	50.0	100	U
541-73-1	1,3-Dichlorobenzene		25.0	50.0	100	U
106-46-7	1,4-Dichlorobenzene		25.0	50.0	100	U
75-71-8	Dichlorodifluoromethane		50.0	100	200	Q, U
75-34-3	1,1-Dichloroethane		25.0	50.0	100	U
107-06-2	1,2-Dichloroethane		25.0	50.0	100	U
75-35-4	1,1-Dichloroethene		25.0	50.0	100	U
156-59-2	cis-1,2-Dichloroethene		25.0	50.0	100	U
156-60-5	trans-1,2-Dichloroethene		25.0	50.0	100	U
78-87-5	1,2-Dichloropropane		25.0	50.0	100	U
142-28-9	1,3-Dichloropropane		25.0	50.0	100	U
594-20-7	2,2-Dichloropropane		25.0	50.0	100	U
563-58-6	1,1-Dichloropropene		25.0	50.0	100	U
10061-01-5	cis-1,3-Dichloropropene		25.0	50.0	100	U
10061-02-6	trans-1,3-Dichloropropene		25.0	50.0	100	U
100-41-4	Ethylbenzene	427	25.0	50.0	100	D
87-68-3	Hexachlorobutadiene		25.0	50.0	100	X, U

ANALYSIS DATA SHEET

GW0005

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102203-01 File ID: 0220301D.D

Sampled: 02/21/11 16:14 Prepared: 02/24/11 00:00 Analyzed: 02/25/11 01:00

Solids: Preparation: 5030B Dilution: 100

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		125	250	500	X, U
98-82-8	Isopropylbenzene	60.6	25.0	50.0	100	J, D
99-87-6	p-Isopropyltoluene		25.0	50.0	100	U
75-09-2	Methylene chloride	54.5	50.0	100	200	J, D
91-20-3	Naphthalene	145	25.0	50.0	100	D
108-10-1	4-Methyl-2-pentanone		125	250	500	X, U
1634-04-4	Methyl t-Butyl Ether		25.0	50.0	100	U
103-65-1	n-Propylbenzene	64.4	25.0	50.0	100	J, D
100-42-5	Styrene		25.0	50.0	100	U
79-34-5	1,1,2,2-Tetrachloroethane		25.0	50.0	100	U
630-20-6	1,1,1,2-Tetrachloroethane		25.0	50.0	100	U
127-18-4	Tetrachloroethene		25.0	50.0	100	U
108-88-3	Toluene	4920	25.0	50.0	100	D
87-61-6	1,2,3-Trichlorobenzene		25.0	50.0	100	U
120-82-1	1,2,4-Trichlorobenzene		25.0	50.0	100	U
79-00-5	1,1,2-Trichloroethane		25.0	50.0	100	U
71-55-6	1,1,1-Trichloroethane		25.0	50.0	100	X, U
79-01-6	Trichloroethene		25.0	50.0	100	U
75-69-4	Trichlorofluoromethane		50.0	100	200	X, U
96-18-4	1,2,3-Trichloropropane		50.0	100	200	U
108-67-8	1,3,5-Trimethylbenzene	140	25.0	50.0	100	D
95-63-6	1,2,4-Trimethylbenzene	339	25.0	50.0	100	D
75-01-4	Vinyl chloride		25.0	50.0	100	Q, U
108-38-3/106-42-	m,p-Xylene	1620	50.0	100	200	D
95-47-6	o-Xylene	654	25.0	50.0	100	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.23	107	75 - 120	
Dibromofluoromethane	30.00	33.30	111	85 - 115	
1,2-Dichloroethane-d4	30.00	29.74	99.1	70 - 120	
Toluene-d8	30.00	29.43	98.1	85 - 120	

ANALYSIS DATA SHEET

GW0006

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102203-03 File ID: 0220303D.D

Sampled: 02/21/11 16:14 Prepared: 02/24/11 00:00 Analyzed: 02/25/11 01:30

Solids: Preparation: 5030B Dilution: 100

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	1010	250	500	1000	X, D
71-43-2	Benzene	2000	25.0	50.0	100	D
108-86-1	Bromobenzene		25.0	50.0	100	U
74-97-5	Bromochloromethane		25.0	50.0	100	U
75-27-4	Bromodichloromethane		25.0	50.0	100	U
75-25-2	Bromoform		25.0	50.0	100	Q, U
74-83-9	Bromomethane		50.0	100	200	U
104-51-8	n-Butylbenzene	39.9	25.0	50.0	100	J, D
78-93-3	2-Butanone	381	250	500	1000	X, J, D
135-98-8	sec-Butylbenzene		25.0	50.0	100	U
98-06-6	tert-Butylbenzene		25.0	50.0	100	U
75-15-0	Carbon disulfide		25.0	50.0	100	U
56-23-5	Carbon tetrachloride		25.0	50.0	100	X, U
108-90-7	Chlorobenzene		25.0	50.0	100	U
75-00-3	Chloroethane		50.0	100	200	Q, U
67-66-3	Chloroform		25.0	50.0	100	U
74-87-3	Chloromethane		25.0	50.0	100	Q, U
95-49-8	2-Chlorotoluene		25.0	50.0	100	U
106-43-4	4-Chlorotoluene		25.0	50.0	100	U
124-48-1	Dibromochloromethane		25.0	50.0	100	U
96-12-8	1,2-Dibromo-3-chloropropane		50.0	100	200	U
106-93-4	1,2-Dibromoethane (EDB)	142	25.0	50.0	100	D
74-95-3	Dibromomethane		25.0	50.0	100	U
95-50-1	1,2-Dichlorobenzene		25.0	50.0	100	U
541-73-1	1,3-Dichlorobenzene		25.0	50.0	100	U
106-46-7	1,4-Dichlorobenzene		25.0	50.0	100	U
75-71-8	Dichlorodifluoromethane		50.0	100	200	Q, U
75-34-3	1,1-Dichloroethane		25.0	50.0	100	U
107-06-2	1,2-Dichloroethane		25.0	50.0	100	U
75-35-4	1,1-Dichloroethene		25.0	50.0	100	U
156-59-2	cis-1,2-Dichloroethene		25.0	50.0	100	U
156-60-5	trans-1,2-Dichloroethene		25.0	50.0	100	U
78-87-5	1,2-Dichloropropane		25.0	50.0	100	U
142-28-9	1,3-Dichloropropane		25.0	50.0	100	U
594-20-7	2,2-Dichloropropane		25.0	50.0	100	U
563-58-6	1,1-Dichloropropene		25.0	50.0	100	U
10061-01-5	cis-1,3-Dichloropropene		25.0	50.0	100	U
10061-02-6	trans-1,3-Dichloropropene		25.0	50.0	100	U
100-41-4	Ethylbenzene	420	25.0	50.0	100	D
87-68-3	Hexachlorobutadiene		25.0	50.0	100	X, U

ANALYSIS DATA SHEET

GW0006

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102203-03 File ID: 0220303D.D

Sampled: 02/21/11 16:14 Prepared: 02/24/11 00:00 Analyzed: 02/25/11 01:30

Solids: Preparation: 5030B Dilution: 100

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		125	250	500	X, U
98-82-8	Isopropylbenzene	62.2	25.0	50.0	100	J, D
99-87-6	p-Isopropyltoluene		25.0	50.0	100	U
75-09-2	Methylene chloride	80.1	50.0	100	200	J, D
91-20-3	Naphthalene	142	25.0	50.0	100	D
108-10-1	4-Methyl-2-pentanone		125	250	500	X, U
1634-04-4	Methyl t-Butyl Ether		25.0	50.0	100	U
103-65-1	n-Propylbenzene	60.8	25.0	50.0	100	J, D
100-42-5	Styrene		25.0	50.0	100	U
79-34-5	1,1,2,2-Tetrachloroethane		25.0	50.0	100	U
630-20-6	1,1,1,2-Tetrachloroethane		25.0	50.0	100	U
127-18-4	Tetrachloroethene		25.0	50.0	100	U
108-88-3	Toluene	4890	25.0	50.0	100	D
87-61-6	1,2,3-Trichlorobenzene		25.0	50.0	100	U
120-82-1	1,2,4-Trichlorobenzene		25.0	50.0	100	U
79-00-5	1,1,2-Trichloroethane		25.0	50.0	100	U
71-55-6	1,1,1-Trichloroethane		25.0	50.0	100	X, U
79-01-6	Trichloroethene		25.0	50.0	100	U
75-69-4	Trichlorofluoromethane		50.0	100	200	X, U
96-18-4	1,2,3-Trichloropropane		50.0	100	200	U
108-67-8	1,3,5-Trimethylbenzene	135	25.0	50.0	100	D
95-63-6	1,2,4-Trimethylbenzene	301	25.0	50.0	100	D
75-01-4	Vinyl chloride		25.0	50.0	100	Q, U
108-38-3/106-42-	m,p-Xylene	1550	50.0	100	200	D
95-47-6	o-Xylene	636	25.0	50.0	100	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.13	107	75 - 120	
Dibromofluoromethane	30.00	32.01	107	85 - 115	
1,2-Dichloroethane-d4	30.00	30.53	102	70 - 120	
Toluene-d8	30.00	30.89	103	85 - 120	

ANALYSIS DATA SHEET

GW0007

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102203-05 File ID: 0220305D.D

Sampled: 02/21/11 10:36 Prepared: 02/24/11 00:00 Analyzed: 02/25/11 02:00

Solids: Preparation: 5030B Dilution: 50

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	478	125	250	500	X, J, D
71-43-2	Benzene	1080	12.5	25.0	50.0	D
108-86-1	Bromobenzene		12.5	25.0	50.0	U
74-97-5	Bromochloromethane		12.5	25.0	50.0	U
75-27-4	Bromodichloromethane		12.5	25.0	50.0	U
75-25-2	Bromoform		12.5	25.0	50.0	Q, U
74-83-9	Bromomethane		25.0	50.0	100	U
104-51-8	n-Butylbenzene	16.9	12.5	25.0	50.0	J, D
78-93-3	2-Butanone		125	250	500	X, U
135-98-8	sec-Butylbenzene	20.6	12.5	25.0	50.0	J, D
98-06-6	tert-Butylbenzene		12.5	25.0	50.0	U
75-15-0	Carbon disulfide		12.5	25.0	50.0	U
56-23-5	Carbon tetrachloride		12.5	25.0	50.0	X, U
108-90-7	Chlorobenzene		12.5	25.0	50.0	U
75-00-3	Chloroethane		25.0	50.0	100	Q, U
67-66-3	Chloroform		12.5	25.0	50.0	U
74-87-3	Chloromethane		12.5	25.0	50.0	Q, U
95-49-8	2-Chlorotoluene		12.5	25.0	50.0	U
106-43-4	4-Chlorotoluene		12.5	25.0	50.0	U
124-48-1	Dibromochloromethane		12.5	25.0	50.0	U
96-12-8	1,2-Dibromo-3-chloropropane		25.0	50.0	100	U
106-93-4	1,2-Dibromoethane (EDB)	51.8	12.5	25.0	50.0	D
74-95-3	Dibromomethane		12.5	25.0	50.0	U
95-50-1	1,2-Dichlorobenzene		12.5	25.0	50.0	U
541-73-1	1,3-Dichlorobenzene		12.5	25.0	50.0	U
106-46-7	1,4-Dichlorobenzene		12.5	25.0	50.0	U
75-71-8	Dichlorodifluoromethane		25.0	50.0	100	Q, U
75-34-3	1,1-Dichloroethane		12.5	25.0	50.0	U
107-06-2	1,2-Dichloroethane		12.5	25.0	50.0	U
75-35-4	1,1-Dichloroethene		12.5	25.0	50.0	U
156-59-2	cis-1,2-Dichloroethene		12.5	25.0	50.0	U
156-60-5	trans-1,2-Dichloroethene		12.5	25.0	50.0	U
78-87-5	1,2-Dichloropropane		12.5	25.0	50.0	U
142-28-9	1,3-Dichloropropane		12.5	25.0	50.0	U
594-20-7	2,2-Dichloropropane		12.5	25.0	50.0	U
563-58-6	1,1-Dichloropropene		12.5	25.0	50.0	U
10061-01-5	cis-1,3-Dichloropropene		12.5	25.0	50.0	U
10061-02-6	trans-1,3-Dichloropropene		12.5	25.0	50.0	U
100-41-4	Ethylbenzene	754	12.5	25.0	50.0	D
87-68-3	Hexachlorobutadiene		12.5	25.0	50.0	X, U

ANALYSIS DATA SHEET

GW0007

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102203-05 File ID: 0220305D.D

Sampled: 02/21/11 10:36 Prepared: 02/24/11 00:00 Analyzed: 02/25/11 02:00

Solids: Preparation: 5030B Dilution: 50

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		62.5	125	250	X, U
98-82-8	Isopropylbenzene	89.6	12.5	25.0	50.0	D
99-87-6	p-Isopropyltoluene		12.5	25.0	50.0	U
75-09-2	Methylene chloride	32.4	25.0	50.0	100	J, D
91-20-3	Naphthalene	113	12.5	25.0	50.0	D
108-10-1	4-Methyl-2-pentanone		62.5	125	250	X, U
1634-04-4	Methyl t-Butyl Ether		12.5	25.0	50.0	U
103-65-1	n-Propylbenzene	121	12.5	25.0	50.0	D
100-42-5	Styrene	22.6	12.5	25.0	50.0	J, D
79-34-5	1,1,2,2-Tetrachloroethane		12.5	25.0	50.0	U
630-20-6	1,1,1,2-Tetrachloroethane		12.5	25.0	50.0	U
127-18-4	Tetrachloroethene		12.5	25.0	50.0	U
108-88-3	Toluene	5130	12.5	25.0	50.0	D
87-61-6	1,2,3-Trichlorobenzene		12.5	25.0	50.0	U
120-82-1	1,2,4-Trichlorobenzene		12.5	25.0	50.0	U
79-00-5	1,1,2-Trichloroethane		12.5	25.0	50.0	U
71-55-6	1,1,1-Trichloroethane		12.5	25.0	50.0	X, U
79-01-6	Trichloroethene		12.5	25.0	50.0	U
75-69-4	Trichlorofluoromethane		25.0	50.0	100	X, U
96-18-4	1,2,3-Trichloropropane		25.0	50.0	100	U
108-67-8	1,3,5-Trimethylbenzene	107	12.5	25.0	50.0	D
95-63-6	1,2,4-Trimethylbenzene	260	12.5	25.0	50.0	D
75-01-4	Vinyl chloride		12.5	25.0	50.0	Q, U
108-38-3/106-42-	m,p-Xylene	2340	25.0	50.0	100	D
95-47-6	o-Xylene	772	12.5	25.0	50.0	D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.62	102	75 - 120	
Dibromofluoromethane	30.00	32.37	108	85 - 115	
1,2-Dichloroethane-d4	30.00	27.88	92.9	70 - 120	
Toluene-d8	30.00	29.89	99.6	85 - 120	

ANALYSIS DATA SHEET

GW8018-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102203-07 File ID: 0220307.D

Sampled: 02/21/11 08:00 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 21:58

Solids: Preparation: 5030B Dilution: 1

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	Q, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	Q, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Q, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Q, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.352	0.250	0.500	1.00	X, J, B

ANALYSIS DATA SHEET

GW8018-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1102203-07 File ID: 0220307.D

Sampled: 02/21/11 08:00 Prepared: 02/24/11 00:00 Analyzed: 02/24/11 21:58

Solids: Preparation: 5030B Dilution: 1

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	Q, U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.44	105	75 - 120	
Dibromofluoromethane	30.00	34.40	115	85 - 115	
1,2-Dichloroethane-d4	30.00	30.72	102	70 - 120	
Toluene-d8	30.00	30.12	100	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05612
Instrument: MS-VOA5
Calibration: 0349002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05612-CCV1) ug/L				Lab File ID: 0224CC1E.D		Analyzed: 02/24/11 19:30		
Bromofluorobenzene	30.00	93.4	80 - 120	17.677	17.677	0.0000	+/-1.000	
Dibromofluoromethane	30.00	110	80 - 120	11.242	11.242	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	95.9	80 - 120	12.04	12.04	0.0000	+/-1.000	
Toluene-d8	30.00	89.8	80 - 120	15.361	15.361	0.0000	+/-1.000	
LCS (1B24021-BS1) ug/L				Lab File ID: 0224LS1E.D		Analyzed: 02/24/11 20:00		
Bromofluorobenzene	30.00	97.6	75 - 120	17.672	17.677	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	11.248	11.242	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	101	70 - 120	12.036	12.04	-0.0040	+/-1.000	
Toluene-d8	30.00	96.3	85 - 120	15.357	15.361	-0.0040	+/-1.000	
Blank (1B24021-BLK1) ug/L				Lab File ID: 0224BL1E.D		Analyzed: 02/24/11 21:28		
Bromofluorobenzene	30.00	101	75 - 120	17.677	17.677	0.0000	+/-1.000	
Dibromofluoromethane	30.00	109	85 - 115	11.252	11.242	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	98.5	70 - 120	12.05	12.04	0.0100	+/-1.000	
Toluene-d8	30.00	99.7	85 - 120	15.361	15.361	0.0000	+/-1.000	
GW8018-TB (1102203-07) ug/L				Lab File ID: 0220307.D		Analyzed: 02/24/11 21:58		
Bromofluorobenzene	30.00	105	75 - 120	17.677	17.677	0.0000	+/-1.000	
Dibromofluoromethane	30.00	115	85 - 115	11.252	11.242	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	12.041	12.04	0.0010	+/-1.000	
Toluene-d8	30.00	100	85 - 120	15.351	15.361	-0.0100	+/-1.000	
GW0005 (1102203-01) ug/L				Lab File ID: 0220301D.D		Analyzed: 02/25/11 01:00		
Bromofluorobenzene	30.00	107	75 - 120	17.676	17.677	-0.0010	+/-1.000	
Dibromofluoromethane	30.00	111	85 - 115	11.252	11.242	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.1	70 - 120	12.04	12.04	0.0000	+/-1.000	
Toluene-d8	30.00	98.1	85 - 120	15.351	15.361	-0.0100	+/-1.000	
GW0006 (1102203-03) ug/L				Lab File ID: 0220303D.D		Analyzed: 02/25/11 01:30		
Bromofluorobenzene	30.00	107	75 - 120	17.672	17.677	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	11.248	11.242	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	12.046	12.04	0.0060	+/-1.000	
Toluene-d8	30.00	103	85 - 120	15.357	15.361	-0.0040	+/-1.000	
GW0007 (1102203-05) ug/L				Lab File ID: 0220305D.D		Analyzed: 02/25/11 02:00		
Bromofluorobenzene	30.00	102	75 - 120	17.675	17.677	-0.0020	+/-1.000	
Dibromofluoromethane	30.00	108	85 - 115	11.241	11.242	-0.0010	+/-1.000	
1,2-Dichloroethane-d4	30.00	92.9	70 - 120	12.039	12.04	-0.0010	+/-1.000	
Toluene-d8	30.00	99.6	85 - 120	15.35	15.361	-0.0110	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05612
Instrument: MS-VOA5
Calibration: 0349002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
LCS Dup (1B24021-BSD1) ug/L				Lab File ID: 0224LD1E.D		Analyzed: 02/25/11 02:30		
Bromofluorobenzene	30.00	103	75 - 120	17.667	17.677	-0.0100	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	11.242	11.242	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	94.9	70 - 120	12.04	12.04	0.0000	+/-1.000	
Toluene-d8	30.00	98.1	85 - 120	15.351	15.361	-0.0100	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B24021
Laboratory ID: 1B24021-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	121	121	40 - 140
Benzene	50.00	47.3	94.7	80 - 120
Bromobenzene	50.00	54.0	108	75 - 125
Bromochloromethane	50.00	51.3	103	65 - 130
Bromodichloromethane	50.00	58.1	116	75 - 120
Bromoform	**50.00**	**66.5**	**133**	**70 - 130**
Bromomethane	50.00	24.3	48.6	30 - 145
n-Butylbenzene	50.00	51.0	102	70 - 135
2-Butanone	100.0	103	103	30 - 150
sec-Butylbenzene	50.00	52.5	105	70 - 125
tert-Butylbenzene	50.00	54.3	109	70 - 130
Carbon disulfide	50.00	28.6	57.2	35 - 160
Carbon tetrachloride	50.00	53.8	108	65 - 140
Chlorobenzene	50.00	50.5	101	80 - 120
Chloroethane	**50.00**	**28.2**	**56.4**	**60 - 135**
Chloroform	50.00	51.3	103	65 - 135
Chloromethane	**50.00**	**10.5**	**21.0**	**40 - 125**
2-Chlorotoluene	50.00	50.3	101	75 - 125
4-Chlorotoluene	50.00	49.3	98.6	75 - 130
Dibromochloromethane	50.00	59.4	119	60 - 135
1,2-Dibromo-3-chloropropane	50.00	56.9	114	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.8	108	80 - 120
Dibromomethane	50.00	52.6	105	75 - 125
1,2-Dichlorobenzene	50.00	52.7	105	70 - 120
1,3-Dichlorobenzene	50.00	49.8	99.6	75 - 125
1,4-Dichlorobenzene	50.00	52.8	106	75 - 125
Dichlorodifluoromethane	**50.00**	**2.55**	**5.11**	**30 - 155**
1,1-Dichloroethane	50.00	48.5	96.9	70 - 135
1,2-Dichloroethane	50.00	54.5	109	70 - 130
1,1-Dichloroethene	50.00	42.1	84.2	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B24021
Laboratory ID: 1B24021-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	48.9	97.7	70 - 125
trans-1,2-Dichloroethene	50.00	46.1	92.3	60 - 140
1,2-Dichloropropane	50.00	49.2	98.5	75 - 125
1,3-Dichloropropane	50.00	50.5	101	75 - 125
2,2-Dichloropropane	50.00	47.9	95.7	70 - 135
1,1-Dichloropropene	50.00	51.6	103	75 - 130
cis-1,3-Dichloropropene	50.00	51.2	102	70 - 130
trans-1,3-Dichloropropene	50.00	60.4	121	55 - 140
Ethylbenzene	50.00	53.7	107	75 - 125
Hexachlorobutadiene	50.00	62.7	125	50 - 140
2-Hexanone	100.0	109	109	55 - 130
Isopropylbenzene	50.00	59.9	120	75 - 125
p-Isopropyltoluene	50.00	54.1	108	75 - 130
Methylene chloride	50.00	45.8	91.7	55 - 140
Naphthalene	50.00	53.2	106	55 - 140
4-Methyl-2-pentanone	100.0	111	111	60 - 135
Methyl t-Butyl Ether	100.0	97.6	97.6	65 - 125
n-Propylbenzene	50.00	49.0	98.1	70 - 130
Styrene	50.00	55.8	112	65 - 135
1,1,2,2-Tetrachloroethane	50.00	49.8	99.7	65 - 130
1,1,1,2-Tetrachloroethane	50.00	56.7	113	80 - 130
Tetrachloroethene	50.00	53.6	107	45 - 150
Toluene	50.00	48.9	97.8	75 - 120
1,2,3-Trichlorobenzene	50.00	52.1	104	55 - 140
1,2,4-Trichlorobenzene	50.00	53.0	106	65 - 135
1,1,2-Trichloroethane	50.00	50.4	101	75 - 125
1,1,1-Trichloroethane	50.00	53.0	106	65 - 130
Trichloroethene	50.00	51.8	104	70 - 125
Trichlorofluoromethane	50.00	31.8	63.6	60 - 145
1,2,3-Trichloropropane	50.00	54.9	110	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B24021
Laboratory ID: 1B24021-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	52.7	105	75 - 130
1,2,4-Trimethylbenzene	50.00	53.5	107	75 - 130
Vinyl chloride	**50.00**	**15.6**	**31.3**	**50 - 145**
m,p-Xylene	100.0	104	104	75 - 130
o-Xylene	50.00	53.1	106	80 - 120

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Acetone	100.0	115	115	5.36	30	40 - 140
Benzene	50.00	45.3	90.7	4.29	30	80 - 120
Bromobenzene	50.00	55.2	110	2.13	30	75 - 125
Bromochloromethane	50.00	51.1	102	0.224	30	65 - 130
Bromodichloromethane	50.00	56.4	113	3.00	30	75 - 120
Bromoform	**50.00**	**65.9**	**132 ***	**0.992**	**30**	**70 - 130**
Bromomethane	50.00	20.2	40.4	18.3	30	30 - 145
n-Butylbenzene	50.00	51.4	103	0.738	30	70 - 135
2-Butanone	100.0	100	100	2.81	30	30 - 150
sec-Butylbenzene	50.00	53.3	107	1.51	30	70 - 125
tert-Butylbenzene	50.00	53.4	107	1.73	30	70 - 130
Carbon disulfide	50.00	26.7	53.4	6.96	30	35 - 160
Carbon tetrachloride	50.00	51.2	102	5.01	30	65 - 140
Chlorobenzene	50.00	48.5	97.1	3.88	30	80 - 120
Chloroethane	**50.00**	**24.1**	**48.2 ***	**15.7**	**30**	**60 - 135**
Chloroform	50.00	49.6	99.1	3.40	30	65 - 135
Chloromethane	**50.00**	**9.52**	**19.0 ***	**9.95**	**30**	**40 - 125**
2-Chlorotoluene	50.00	49.9	99.9	0.646	30	75 - 125
4-Chlorotoluene	50.00	45.0	90.1	9.08	30	75 - 130
Dibromochloromethane	50.00	58.7	117	1.19	30	60 - 135
1,2-Dibromo-3-chloropropane	50.00	55.3	111	2.97	30	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.9	108	0.278	30	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B24021
Laboratory ID: 1B24021-BSD1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibromomethane	50.00	50.8	102		3.50	30	75 - 125
1,2-Dichlorobenzene	50.00	53.9	108		2.38	30	70 - 120
1,3-Dichlorobenzene	50.00	55.0	110		9.91	30	75 - 125
1,4-Dichlorobenzene	50.00	48.0	96.1		9.53	30	75 - 125
Dichlorodifluoromethane	**50.00**	**2.20**	**4.41**	*	**14.7**	**30**	**30 - 155**
1,1-Dichloroethane	50.00	46.5	93.0		4.12	30	70 - 135
1,2-Dichloroethane	50.00	54.7	109		0.354	30	70 - 130
1,1-Dichloroethene	50.00	38.5	76.9		9.03	30	70 - 130
cis-1,2-Dichloroethene	50.00	47.9	95.8		1.93	30	70 - 125
trans-1,2-Dichloroethene	50.00	43.2	86.4		6.56	30	60 - 140
1,2-Dichloropropane	50.00	46.9	93.8		4.92	30	75 - 125
1,3-Dichloropropane	50.00	49.2	98.5		2.57	30	75 - 125
2,2-Dichloropropane	50.00	39.5	78.9		19.3	30	70 - 135
1,1-Dichloropropene	50.00	49.4	98.8		4.37	30	75 - 130
cis-1,3-Dichloropropene	50.00	49.5	98.9		3.43	30	70 - 130
trans-1,3-Dichloropropene	50.00	58.2	116		3.69	30	55 - 140
Ethylbenzene	50.00	51.8	104		3.64	30	75 - 125
Hexachlorobutadiene	50.00	58.2	116		7.37	30	50 - 140
2-Hexanone	100.0	103	103		5.15	30	55 - 130
Isopropylbenzene	50.00	59.3	119		0.943	30	75 - 125
p-Isopropyltoluene	50.00	54.6	109		1.05	30	75 - 130
Methylene chloride	50.00	43.5	87.1		5.16	30	55 - 140
Naphthalene	50.00	51.4	103		3.41	30	55 - 140
4-Methyl-2-pentanone	100.0	107	107		2.88	30	60 - 135
Methyl t-Butyl Ether	100.0	96.5	96.5		1.07	30	65 - 125
n-Propylbenzene	50.00	51.5	103		4.84	30	70 - 130
Styrene	50.00	54.6	109		2.23	30	65 - 135
1,1,2,2-Tetrachloroethane	50.00	50.4	101		1.16	30	65 - 130
1,1,1,2-Tetrachloroethane	50.00	55.9	112		1.46	30	80 - 130
Tetrachloroethene	50.00	51.7	103		3.57	30	45 - 150

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1B24021
Laboratory ID: 1B24021-BSD1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #		% RPD #	QC LIMITS RPD	QC LIMITS REC.
Toluene	50.00	48.5	96.9		0.929	30	75 - 120
1,2,3-Trichlorobenzene	50.00	51.4	103		1.40	30	55 - 140
1,2,4-Trichlorobenzene	50.00	53.0	106		0.0377	30	65 - 135
1,1,2-Trichloroethane	50.00	50.5	101		0.282	30	75 - 125
1,1,1-Trichloroethane	50.00	50.2	100		5.38	30	65 - 130
Trichloroethene	50.00	49.1	98.2		5.38	30	70 - 125
Trichlorofluoromethane	50.00	30.8	61.7		3.07	30	60 - 145
1,2,3-Trichloropropane	50.00	55.9	112		1.75	30	75 - 125
1,3,5-Trimethylbenzene	50.00	54.0	108		2.45	30	75 - 130
1,2,4-Trimethylbenzene	50.00	55.0	110		2.64	30	75 - 130
Vinyl chloride	**50.00**	**14.3**	**28.6**	*	**8.85**	**30**	**50 - 145**
m,p-Xylene	100.0	103	103		1.34	30	75 - 130
o-Xylene	50.00	52.0	104		2.14	30	80 - 120

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B24021 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0005	1102203-01	02/24/11 00:00	5.00	5.00
GW0006	1102203-03	02/24/11 00:00	5.00	5.00
GW0007	1102203-05	02/24/11 00:00	5.00	5.00
GW8018-TB	1102203-07	02/24/11 00:00	5.00	5.00
Blank	1B24021-BLK1	02/24/11 00:00	5.00	5.00
LCS	1B24021-BS1	02/24/11 00:00	5.00	5.00
LCS Dup	1B24021-BSD1	02/24/11 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1213TU1.D	Injection Date:	12/13/10
Instrument ID:	MS-VOA5	Injection Time:	14:13
Sequence:	0L34902	Lab Sample ID:	0L34902-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	24.4	PASS
75	30 - 60% of 95	54.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.36	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	64.1	PASS
175	5 - 9% of 174	7.1	PASS
176	95 - 101% of 174	96	PASS
177	5 - 9% of 176	7.18	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	1213TU2.D	Injection Date:	12/14/10
Instrument ID:	MS-VOA5	Injection Time:	08:57
Sequence:	0L34902	Lab Sample ID:	0L34902-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	23.1	PASS
75	30 - 60% of 95	51.6	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.89	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	69.4	PASS
175	5 - 9% of 174	7.71	PASS
176	95 - 101% of 174	100	PASS
177	5 - 9% of 176	6.09	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0224TU1E.D	Injection Date:	02/24/11
Instrument ID:	MS-VOA5	Injection Time:	18:59
Sequence:	1B05612	Lab Sample ID:	1B05612-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	32.6	PASS
75	30 - 60% of 95	57.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	5.89	PASS
173	Less than 2% of 174	1.22	PASS
174	50 - 200% of 95	54.7	PASS
175	5 - 9% of 174	8.22	PASS
176	95 - 101% of 174	100	PASS
177	5 - 9% of 176	7.34	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0L34902	Instrument:	MS-VOA5
Calibration:	0349002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	0L34902-TUN1	1213TU1.D	12/13/10 14:13
Cal Standard	0L34902-CAL1	SEQ-CAL1.D	12/13/10 14:43
Cal Standard	0L34902-CAL2	SEQ-CAL2.D	12/13/10 15:13
Cal Standard	0L34902-CAL3	SEQ-CAL3.D	12/13/10 15:43
Cal Standard	0L34902-CAL4	SEQ-CAL4.D	12/13/10 16:14
Cal Standard	0L34902-CAL5	SEQ-CAL5.D	12/13/10 16:44
Cal Standard	0L34902-CAL6	SEQ-CAL6.D	12/13/10 17:14
Cal Standard	0L34902-CAL7	SEQ-CAL7.D	12/13/10 17:44
Cal Standard	0L34902-CAL8	SEQ-CAL8.D	12/13/10 18:14
Cal Standard	0L34902-CAL9	SEQ-CAL9.D	12/13/10 18:44
Initial Cal Check	0L34902-ICV1	SEQ-ICV1.D	12/13/10 19:14
Cal Standard	0L34902-CALA	SEQ-CALA.D	12/13/10 20:14
Cal Standard	0L34902-CALB	SEQ-CALB.D	12/13/10 20:44
Cal Standard	0L34902-CALC	SEQ-CALC.D	12/13/10 21:15
Cal Standard	0L34902-CALD	SEQ-CALD.D	12/13/10 21:45
Cal Standard	0L34902-CALE	SEQ-CALE.D	12/13/10 22:15
Cal Standard	0L34902-CALF	SEQ-CALF.D	12/13/10 22:45
Cal Standard	0L34902-CALG	SEQ-CALG.D	12/13/10 23:15
MS Tune	0L34902-TUN2	1213TU2.D	12/14/10 08:57
Cal Standard	0L34902-CALH	SEQ-CALH.D	12/14/10 09:27
Cal Standard	0L34902-CALI	SEQ-CALI.D	12/14/10 09:57
Initial Cal Check	0L34902-ICV2	SEQ-ICV3.D	12/14/10 10:27

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05612	Instrument:	MS-VOA5
Calibration:	0349002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B05612-TUN1	0224TU1E.D	02/24/11 18:59
Calibration Check	1B05612-CCV1	0224CC1E.D	02/24/11 19:30
LCS	1B24021-BS1	0224LS1E.D	02/24/11 20:00
Blank	1B24021-BLK1	0224BL1E.D	02/24/11 21:28
GW8018-TB	1102203-07	0220307.D	02/24/11 21:58
GW0005	1102203-01	0220301D.D	02/25/11 01:00
GW0006	1102203-03	0220303D.D	02/25/11 01:30
GW0007	1102203-05	0220305D.D	02/25/11 02:00
LCS Dup	1B24021-BSD1	0224LD1E.D	02/25/11 02:30

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05612
Instrument: MS-VOA5
Calibration: 0349002

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1B05612-CCV1)			Lab File ID: 0224CC1E.D			Analyzed: 02/24/11 19:30			
Fluorobenzene	1358181	13.223	1337630	13.37	102	50 - 200	-0.1470	+/-0.50	
Chlorobenzene-d5	804871	16.701	758667	16.829	106	50 - 200	-0.1280	+/-0.50	
1,4-Dichlorobenzene-d4	670128	18.731	549803	18.878	122	50 - 200	-0.1470	+/-0.50	
LCS (1B24021-BS1)			Lab File ID: 0224LS1E.D			Analyzed: 02/24/11 20:00			
Fluorobenzene	1468260	13.218	1358181	13.223	108	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	764852	16.687	804871	16.701	95	50 - 200	-0.0140	+/-0.50	
1,4-Dichlorobenzene-d4	699830	18.727	670128	18.731	104	50 - 200	-0.0040	+/-0.50	
Blank (1B24021-BLK1)			Lab File ID: 0224BL1E.D			Analyzed: 02/24/11 21:28			
Fluorobenzene	1250145	13.233	1358181	13.223	92	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5	628196	16.691	804871	16.701	78	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	556307	18.731	670128	18.731	83	50 - 200	0.0000	+/-0.50	
GW8018-TB (1102203-07)			Lab File ID: 0220307.D			Analyzed: 02/24/11 21:58			
Fluorobenzene	1154367	13.223	1358181	13.223	85	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	594854	16.692	804871	16.701	74	50 - 200	-0.0090	+/-0.50	
1,4-Dichlorobenzene-d4	534327	18.721	670128	18.731	80	50 - 200	-0.0100	+/-0.50	
GW0005 (1102203-01)			Lab File ID: 0220301D.D			Analyzed: 02/25/11 01:00			
Fluorobenzene	1145637	13.223	1358181	13.223	84	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	588615	16.691	804871	16.701	73	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	546665	18.721	670128	18.731	82	50 - 200	-0.0100	+/-0.50	
GW0006 (1102203-03)			Lab File ID: 0220303D.D			Analyzed: 02/25/11 01:30			
Fluorobenzene	1263086	13.228	1358181	13.223	93	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	633115	16.687	804871	16.701	79	50 - 200	-0.0140	+/-0.50	
1,4-Dichlorobenzene-d4	588667	18.727	670128	18.731	88	50 - 200	-0.0040	+/-0.50	
GW0007 (1102203-05)			Lab File ID: 0220305D.D			Analyzed: 02/25/11 02:00			
Fluorobenzene	1389570	13.221	1358181	13.223	102	50 - 200	-0.0020	+/-0.50	
Chlorobenzene-d5	699411	16.69	804871	16.701	87	50 - 200	-0.0110	+/-0.50	
1,4-Dichlorobenzene-d4	651396	18.72	670128	18.731	97	50 - 200	-0.0110	+/-0.50	
LCS Dup (1B24021-BSD1)			Lab File ID: 0224LD1E.D			Analyzed: 02/25/11 02:30			
Fluorobenzene	1455719	13.223	1358181	13.223	107	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	754662	16.691	804871	16.701	94	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	670920	18.721	670128	18.731	100	50 - 200	-0.0100	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein	2.501	0.0300469	5.002	3.765359E-02	10	4.305044E-02	25.01	3.944713E-02	50.02	4.232565E-02	250.1	3.994906E-02
Acrylonitrile	2.499	6.678352E-02	4.998	7.141979E-02	9.996	8.049185E-02	24.99	7.946148E-02	49.98	8.543478E-02	249.9	7.901282E-02
Benzene	0.5	0.7926387	1	0.8802071	2	0.8431238	5	0.831329	10	0.8954439	50	0.8545027
Bromobenzene	0.5	0.5439878	1	0.5886871	2	0.5864637	5	0.6086893	10	0.6266041	50	0.6321922
Bromochloromethane	0.5	9.355392E-02	1	0.1069342	2	0.1296395	5	0.1204606	10	0.1308553	50	0.1247183
Tert-Amyl Methyl Ether	0.5	~~1.523293~~	1	1.054276	2	0.8820578	5	0.7728646	10	0.7570595	50	0.7142613
Bromodichloromethane	0.5	0.3105529	1	0.3604047	2	0.4022681	5	0.3676804	10	0.3943633	50	0.3747865
Bromoform	0.5	0.2866459	1	0.325656	2	0.3308852	5	0.3663993	10	0.3875103	50	0.3876854
Bromomethane	0.5	7.771688E-02	1	0.1318092	2	0.1572429	5	0.1512574	10	0.1728129	50	0.193832
Bromofluorobenzene	30	0.914355	30	0.9144387	30	0.910796	30	0.9359689	30	0.9009915	30	0.9087363
n-Butylbenzene	0.5	1.745146	1	1.488207	2	1.52998	5	1.599226	10	1.569947	50	1.645848
2-Butanone												
sec-Butylbenzene	0.5	2.094667	1	2.018177	2	1.940458	5	1.992429	10	2.103899	50	2.132415
tert-Butylbenzene	0.5	1.815715	1	1.611961	2	1.607396	5	1.640706	10	1.602946	50	1.626832
Carbon disulfide	0.5	0.7858215	1	0.6896591	2	0.6913353	5	0.7232067	10	0.7509502	50	0.711988
Carbon tetrachloride	0.5	0.2858534	1	0.3054818	2	0.322592	5	0.3254197	10	0.3393713	50	0.3309307
Chlorobenzene	0.5	1.316312	1	1.293493	2	1.292706	5	1.314865	10	1.272897	50	1.198697
Chloroethane	0.5	0.1807101	1	0.1441053	2	0.1621247	5	0.1321144	10	0.1789308	50	0.1562047
Chloroform	0.5	0.4728563	1	0.4937685	2	0.497313	5	0.4692742	10	0.4999221	50	0.4626872
2-Chloroethyl vinyl ether	0.9975	0.1117943	1.995	0.1231848	3.99	0.1390803	9.975	0.1456076	19.95	0.1581281	99.75	0.159035
Chloromethane	0.5	0.3697058	1	0.3754145	2	0.3223509	5	0.3165557	10	0.3258491	50	0.3161815
1-Chlorohexane	0.501	1.36827	1.002	1.272921	2.004	1.198794	5.01	1.243808	10.02	1.243289	50.1	1.209049
2-Chlorotoluene	0.5	1.680488	1	1.731239	2	1.697187	5	1.749113	10	1.734021	50	1.718067
4-Chlorotoluene	0.5	1.829262	1	1.779358	2	1.738436	5	1.80556	10	1.839201	50	1.805999
Cyclohexane	0.5	0.3193105	1	0.2730313	2	0.3226221	5	0.3180858	10	0.3471704	50	0.3488248
Dibromochloromethane	0.5	0.4577034	1	0.5091026	2	0.5393013	5	0.5507077	10	0.5613674	50	0.5478178
1,2-Dibromo-3-chloropropane	0.5	~~0.1001273~~	1	0.1013071	2	0.1052348	5	0.1181647	10	0.1181369	50	0.1285002
1,2-Dibromoethane (EDB)	0.5	0.4444174	1	0.4716357	2	0.4823925	5	0.5067844	10	0.5483033	50	0.5105323
Dibromomethane	0.5	0.1590521	1	0.1884563	2	0.1996273	5	0.1920859	10	0.2007604	50	0.1876595
1,2-Dichlorobenzene	0.5	1.105464	1	1.063757	2	1.016577	5	1.009202	10	1.073579	50	1.055019

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	0.5	1.170368	1	1.189025	2	1.090462	5	1.098028	10	1.151092	50	1.159644
1,4-Dichlorobenzene	0.5	1.233548	1	1.288687	2	1.273443	5	1.192281	10	1.171047	50	1.131966
Dichlorodifluoromethane	0.5	0.3152725	1	0.2994044	2	0.2942955	5	0.3325466	10	0.3591799	50	0.3462217
1,1-Dichloroethane	0.5	0.4112387	1	0.4381107	2	0.4459484	5	0.4257077	10	0.4748405	50	0.4378766
1,2-Dichloroethane	0.5	0.4011177	1	0.3935054	2	0.453678	5	0.4261104	10	0.4378104	50	0.4159968
1,1-Dichloroethene	0.5	0.1698549	1	0.1806263	2	0.1832642	5	0.1759282	10	0.1837654	50	0.1834043
cis-1,2-Dichloroethene	0.5	0.185692	1	0.2178258	2	0.2298976	5	0.2271104	10	0.2411122	50	0.2333006
trans-1,2-Dichloroethene	0.5	0.2231869	1	0.2103633	2	0.2177534	5	0.2057644	10	0.2126566	50	0.2156499
1,2-Dichloroethene (total)	1	0.2044394	2	0.2140945	4	0.2238255	10	0.2164374	20	0.2268844	100	0.2244752
1,2-Dichloropropane	0.5	0.2104439	1	0.2509547	2	0.2513987	5	0.2434349	10	0.2526338	50	0.2528071
1,3-Dichloropropane	0.5	0.7800001	1	0.8724612	2	0.8214503	5	0.8665316	10	0.8543169	50	0.7943883
2,2-Dichloropropane	0.5	0.3578542	1	0.3851383	2	0.3862967	5	0.3716666	10	0.3849003	50	0.3635153
1,1-Dichloropropene	0.5	0.3042076	1	0.2818789	2	0.307163	5	0.3164522	10	0.3320715	50	0.3342827
cis-1,3-Dichloropropene	0.5	0.333784	1	0.387117	2	0.389265	5	0.4110801	10	0.4413035	50	0.4390858
trans-1,3-Dichloropropene	0.5	0.608389	1	0.6874829	2	0.7221219	5	0.7386875	10	0.7753981	50	0.7601071
Diisopropyl Ether	0.5	0.7336956	1	0.7546167	2	0.815219	5	0.8052087	10	0.8808212	50	0.861655
Ethylbenzene	0.5	1.991796	1	2.108929	2	2.112211	5	2.13505	10	2.174285	50	2.095329
Ethyl tert-Butyl Ether	0.5	0.5951477	1	0.6578304	2	0.7283105	5	0.7102012	10	0.7680875	50	0.7676508
Ethyl Methacrylate	0.5	0.4756395	1	0.4813559	2	0.516909	5	0.5932861	10	0.5950089	50	0.6240057
Hexachlorobutadiene	0.5	~~0.4537132~~	1	0.3307785	2	0.2340311	5	0.2478404	10	0.2518845	50	0.2557088
2-Hexanone												
Iodomethane	0.5	~~0.120351~~	1	0.1376039	2	0.1672024	5	0.1893651	10	0.2375727	50	0.2771395
Isopropylbenzene	0.5	1.674592	1	1.464627	2	1.547165	5	1.677859	10	1.717279	50	1.685008
p-Isopropyltoluene	0.5	1.330473	1	1.220622	2	1.190483	5	1.256797	10	1.322767	50	1.366144
Methylene chloride	0.5	0.2457888	1	0.3057927	2	0.278746	5	0.243015	10	0.2468585	50	0.2484226
Methyl Acetate	0.5	0.1755709	1	0.2026181	2	0.2008629	5	0.1984707	10	0.2015995	50	0.1804311
Methylcyclohexane	0.5	0.3356194	1	0.2547142	2	0.2827238	5	0.2703605	10	0.2966588	50	0.2906143
Naphthalene	0.5	1.613613	1	1.189815	2	1.195598	5	1.287733	10	1.344505	50	1.449509
Methyl Methacrylate	0.5	~~0.1355063~~	1	0.1717222	2	0.1905869	5	0.206006	10	0.2258913	50	0.2343712
4-Methyl-2-pentanone												
Methyl t-Butyl Ether	0.5	0.4955631	1	0.5290458	2	0.5893444	5	0.5907874	10	0.6112708	50	0.6046649

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	2.607743	1	2.521289	2	2.468876	5	2.592185	10	2.634534	50	2.71723
Styrene	0.5	0.9955658	1	1.114936	2	1.170507	5	1.297429	10	1.311166	50	1.353042
1,1,2,2-Tetrachloroethane	0.5	0.7076645	1	0.7026986	2	0.7371055	5	0.755625	10	0.7520057	50	0.700547
1,1,1,2-Tetrachloroethane	0.5	0.444196	1	0.4815915	2	0.4593416	5	0.4749294	10	0.480759	50	0.458459
tert-Butyl alcohol	2.5	1.954983E-02	5	0.0199226	10	2.397818E-02	25	2.389425E-02	50	0.0241751	250	2.271466E-02
Tetrachloroethene	0.5	0.4804004	1	0.4846548	2	0.468562	5	0.4952371	10	0.4745579	50	0.4764023
Toluene	0.5	1.111486	1	1.081357	2	1.097642	5	1.103754	10	1.099934	50	1.028931
1,2,3-Trichlorobenzene	0.5	~~0.8452317~~	1	0.5976395	2	0.5379217	5	0.5191667	10	0.5629618	50	0.5762858
1,2,4-Trichlorobenzene	0.5	0.7800813	1	0.6155443	2	0.6007854	5	0.5734345	10	0.6116645	50	0.6449718
1,1,2-Trichloroethane	0.5	0.3858482	1	0.4262159	2	0.3804596	5	0.4230089	10	0.4002435	50	0.3847709
1,1,1-Trichloroethane	0.5	0.3064625	1	0.3405895	2	0.3687734	5	0.3816696	10	0.38283	50	0.379027
Tetrahydrofuran	0.5		1	5.017398E-02	2	5.181662E-02	5	5.648569E-02	10	5.892641E-02	50	5.891316E-02
Trichloroethene	0.5	0.2505085	1	0.2268147	2	0.2566874	5	0.2478813	10	0.243952	50	0.2455939
Trichlorofluoromethane	0.5	0.3902625	1	0.3936467	2	0.4309865	5	0.4300621	10	0.4457228	50	0.4115715
1,2,3-Trichloropropane	0.5	0.1825721	1	0.1534024	2	0.1818626	5	0.165806	10	0.1783511	50	0.1695884
1,3,5-Trimethylbenzene	0.5	1.727534	1	1.577007	2	1.613204	5	1.666487	10	1.713513	50	1.744944
1,2,4-Trimethylbenzene	0.5	1.611766	1	1.602021	2	1.628285	5	1.729907	10	1.800708	50	1.79169
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.2263858	1	0.2238466	2	0.2395257	5	0.2207831	10	0.2260568	50	0.2116512
Vinyl chloride	0.5	0.3243972	1	0.3048317	2	0.3006238	5	0.2961817	10	0.3094522	50	0.3067178
m,p-Xylene	1	1.625157	2	1.572286	4	1.658916	10	1.721801	20	1.742873	100	1.627808
o-Xylene	0.5	1.633295	1	1.690254	2	1.732051	5	1.871485	10	1.835309	50	1.722921
Vinyl acetate	0.9995	~~0.1171058~~	1.999	0.2335318	3.998	0.2451705	9.995	0.2581024	19.99	0.293799	99.95	0.2928919
Xylenes (total)	1.5	1.62787	3	1.611609	6	1.683295	15	1.771696	30	1.773685	150	1.659512
Dibromofluoromethane	30	0.3175126	30	0.3242427	30	0.3448656	30	0.3211449	30	0.3317715	30	0.3254056
1,2-Dichloroethane-d4	30	6.279143E-02	30	6.868324E-02	30	6.651231E-02	30	6.465656E-02	30	6.364869E-02	30	0.0620139
Toluene-d8	30	1.966508	30	1.925585	30	1.906439	30	1.888822	30	1.880824	30	1.887721
tert-Amyl alcohol	2.5		5	1.309329E-02	10	1.154159E-02	25	1.166412E-02	50	1.275219E-02	250	1.361775E-02
tert-Amyl ethyl ether	0.5	0.502695	1	0.5203678	2	0.625491	5	0.6139914	10	0.6545988	50	0.6573529

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone							1	0.105847	2	0.1742808	4	5.096748E-02
Acrolein	500.2	4.414182E-02	750.3	4.649791E-02	1000	4.140661E-02						
Acrylonitrile	499.8	0.0848897	749.7	8.793166E-02	999.6	8.415217E-02						
Benzene	100	0.8497778	150	0.8373855	200	0.8171406						
Bromobenzene	100	0.6675187	150	0.6743485	200	0.6552954						
Bromochloromethane	100	0.1321641	150	0.132715	200	0.1308496						
Tert-Amyl Methyl Ether	100	0.7368235	150	0.7101052	200	0.6873043						
Bromodichloromethane	100	0.3897356	150	0.3752912	200	0.3550348						
Bromoform	100	0.3959007	150	0.3863964	200	0.3550904						
Bromomethane	100	0.2204624	150	0.2246404	200	0.2188912						
Bromofluorobenzene	30	0.8602053	30	0.803208	30	0.761367						
n-Butylbenzene	100	1.675501	150	1.652966	200	1.483944						
2-Butanone							1	8.448716E-02	2	0.1945445	4	0.0505204
sec-Butylbenzene	100	2.152351	150	2.119305	200	1.926077						
tert-Butylbenzene	100	1.665171	150	1.632057	200	1.529674						
Carbon disulfide	100	0.769641	150	0.7796425	200	0.7665669						
Carbon tetrachloride	100	0.3340849	150	0.3229519	200	0.3154304						
Chlorobenzene	100	1.192884	150	1.0945	200	1.012137						
Chloroethane	100	0.1742306	150	0.1677839	200	0.166191						
Chloroform	100	0.4722785	150	0.4691578	200	0.4523661						
2-Chloroethyl vinyl ether	199.5	0.170606	299.2	0.171585	399	0.1576298						
Chloromethane	100	0.3418796	150	0.3266539	200	0.31687						
1-Chlorohexane	100.2	1.160509	150.3	1.063714	200.4	0.9361916						
2-Chlorotoluene	100	1.720806	150	1.776758	200	1.622321						
4-Chlorotoluene	100	1.867514	150	1.834729	200	1.777154						
Cyclohexane	100	0.3614865	150	0.3662319	200	0.3574002						
Dibromochloromethane	100	0.5553437	150	0.5412887	200	0.4942215						
1,2-Dibromo-3-chloropropane	100	0.1387537	150	0.1522199	200	0.1436069						
1,2-Dibromoethane (EDB)	100	0.5016208	150	0.4924687	200	0.4418377						
Dibromomethane	100	0.1948212	150	0.1987863	200	0.1878698						
1,2-Dichlorobenzene	100	1.0953	150	1.100618	200	1.000342						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	100	1.154111	150	1.120568	200	1.077326						
1,4-Dichlorobenzene	100	1.171062	150	1.234115	200	1.129007						
Dichlorodifluoromethane	100	0.3430888	150	0.3053006	200	0.2847898						
1,1-Dichloroethane	100	0.4684626	150	0.4688447	200	0.4526461						
1,2-Dichloroethane	100	0.4265484	150	0.4066324	200	0.3908247						
1,1-Dichloroethene	100	0.193883	150	0.2024271	200	0.1955889						
cis-1,2-Dichloroethene	100	0.2494575	150	0.2547382	200	0.2485001						
trans-1,2-Dichloroethene	100	0.2290056	150	0.2378002	200	0.234169						
1,2-Dichloroethene (total)	200	0.2392315	300	0.2462692	400	0.2413346						
1,2-Dichloropropane	100	0.266367	150	0.2616448	200	0.250989						
1,3-Dichloropropane	100	0.7936719	150	0.7462668	200	0.6950249						
2,2-Dichloropropane	100	0.3745395	150	0.3646956	200	0.3483139						
1,1-Dichloropropene	100	0.3509803	150	0.3487481	200	0.3381829						
cis-1,3-Dichloropropene	100	0.4557198	150	0.4397147	200	0.414939						
trans-1,3-Dichloropropene	100	0.758504	150	0.7321761	200	0.6599538						
Diisopropyl Ether	100	0.9182946	150	0.9444458	200	0.8814371						
Ethylbenzene	100	2.010517	150	1.820262	200	1.621899						
Ethyl tert-Butyl Ether	100	0.79601	150	0.7935578	200	0.7581296						
Ethyl Methacrylate	100	0.6439251	150	0.6213608	200	0.5654902						
Hexachlorobutadiene	100	0.2758719	150	0.2758562	200	0.2781694						
2-Hexanone							1	0.2881206	2	0.6327276	4	0.1488338
Iodomethane	100	0.3136583	150	0.3180348	200	0.3173131						
Isopropylbenzene	100	1.592887	150	1.447012	200	1.291285						
p-Isopropyltoluene	100	1.425295	150	1.451147	200	1.358829						
Methylene chloride	100	0.2585236	150	0.2661379	200	0.262521						
Methyl Acetate	100	0.1973059	150	0.2080119	200	0.2045133						
Methylcyclohexane	100	0.3139667	150	0.3118703	200	0.3052622						
Naphthalene	100	1.545868	150	1.604097	200	1.50932						
Methyl Methacrylate	100	0.254473	150	0.2631975	200	0.2443141						
4-Methyl-2-pentanone							1	0.1770877	2	0.4261594	4	0.1075554
Methyl t-Butyl Ether	100	0.6494634	150	0.6675051	200	0.6440991						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	100	2.710927	150	2.650345	200	2.443556						
Styrene	100	1.295377	150	1.21807	200	1.0837						
1,1,2,2-Tetrachloroethane	100	0.7307782	150	0.7599908	200	0.7034689						
1,1,1,2-Tetrachloroethane	100	0.4495324	150	0.4265499	200	0.3843807						
tert-Butyl alcohol	500	2.436558E-02	750	2.635542E-02	1000	2.453721E-02						
Tetrachloroethene	100	0.4796581	150	0.4569133	200	0.4309663						
Toluene	100	1.04685	150	0.9904622	200	0.888493						
1,2,3-Trichlorobenzene	100	0.6212322	150	0.6472567	200	0.6109577						
1,2,4-Trichlorobenzene	100	0.6909017	150	0.7117211	200	0.6767836						
1,1,2-Trichloroethane	100	0.3894174	150	0.3752957	200	0.3479556						
1,1,1-Trichloroethane	100	0.3884127	150	0.3801613	200	0.3690138						
Tetrahydrofuran	100	6.551079E-02	150	0.0698601	200	6.609126E-02						
Trichloroethene	100	0.2589972	150	0.2466661	200	0.2405622						
Trichlorofluoromethane	100	0.4284283	150	0.4142885	200	0.3650779						
1,2,3-Trichloropropane	100	0.1629579	150	0.1604694	200	0.1399491						
1,3,5-Trimethylbenzene	100	1.77897	150	1.775879	200	1.673602						
1,2,4-Trimethylbenzene	100	1.82765	150	1.86087	200	1.689912						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2352064	150	0.2300822	200	0.2276429						
Vinyl chloride	100	0.3212605	150	0.3005812	200	0.288568						
m,p-Xylene	200	1.472616	300	1.311316	400	1.146934						
o-Xylene	100	1.624356	150	1.470446	200	1.324388						
Vinyl acetate	199.9	0.3148223	299.8	0.3256627	399.8	0.3152118						
Xylenes (total)	300	1.523196	450	1.364359	600	1.206085						
Dibromofluoromethane	30	0.3232992	30	0.3192217	30	0.3271106						
1,2-Dichloroethane-d4	30	6.343065E-02	30	6.501569E-02	30	6.786331E-02						
Toluene-d8	30	1.808983	30	1.800037	30	1.766911						
tert-Amyl alcohol	500	0.0154791	750	1.707898E-02	1000	1.630251E-02						
tert-Amyl ethyl ether	100	0.6973876	150	0.668609	200	0.6285211						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	10	8.091137E-02	20	8.472778E-02	100	8.207723E-02	200	9.158643E-02	300	9.643365E-02	400	8.728197E-02
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone	10	9.396012E-02	20	0.1066098	100	0.1090494	200	0.1243273	300	0.127583	400	0.11917
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone	10	0.3266243	20	0.3671838	100	0.3605019	200	0.4009384	300	0.3907102	400	0.3620698
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone	10	0.2178156	20	0.25652	100	0.2530097	200	0.2767463	300	0.2728866	400	0.2531124
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	9.490153E-02	35.11874	6.444778	7.760536E-02	0.9962118		0.995	
Acrolein	4.050212E-02	11.66847	6.258667	9.437477E-02			15	
Acrylonitrile	7.995309E-02	8.658338	7.252778	9.125197E-02			15	
Benzene	0.8446166	3.664116	13.05667	1.589406E-02			15	
Bromobenzene	0.6204208	6.899589	18.00311	1.924119E-02			15	
Bromochloromethane	0.1224323	11.09981	11.11556	1.970505E-02			15	
Tert-Amyl Methyl Ether	0.789344	15.52968	13.34812	5.009477E-02	0.9990325		0.995	
Bromodichloromethane	0.3700131	7.358442	13.972	1.995359E-02			15	
Bromoform	0.3580188	10.33213	17.27078	2.718296E-02			SPCC (0.1)	
Bromomethane	0.1720739	28.28296	5.274333	0.1246216	0.9991085		0.995	
Bromofluorobenzene	0.8788963	6.739097	17.81833	1.483661E-02			15	
n-Butylbenzene	1.598974	5.569195	19.22844	2.286585E-02			15	
2-Butanone	0.1122502	34.73114	10.50111	0.1547187	0.9977852		0.995	
sec-Butylbenzene	2.053309	4.166657	18.75544	1.897686E-02			15	
tert-Butylbenzene	1.63694	4.685218	18.88344	2.463795E-02			15	
Carbon disulfide	0.740979	5.080183	7.879111	5.470964E-02			15	
Carbon tetrachloride	0.3202351	5.101441	13.02378	3.460528E-02			15	
Chlorobenzene	1.220943	8.778402	16.85467	0.0230222			SPCC (0.3)	
Chloroethane	0.1624884	9.928626	5.469222	0.1098749			15	
Chloroform	0.4766249	3.471597	11.21956	4.506429E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.1485168	13.86846	14.50733	1.998157E-02			15	
Chloromethane	0.3346068	6.864147	4.501333	9.992679E-02			SPCC (0.1)	
1-Chlorohexane	1.188505	10.56141	16.79667	2.801282E-02			15	
2-Chlorotoluene	1.714444	2.587337	18.22233	1.820615E-02			15	
4-Chlorotoluene	1.808579	2.168035	18.28244	2.250717E-02			15	
Cyclohexane	0.3349071	8.859817	12.92533	3.469135E-02			15	
Dibromochloromethane	0.5285393	6.523615	15.86844	1.945299E-02			15	
1,2-Dibromo-3-chloropropane	0.1257405	14.50957	19.63	1.043451E-02			15	
1,2-Dibromoethane (EDB)	0.4888881	6.870215	16.09711	2.927393E-02			15	
Dibromomethane	0.1899021	6.669569	13.811	3.487788E-02			15	
1,2-Dichlorobenzene	1.057762	3.835274	19.22289	2.075924E-02			15	
1,3-Dichlorobenzene	1.134514	3.453945	18.85289	1.935345E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.202795	4.819416	18.90456	2.053349E-02			15	
Dichlorodifluoromethane	0.3200111	8.175819	4.247333	8.114501E-02			15	
1,1-Dichloroethane	0.4470751	4.771398	9.410889	8.676498E-02			SPCC (0.1)	
1,2-Dichloroethane	0.4169138	5.052933	12.32422	0.0374402			15	
1,1-Dichloroethene	0.1854158	5.496992	7.196	0.1042799			CCC (20)	
cis-1,2-Dichloroethene	0.2319594	9.084585	10.82756	5.739556E-02			15	
trans-1,2-Dichloroethene	0.2207055	5.009181	8.807556	6.191007E-02			15	
1,2-Dichloroethene (total)	0.2263324	6.102083	0	0			15	
1,2-Dichloropropane	0.2489638	6.382973	13.86356	5.219406E-02			CCC (20)	
1,3-Dichloropropane	0.8026791	7.291224	15.623	2.647444E-02			15	
2,2-Dichloropropane	0.3707689	3.5969	11.38489	4.647936E-02			15	
1,1-Dichloropropene	0.3237741	7.092263	12.79167	2.414198E-02			15	
cis-1,3-Dichloropropene	0.4124454	9.205903	14.75367	0.0185918			15	
trans-1,3-Dichloropropene	0.7158689	7.591687	15.22011	3.309427E-02			15	
Diisopropyl Ether	0.8439326	8.500125	10.62278	4.151538E-02			15	
Ethylbenzene	2.007809	8.927793	17.00811	1.805769E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.7305473	9.162288	11.41556	5.227118E-02			15	
Ethyl Methacrylate	0.5685535	11.08372	15.66144	2.984729E-02			15	
Hexachlorobutadiene	0.2687676	11.01457	21.325	1.935315E-02			15	
2-Hexanone	0.36419	34.70086	15.77833	3.425747E-02	0.9969121		0.995	
Iodomethane	0.2447362	29.72528	7.25	5.559583E-02	0.9993686		0.995	
Isopropylbenzene	1.566413	9.09391	17.77767	1.866152E-02			15	
p-Isopropyltoluene	1.324729	6.671375	18.577	1.302539E-02			15	
Methylene chloride	0.2617562	7.716747	7.451111	6.731063E-02			15	
Methyl Acetate	0.1965983	5.62942	7.501333	6.414553E-02			15	
Methylcyclohexane	0.2957545	8.279769	14.56322	3.038008E-02			15	
Naphthalene	1.415562	11.77932	21.29878	2.340518E-02			15	
Methyl Methacrylate	0.2238203	14.29097	14.197	3.587692E-02			15	
4-Methyl-2-pentanone	0.2489881	34.48075	14.88256	3.876822E-02	0.9973122		0.995	
Methyl t-Butyl Ether	0.5979716	9.385891	9.119667	0.1432835			15	
n-Propylbenzene	2.594076	3.792861	18.12478	0.0225021			15	
Styrene	1.204421	10.08127	17.42844	2.425388E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0349002
Instrument: MS-VOA5
Matrix: Water
Calibration Date: 12/13/2010 2:13:55PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.7277649	3.387486	17.50067	1.931054E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.4510822	6.834532	16.79667	2.801282E-02			15	
tert-Butyl alcohol	2.327698E-02	9.532707	7.205778	0.1024445			15	
Tetrachloroethene	0.471928	3.948895	16.27244	2.373135E-02			15	
Toluene	1.049879	6.942362	15.56067	1.745815E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.5841777	7.413424	21.56625	2.862758E-02			15	
1,2,4-Trichlorobenzene	0.6562098	9.896622	21.001	2.452696E-02			15	
1,1,2-Trichloroethane	0.3903573	6.159439	15.37567	2.739238E-02			15	
1,1,1-Trichloroethane	0.3663266	7.22728	12.49844	0.0358237			15	
Tetrahydrofuran	5.972225E-02	11.70861	11.82475	0.1139163			15	
Trichloroethene	0.246407	3.817773	13.93467	0.0212948			15	
Trichlorofluoromethane	0.4122274	6.130862	6.301444	9.080712E-02			15	
1,2,3-Trichloropropane	0.1661066	8.430506	17.61244	2.391162E-02			15	
1,3,5-Trimethylbenzene	1.696793	4.132945	18.33167	2.167581E-02			15	
1,2,4-Trimethylbenzene	1.726979	5.706479	18.65689	1.854308E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2267979	3.552182	7.568111	9.178277E-02			15	
Vinyl chloride	0.305846	3.734151	4.731333	0.1367484			CCC (20)	
m,p-Xylene	1.54219	12.88011	17.16233	2.624017E-02			15	
o-Xylene	1.656056	10.36993	17.491	1.445182E-02			15	
Vinyl acetate	0.284899	12.27004	9.73825	5.344834E-02			15	
Xylenes (total)	1.580145	11.92563	0	0			15	
Dibromofluoromethane	0.3260638	2.526002	11.42756	0.0353478			15	
1,2-Dichloroethane-d4	6.495731E-02	3.537328	12.20267	3.612929E-02			15	
Toluene-d8	1.870203	3.473583	15.48944	1.871955E-02			15	
tert-Amyl alcohol	1.394119E-02	15.08696	12.066	5.701451E-02	0.9971839		0.995	
tert-Amyl ethyl ether	0.6187794	10.65214	14.43178	3.505809E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	SEQ-ICV1.D	Calibration Date:	12/13/10 14:13
Sequence:	0L34902	Injection Date:	12/13/10
Lab Sample ID:	0L34902-ICV1	Injection Time:	19:14

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzene	A	50.00	50.47	0.8446166	0.8525389		0.9	20
Bromobenzene	A	50.00	53.18	0.6204208	0.6598372		6.4	20
Bromochloromethane	A	50.00	53.82	0.1224323	0.1317814		7.6	20
Bromodichloromethane	A	50.00	50.08	0.3700131	0.3705788		0.2	20
Bromoform	A	50.00	55.44	0.3580188	0.3969678	0.1	10.9	20
Bromomethane	L	50.00	42.68	0.1720739	0.1828664		-14.6	20
n-Butylbenzene	A	50.00	52.55	1.598974	1.680413		5.1	20
sec-Butylbenzene	A	50.00	53.19	2.053309	2.184335		6.4	20
tert-Butylbenzene	A	50.00	51.40	1.63694	1.682618		2.8	20
Carbon disulfide	A	50.00	51.96	0.740979	0.7700032		3.9	20
Carbon tetrachloride	A	50.00	48.47	0.3202351	0.3104302		-3.1	20
Chlorobenzene	A	50.00	51.95	1.220943	1.26847	0.3	3.9	20
Chloroethane	A	50.00	49.55	0.1624884	0.1610407		-0.9	20
Chloroform	A	50.00	46.61	0.4766249	0.4443466		-6.8	20
Chloromethane	A	50.00	49.31	0.3346068	0.3299584	0.1	-1.4	20
2-Chlorotoluene	A	50.00	51.57	1.714444	1.768292		3.1	20
4-Chlorotoluene	A	50.00	51.44	1.808579	1.860785		2.9	20
Dibromochloromethane	A	50.00	53.57	0.5285393	0.5663252		7.1	20
1,2-Dibromo-3-chloropropane	A	50.00	54.70	0.1257405	0.1375679		9.4	20
1,2-Dibromoethane (EDB)	A	50.00	53.02	0.4888881	0.5184059		6.0	20
Dibromomethane	A	50.00	49.71	0.1899021	0.1888078		-0.6	20
1,2-Dichlorobenzene	A	50.00	51.40	1.057762	1.087484		2.8	20
1,3-Dichlorobenzene	A	50.00	48.94	1.134514	1.110547		-2.1	20
1,4-Dichlorobenzene	A	50.00	51.22	1.202795	1.232139		2.4	20
Dichlorodifluoromethane	A	50.00	51.31	0.3200111	0.3284131		2.6	20
1,1-Dichloroethane	A	50.00	49.05	0.4470751	0.4385539	0.1	-1.9	20
1,2-Dichloroethane	A	50.00	46.34	0.4169138	0.3864328		-7.3	20
1,1-Dichloroethene	A	50.00	55.80	0.1854158	0.2069069		11.6	20
cis-1,2-Dichloroethene	A	50.00	52.42	0.2319594	0.2431796		4.8	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	SEQ-ICV1.D	Calibration Date:	12/13/10 14:13
Sequence:	0L34902	Injection Date:	12/13/10
Lab Sample ID:	0L34902-ICV1	Injection Time:	19:14

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
trans-1,2-Dichloroethene	A	50.00	52.73	0.2207055	0.2327379		5.5	20
1,2-Dichloropropane	A	50.00	49.79	0.2489638	0.2479107		-0.4	20
1,3-Dichloropropane	A	50.00	49.43	0.8026791	0.7934915		-1.1	20
2,2-Dichloropropane	A	50.00	44.67	0.3707689	0.3312786		-10.7	20
1,1-Dichloropropene	A	50.00	53.03	0.3237741	0.3433633		6.1	20
cis-1,3-Dichloropropene	A	50.00	48.27	0.4124454	0.3981959		-3.5	20
trans-1,3-Dichloropropene	A	50.00	58.67	0.7158689	0.8400282		17.3	20
Ethylbenzene	A	50.00	52.17	2.007809	2.094992		4.3	20
Hexachlorobutadiene	A	50.00	56.12	0.2687676	0.3016678		12.2	20
Isopropylbenzene	A	50.00	56.51	1.566413	1.770488		13.0	20
p-Isopropyltoluene	A	50.00	54.08	1.324729	1.432807		8.2	20
Methylene chloride	A	50.00	49.52	0.2617562	0.2592243		-1.0	20
Naphthalene	A	50.00	55.11	1.415562	1.560129		10.2	20
Methyl t-Butyl Ether	A	50.00	52.54	0.5979716	0.6283221		5.1	20
n-Propylbenzene	A	50.00	53.69	2.594076	2.785659		7.4	20
Styrene	A	50.00	55.50	1.204421	1.337017		11.0	20
1,1,2,2-Tetrachloroethane	A	50.00	51.52	0.7277649	0.749886	0.3	3.0	20
1,1,1,2-Tetrachloroethane	A	50.00	50.87	0.4510822	0.4588884		1.7	20
Tetrachloroethene	A	50.00	53.15	0.471928	0.501621		6.3	20
Toluene	A	50.00	51.58	1.049879	1.083057		3.2	20
1,2,3-Trichlorobenzene	A	50.00	52.33	0.5841777	0.6113597		4.7	20
1,2,4-Trichlorobenzene	A	50.00	51.81	0.6562098	0.6799097		3.6	20
1,1,2-Trichloroethane	A	50.00	51.70	0.3903573	0.4036473		3.4	20
1,1,1-Trichloroethane	A	50.00	47.63	0.3663266	0.348945		-4.7	20
Trichloroethene	A	50.00	50.38	0.246407	0.2482574		0.8	20
Trichlorofluoromethane	A	50.00	47.66	0.4122274	0.3929249		-4.7	20
1,2,3-Trichloropropane	A	50.00	48.32	0.1661066	0.1605261		-3.4	20
1,3,5-Trimethylbenzene	A	50.00	51.30	1.696793	1.740882		2.6	20
1,2,4-Trimethylbenzene	A	50.00	53.64	1.726979	1.852544		7.3	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	SEQ-ICV1.D	Calibration Date:	12/13/10 14:13
Sequence:	0L34902	Injection Date:	12/13/10
Lab Sample ID:	0L34902-ICV1	Injection Time:	19:14

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Vinyl chloride	A	50.00	49.87	0.305846	0.3050633		-0.3	20
m,p-Xylene	A	100.0	103.3	1.54219	1.593317		3.3	20
o-Xylene	A	50.00	51.96	1.656056	1.721054		3.9	20
Bromofluorobenzene	A	30.00	29.29	0.8788963	0.8581073		-2.4	20
Dibromofluoromethane	A	30.00	29.02	0.3260638	0.3154123		-3.3	20
1,2-Dichloroethane-d4	A	30.00	29.96	6.495731E-02	6.486496E-02		-0.1	20
Toluene-d8	A	30.00	32.06	1.870203	1.998743		6.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	SEQ-ICV3.D	Calibration Date:	12/13/10 14:13
Sequence:	0L34902	Injection Date:	12/14/10
Lab Sample ID:	0L34902-ICV2	Injection Time:	10:27

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	L	200.0	206.8	9.490153E-02	9.360305E-02		3.4	20
2-Butanone	L	200.0	209.9	0.1122502	0.1278963		4.9	20
2-Hexanone	L	200.0	210.9	0.36419	0.3970769		5.4	20
4-Methyl-2-pentanone	L	200.0	211.4	0.2489881	0.2775549		5.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0224CC1E.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05612	Injection Date:	02/24/11
Lab Sample ID:	1B05612-CCV1	Injection Time:	19:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	L	200.0	309.9	9.490153E-02	0.1404714		55.0	20 *
Benzene	A	100.0	103.2	0.8446166	0.8721		3.3	20
Bromobenzene	A	100.0	102.4	0.6204208	0.6351282		2.4	20
Bromochloromethane	A	100.0	109.2	0.1224323	0.133738		9.2	20
Bromodichloromethane	A	100.0	114.0	0.3700131	0.4216329		14.0	20
Bromoform	A	100.0	119.0	0.3580188	0.4262222	0.1	19.1	20
Bromomethane	L	100.0	103.3	0.1720739	0.2263494		3.3	20
n-Butylbenzene	A	100.0	96.48	1.598974	1.542675		-3.5	20
2-Butanone	L	200.0	260.9	0.1122502	0.1592514		30.4	20 *
sec-Butylbenzene	A	100.0	99.71	2.053309	2.047288		-0.3	20
tert-Butylbenzene	A	100.0	98.63	1.63694	1.614573		-1.4	20
Carbon disulfide	A	100.0	96.67	0.740979	0.7162831		-3.3	20
Carbon tetrachloride	A	100.0	126.9	0.3202351	0.4063089		26.9	20 *
Chlorobenzene	A	100.0	90.36	1.220943	1.103267	0.3	-9.6	20
Chloroethane	A	100.0	108.2	0.1624884	0.1757403		8.2	20
Chloroform	A	100.0	110.0	0.4766249	0.5244819		10.0	20
Chloromethane	A	100.0	95.61	0.3346068	0.319914	0.1	-4.4	20
2-Chlorotoluene	A	100.0	94.07	1.714444	1.612717		-5.9	20
4-Chlorotoluene	A	100.0	95.46	1.808579	1.726543		-4.5	20
Dibromochloromethane	A	100.0	106.6	0.5285393	0.5634277		6.6	20
1,2-Dibromo-3-chloropropane	A	100.0	109.5	0.1257405	0.1376379		9.5	20
1,2-Dibromoethane (EDB)	A	100.0	98.35	0.4888881	0.4808034		-1.7	20
Dibromomethane	A	100.0	110.8	0.1899021	0.2104343		10.8	20
1,2-Dichlorobenzene	A	100.0	99.37	1.057762	1.051071		-0.6	20
1,3-Dichlorobenzene	A	100.0	98.92	1.134514	1.122289		-1.1	20
1,4-Dichlorobenzene	A	100.0	93.94	1.202795	1.129889		-6.1	20
Dichlorodifluoromethane	A	100.0	105.6	0.3200111	0.3379094		5.6	20
1,1-Dichloroethane	A	100.0	107.6	0.4470751	0.4810771	0.1	7.6	20
1,2-Dichloroethane	A	100.0	118.3	0.4169138	0.49322		18.3	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0224CC1E.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05612	Injection Date:	02/24/11
Lab Sample ID:	1B05612-CCV1	Injection Time:	19:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	100.0	110.8	0.1854158	0.2054863		10.8	20	
cis-1,2-Dichloroethene	A	100.0	111.9	0.2319594	0.2595942		11.9	20	
trans-1,2-Dichloroethene	A	100.0	105.9	0.2207055	0.2338036		5.9	20	
1,2-Dichloropropane	A	100.0	101.9	0.2489638	0.2536873		1.9	20	
1,3-Dichloropropane	A	100.0	91.21	0.8026791	0.7321617		-8.8	20	
2,2-Dichloropropane	A	100.0	115.3	0.3707689	0.4274119		15.3	20	
1,1-Dichloropropene	A	100.0	115.3	0.3237741	0.373359		15.3	20	
cis-1,3-Dichloropropene	A	100.0	114.8	0.4124454	0.4737151		14.9	20	
trans-1,3-Dichloropropene	A	100.0	101.4	0.7158689	0.7257802		1.4	20	
Ethylbenzene	A	100.0	93.51	2.007809	1.877464		-6.5	20	
Hexachlorobutadiene	A	100.0	121.9	0.2687676	0.3277617		21.9	20	*
2-Hexanone	L	200.0	241.4	0.36419	0.4544813		20.7	20	*
Isopropylbenzene	A	100.0	95.89	1.566413	1.502028		-4.1	20	
p-Isopropyltoluene	A	100.0	104.3	1.324729	1.382186		4.3	20	
Methylene chloride	A	100.0	104.6	0.2617562	0.273865		4.6	20	
Naphthalene	A	100.0	102.8	1.415562	1.454617		2.8	20	
4-Methyl-2-pentanone	L	200.0	282.6	0.2489881	0.3709827		41.3	20	*
Methyl t-Butyl Ether	A	100.0	118.1	0.5979716	0.7064798		18.1	20	
n-Propylbenzene	A	100.0	96.34	2.594076	2.49919		-3.7	20	
Styrene	A	100.0	96.89	1.204421	1.167012		-3.1	20	
1,1,2,2-Tetrachloroethane	A	100.0	93.44	0.7277649	0.6799902	0.3	-6.6	20	
1,1,1,2-Tetrachloroethane	A	100.0	100.9	0.4510822	0.4551032		0.9	20	
Tetrachloroethene	A	100.0	101.9	0.471928	0.48086		1.9	20	
Toluene	A	100.0	91.47	1.049879	0.9603492		-8.5	20	
1,2,3-Trichlorobenzene	A	100.0	105.7	0.5841777	0.6175225		5.7	20	
1,2,4-Trichlorobenzene	A	100.0	105.2	0.6562098	0.6902299		5.2	20	
1,1,2-Trichloroethane	A	100.0	91.43	0.3903573	0.3569044		-8.6	20	
1,1,1-Trichloroethane	A	100.0	122.2	0.3663266	0.4476627		22.2	20	*
Trichloroethene	A	100.0	108.4	0.246407	0.2669834		8.4	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	0349002
Lab File ID:	0224CC1E.D	Calibration Date:	12/13/10 14:13
Sequence:	1B05612	Injection Date:	02/24/11
Lab Sample ID:	1B05612-CCV1	Injection Time:	19:30

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	120.7	0.4122274	0.4974031		20.7	20 *
1,2,3-Trichloropropane	A	100.0	101.4	0.1661066	0.1684455		1.4	20
1,3,5-Trimethylbenzene	A	100.0	99.33	1.696793	1.685414		-0.7	20
1,2,4-Trimethylbenzene	A	100.0	101.8	1.726979	1.758064		1.8	20
Vinyl chloride	A	100.0	112.5	0.305846	0.3440009		12.5	20
m,p-Xylene	A	200.0	178.8	1.54219	1.379077		-10.6	20
o-Xylene	A	100.0	92.03	1.656056	1.524124		-8.0	20
Bromofluorobenzene	A	30.00	28.02	0.8788963	0.8209962		-6.6	20
Dibromofluoromethane	A	30.00	32.91	0.3260638	0.3576512		9.7	20
1,2-Dichloroethane-d4	A	30.00	28.77	6.495731E-02	6.229288E-02		-4.1	20
Toluene-d8	A	30.00	26.95	1.870203	1.680189		-10.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24021-BLK1 File ID: 0224BL1E.D

Sampled: Prepared: Analyzed: 02/24/11 21:28

Solids: Preparation: 5030B Dilution:

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	X, U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	Q, U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	X, U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	X, U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	Q, U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	Q, U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	Q, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.317	0.250	0.500	1.00	X, J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24021-BLK1 File ID: 0224BL1E.D

Sampled: Prepared: Analyzed: 02/24/11 21:28

Solids: Preparation: 5030B Dilution:

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	X, U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	X, U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	X, U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	Q, U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.26	101	75 - 120	
Dibromofluoromethane	30.00	32.69	109	85 - 115	
1,2-Dichloroethane-d4	30.00	29.56	98.5	70 - 120	
Toluene-d8	30.00	29.91	99.7	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24021-BS1 File ID: 0224LS1E.D

Sampled: Prepared: Analyzed: 02/24/11 20:00

Solids: Preparation: 5030B Dilution:

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	121	2.50	5.00	10.0	X
71-43-2	Benzene	47.3	0.250	0.500	1.00	
108-86-1	Bromobenzene	54.0	0.250	0.500	1.00	
74-97-5	Bromochloromethane	51.3	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	58.1	0.250	0.500	1.00	
75-25-2	Bromoform	66.5	0.250	0.500	1.00	
74-83-9	Bromomethane	24.3	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	51.0	0.250	0.500	1.00	
78-93-3	2-Butanone	103	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	52.5	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	54.3	0.250	0.500	1.00	
75-15-0	Carbon disulfide	28.6	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	53.8	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	50.5	0.250	0.500	1.00	
75-00-3	Chloroethane	28.2	0.500	1.00	2.00	
67-66-3	Chloroform	51.3	0.250	0.500	1.00	
74-87-3	Chloromethane	10.5	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	50.3	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	49.3	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	59.4	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	56.9	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	53.8	0.250	0.500	1.00	
74-95-3	Dibromomethane	52.6	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	52.7	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	49.8	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	52.8	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	2.55	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	48.5	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	54.5	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	42.1	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	48.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	46.1	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	49.2	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	50.5	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	47.9	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	51.6	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	51.2	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	60.4	0.250	0.500	1.00	
100-41-4	Ethylbenzene	53.7	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	62.7	0.250	0.500	1.00	X, B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24021-BS1 File ID: 0224LS1E.D

Sampled: Prepared: Analyzed: 02/24/11 20:00

Solids: Preparation: 5030B Dilution:

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	109	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	59.9	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	54.1	0.250	0.500	1.00	
75-09-2	Methylene chloride	45.8	0.500	1.00	2.00	
91-20-3	Naphthalene	53.2	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	111	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	97.6	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	49.0	0.250	0.500	1.00	
100-42-5	Styrene	55.8	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	49.8	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	56.7	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	53.6	0.250	0.500	1.00	
108-88-3	Toluene	48.9	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	52.1	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	53.0	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.4	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	53.0	0.250	0.500	1.00	X
79-01-6	Trichloroethene	51.8	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	31.8	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	54.9	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	52.7	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	53.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride	15.6	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	104	0.500	1.00	2.00	
95-47-6	o-Xylene	53.1	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.29	97.6	75 - 120	
Dibromofluoromethane	30.00	31.42	105	85 - 115	
1,2-Dichloroethane-d4	30.00	30.37	101	70 - 120	
Toluene-d8	30.00	28.89	96.3	85 - 120	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24021-BSD1 File ID: 0224LD1E.D

Sampled: Prepared: Analyzed: 02/25/11 02:30

Solids: Preparation: 5030B Dilution:

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	115	2.50	5.00	10.0	X
71-43-2	Benzene	45.3	0.250	0.500	1.00	
108-86-1	Bromobenzene	55.2	0.250	0.500	1.00	
74-97-5	Bromochloromethane	51.1	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	56.4	0.250	0.500	1.00	
75-25-2	Bromoform	65.9	0.250	0.500	1.00	
74-83-9	Bromomethane	20.2	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	51.4	0.250	0.500	1.00	
78-93-3	2-Butanone	100	2.50	5.00	10.0	X
135-98-8	sec-Butylbenzene	53.3	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	53.4	0.250	0.500	1.00	
75-15-0	Carbon disulfide	26.7	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	51.2	0.250	0.500	1.00	X
108-90-7	Chlorobenzene	48.5	0.250	0.500	1.00	
75-00-3	Chloroethane	24.1	0.500	1.00	2.00	
67-66-3	Chloroform	49.6	0.250	0.500	1.00	
74-87-3	Chloromethane	9.52	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	49.9	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	45.0	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	58.7	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	55.3	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	53.9	0.250	0.500	1.00	
74-95-3	Dibromomethane	50.8	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.9	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	55.0	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	48.0	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	2.20	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	46.5	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	54.7	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	38.5	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	47.9	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	43.2	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	46.9	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	49.2	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	39.5	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	49.4	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	49.5	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	58.2	0.250	0.500	1.00	
100-41-4	Ethylbenzene	51.8	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	58.2	0.250	0.500	1.00	X, B

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24021-BSD1 File ID: 0224LD1E.D

Sampled: Prepared: Analyzed: 02/25/11 02:30

Solids: Preparation: 5030B Dilution:

Batch: 1B24021 Sequence: 1B05612 Calibration: 0349002 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	103	1.25	2.50	5.00	X
98-82-8	Isopropylbenzene	59.3	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	54.6	0.250	0.500	1.00	
75-09-2	Methylene chloride	43.5	0.500	1.00	2.00	
91-20-3	Naphthalene	51.4	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	107	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	96.5	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	51.5	0.250	0.500	1.00	
100-42-5	Styrene	54.6	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	50.4	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	55.9	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	51.7	0.250	0.500	1.00	
108-88-3	Toluene	48.5	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	51.4	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	53.0	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	50.5	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	50.2	0.250	0.500	1.00	X
79-01-6	Trichloroethene	49.1	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	30.8	0.500	1.00	2.00	X
96-18-4	1,2,3-Trichloropropane	55.9	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	54.0	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	55.0	0.250	0.500	1.00	
75-01-4	Vinyl chloride	14.3	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	103	0.500	1.00	2.00	
95-47-6	o-Xylene	52.0	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.81	103	75 - 120	
Dibromofluoromethane	30.00	30.75	102	85 - 115	
1,2-Dichloroethane-d4	30.00	28.48	94.9	70 - 120	
Toluene-d8	30.00	29.43	98.1	85 - 120	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_005

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0005	02/21/11 16:14	02/22/11 08:45	02/24/11 00:00	N/A	14.00	02/25/11 01:00	3.32	14.00	
GW0006	02/21/11 16:14	02/22/11 08:45	02/24/11 00:00	N/A	14.00	02/25/11 01:30	3.34	14.00	
GW0007	02/21/11 10:36	02/22/11 08:45	02/24/11 00:00	N/A	14.00	02/25/11 02:00	3.60	14.00	
GW8018-TB	02/21/11 08:00	02/22/11 08:45	02/24/11 00:00	N/A	14.00	02/24/11 21:58	3.54	14.00	

SW8015B (GRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1A02805	Instrument:	GL-GCVOA2
Calibration:	1028002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1A02805-CAL1	003F0301.D	01/27/11 18:33
Cal Standard	1A02805-CAL2	004F0401.D	01/27/11 19:08
Cal Standard	1A02805-CAL3	005F0501.D	01/27/11 19:44
Cal Standard	1A02805-CAL4	006F0601.D	01/27/11 20:20
Cal Standard	1A02805-CAL5	007F0701.D	01/27/11 20:55
Cal Standard	1A02805-CAL6	008F0801.D	01/27/11 21:31
Initial Cal Check	1A02805-ICV1	009F0901.D	01/27/11 22:07

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05519	Instrument:	GL-GCVOA2
Calibration:	1028002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B05519-CCV1	003F0301.D	02/23/11 13:24
Blank	1B22015-BLK1	008F0801.D	02/23/11 16:16
LCS	1B22015-BS1	009F0901.D	02/23/11 16:51
LCS Dup	1B22015-BSD1	010F1001.D	02/23/11 17:25
Calibration Check	1B05519-CCV2	021F2101.D	02/23/11 23:47
GW0005	1102203-01	023F2301.D	02/24/11 00:58
GW0006	1102203-03	024F2401.D	02/24/11 01:34
GW0007	1102203-05	025F2501.D	02/24/11 02:10
Calibration Check	1B05519-CCV3	026F2601.D	02/24/11 09:10

ANALYSIS DATA SHEET

GW0005

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_005
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102203-01	File ID:	023F2301.D
Sampled:	02/21/11 16:14	Prepared:	02/23/11 11:38	Analyzed:	02/24/11 00:58
Solids:		Preparation:	8015GRO	Dilution:	100
Batch:	1B22015	Sequence:	1B05519	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	36.5	5.00	10.0	15.0	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05551	111	50 - 150	

ANALYSIS DATA SHEET

GW0006

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_005
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102203-03	File ID:	024F2401.D
Sampled:	02/21/11 16:14	Prepared:	02/23/11 11:38	Analyzed:	02/24/11 01:34
Solids:		Preparation:	8015GRO	Dilution:	100
Batch:	1B22015	Sequence:	1B05519	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	35.0	5.00	10.0	15.0	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05645	113	50 - 150	

ANALYSIS DATA SHEET

GW0007

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_005
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102203-05	File ID:	025F2501.D
Sampled:	02/21/11 10:36	Prepared:	02/23/11 11:38	Analyzed:	02/24/11 02:10
Solids:		Preparation:	8015GRO	Dilution:	10
Batch:	1B22015	Sequence:	1B05519	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	22.0	0.500	1.00	1.50	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05713	114	50 - 150	

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B22015	Laboratory ID:	1B22015-BS1
Preparation:	8015GRO	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5479	110	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5863	117	6.78	50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B22015 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0005	1102203-01	02/23/11 11:38	5.00	5.00
GW0006	1102203-03	02/23/11 11:38	5.00	5.00
GW0007	1102203-05	02/23/11 11:38	5.00	5.00
Blank	1B22015-BLK1	02/23/11 11:38	5.00	5.00
LCS	1B22015-BS1	02/23/11 11:38	5.00	5.00
LCS Dup	1B22015-BSD1	02/23/11 11:38	5.00	5.00

INITIAL CALIBRATION STANDARDS

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1A02805	Instrument:	GL-GCVOA2
Calibration:	1028002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11A0780	GRO Cal 0.1ppm	1A02805-CAL1	003F0301.D	01/27/11 18:33
11A0781	GRO Cal 0.2ppm	1A02805-CAL2	004F0401.D	01/27/11 19:08
11A0783	GRO Cal 0.5ppm	1A02805-CAL3	005F0501.D	01/27/11 19:44
11A0789	GRO Cal 1.0ppm	1A02805-CAL4	006F0601.D	01/27/11 20:20
11A0790	GRO Cal 2.0ppm	1A02805-CAL5	007F0701.D	01/27/11 20:55
11A0791	GRO Cal 5.0ppm	1A02805-CAL6	008F0801.D	01/27/11 21:31

INITIAL CALIBRATION DATA

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1028002	Instrument:	GL-GCVOA2
Matrix:	Water	Calibration Date:	1/27/2011 6:33:04PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Gasoline Range Organics (C6-C10	5	2516042	2	2730054	1	2493619	0.5	2526354	0.2	3408960	0.1	3753180
Bromofluorobenzene	0.5	1483418	0.2	1700855	0.1	1733590	0.05	1558880	0.02	1723950	0.01	1745400

INITIAL CALIBRATION DATA (Continued)

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1028002	Instrument:	GL-GCVOA2
Matrix:	Water	Calibration Date:	1/27/2011 6:33:04PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Gasoline Range Organics (C6-C10)	2904701	18.65348	7.287	1.259059E-02			20	
Bromofluorobenzene	1657682	6.599566	19.57967	2.614775E-02			20	

INITIAL CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	009F0901.D	Calibration Date:	01/27/11 18:33
Sequence:	1A02805	Injection Date:	01/27/11
Lab Sample ID:	1A02805-ICV1	Injection Time:	22:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5128	2904701	2979066		2.6	20
Bromofluorobenzene	A	0.05000	0.05836	1657682	1934860		16.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	003F0301.D	Calibration Date:	01/27/11 18:33
Sequence:	1B05519	Injection Date:	02/23/11
Lab Sample ID:	1B05519-CCV1	Injection Time:	13:24

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5309	2904701	3084116		6.2	20
Bromofluorobenzene	A	0.05000	0.05622	1657682	1863880		12.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	021F2101.D	Calibration Date:	01/27/11 18:33
Sequence:	1B05519	Injection Date:	02/23/11
Lab Sample ID:	1B05519-CCV2	Injection Time:	23:47

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.4882	2904701	2835900		-2.4	20
Bromofluorobenzene	A	0.05000	0.05275	1657682	1748800		5.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	026F2601.D	Calibration Date:	01/27/11 18:33
Sequence:	1B05519	Injection Date:	02/24/11
Lab Sample ID:	1B05519-CCV3	Injection Time:	09:10

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5908	2904701	3432306		18.2	20
Bromofluorobenzene	A	0.05000	0.05708	1657682	1892460		14.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05519
Instrument: GL-GCVOA2
Calibration: 1028002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1B05519-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 02/23/11 13:24		
Bromofluorobenzene	0.05000	112	80 - 120	19.573	19.573	0.0000	+/-0.210	
Blank (1B22015-BLK1) mg/L				Lab File ID: 008F0801.D		Analyzed: 02/23/11 16:16		
Bromofluorobenzene	0.05000	108	50 - 150	19.576	19.573	0.0030	+/-0.210	
LCS (1B22015-BS1) mg/L				Lab File ID: 009F0901.D		Analyzed: 02/23/11 16:51		
Bromofluorobenzene	0.05000	110	50 - 150	19.576	19.573	0.0030	+/-0.210	
LCS Dup (1B22015-BSD1) mg/L				Lab File ID: 010F1001.D		Analyzed: 02/23/11 17:25		
Bromofluorobenzene	0.05000	109	50 - 150	19.58	19.573	0.0070	+/-0.210	
Calibration Check (1B05519-CCV2) ug/mL				Lab File ID: 021F2101.D		Analyzed: 02/23/11 23:47		
Bromofluorobenzene	0.05000	106	80 - 120	19.563	19.573	-0.0100	+/-0.210	
GW0005 (1102203-01) mg/L				Lab File ID: 023F2301.D		Analyzed: 02/24/11 00:58		
Bromofluorobenzene	0.05000	111	50 - 150	19.566	19.573	-0.0070	+/-0.210	
GW0006 (1102203-03) mg/L				Lab File ID: 024F2401.D		Analyzed: 02/24/11 01:34		
Bromofluorobenzene	0.05000	113	50 - 150	19.57	19.573	-0.0030	+/-0.210	
GW0007 (1102203-05) mg/L				Lab File ID: 025F2501.D		Analyzed: 02/24/11 02:10		
Bromofluorobenzene	0.05000	114	50 - 150	19.57	19.573	-0.0030	+/-0.210	
Calibration Check (1B05519-CCV3) ug/mL				Lab File ID: 026F2601.D		Analyzed: 02/24/11 09:10		
Bromofluorobenzene	0.05000	114	80 - 120	19.6	19.573	0.0270	+/-0.210	

HOLDING TIME SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_005

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0005	02/21/11 16:14	02/22/11 08:45	02/23/11 11:38	N/A	14.00	02/24/11 00:58	2.32	14.00	
GW0006	02/21/11 16:14	02/22/11 08:45	02/23/11 11:38	N/A	14.00	02/24/11 01:34	2.35	14.00	
GW0007	02/21/11 10:36	02/22/11 08:45	02/23/11 11:38	N/A	14.00	02/24/11 02:10	2.61	14.00	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B22015-BLK1 File ID: 008F0801.D

Sampled: Prepared: Analyzed: 02/23/11 16:16

Solids: Preparation: 8015GRO Dilution:

Batch: 1B22015 Sequence: 1B05519 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05386	108	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B22015-BS1
File ID: 009F0901.D
Sampled:
Prepared:
Analyzed: 02/23/11 16:51
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1B22015
Sequence: 1B05519
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5479	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05518	110	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B22015-BSD1
File ID: 010F1001.D
Sampled:
Prepared:
Analyzed: 02/23/11 17:25
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1B22015
Sequence: 1B05519
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5863	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.05457	109	50 - 150	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Instrument: GL-GCVOA2

Analyte	MDL	MRL	Units	Method
Gasoline Range Organics (C6-C10)	0.0500	0.150	mg/L	SW8015B

SW8015B (DRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05511	Instrument:	GL-GCFID2
Calibration:	1055002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B05511-CAL6	003F0301.D	02/23/11 12:03
Cal Standard	1B05511-CAL5	004F0401.D	02/23/11 12:37
Cal Standard	1B05511-CAL4	005F0501.D	02/23/11 13:10
Cal Standard	1B05511-CAL3	006F0601.D	02/23/11 13:44
Cal Standard	1B05511-CAL2	007F0701.D	02/23/11 14:17
Cal Standard	1B05511-CAL1	008F0801.D	02/23/11 14:50
Initial Cal Check	1B05511-ICV1	009F0901.D	02/23/11 15:23

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C06012	Instrument:	GL-GCFID2
Calibration:	1055002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1C06012-CCV1	004F0401.D	02/28/11 16:48
Blank	1B25007-BLK1	010F1001.D	02/28/11 20:08
LCS	1B25007-BS1	011F1101.D	02/28/11 20:41
LCS Dup	1B25007-BSD1	012F1201.D	02/28/11 21:14
Calibration Check	1C06012-CCV2	016F1601.D	02/28/11 23:28

ANALYSIS SEQUENCE SUMMARY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C06102	Instrument:	GL-GCFID2
Calibration:	1055002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1C06102-CCV1	053F5301.D	03/02/11 01:18
GW0005	1102203-01	054F5401.D	03/02/11 01:51
GW0006	1102203-03	055F5501.D	03/02/11 02:25
GW0007	1102203-05	056F5601.D	03/02/11 02:58
Calibration Check	1C06102-CCV2	057F5701.D	03/02/11 03:32

ANALYSIS DATA SHEET

GW0005

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_005
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102203-01	File ID:	054F5401.D
Sampled:	02/21/11 16:14	Prepared:	02/25/11 13:05	Analyzed:	03/02/11 01:51
Solids:		Preparation:	EXT_3510	Dilution:	100
Batch:	1B25007	Sequence:	1C06102	Calibration:	1055002
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	162	9.26	9.26	9.26	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01852	0.000		30 - 140	DU

ANALYSIS DATA SHEET

GW0006

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_005
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102203-03	File ID:	055F5501.D
Sampled:	02/21/11 16:14	Prepared:	02/25/11 13:05	Analyzed:	03/02/11 02:25
Solids:		Preparation:	EXT_3510	Dilution:	200
Batch:	1B25007	Sequence:	1C06102	Calibration:	1055002
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	199	18.5	18.5	18.5	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01852	0.000		30 - 140	DU

ANALYSIS DATA SHEET

GW0007

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_005
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102203-05	File ID:	056F5601.D
Sampled:	02/21/11 10:36	Prepared:	02/25/11 13:05	Analyzed:	03/02/11 02:58
Solids:		Preparation:	EXT_3510	Dilution:	5
Batch:	1B25007	Sequence:	1C06102	Calibration:	1055002
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	8.77	0.481	0.481	0.481	D

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01923	0.01985	103	30 - 140	

LCS / LCS DUPLICATE RECOVERY

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B25007	Laboratory ID:	1B25007-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.5229	52.3	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.5805	58.1	10.5	50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B25007 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0005	1102203-01	02/25/11 13:05	1,080.00	1.00
GW0006	1102203-03	02/25/11 13:05	1,080.00	1.00
GW0007	1102203-05	02/25/11 13:05	1,040.00	1.00
Blank	1B25007-BLK1	02/25/11 13:05	1,000.00	1.00
LCS	1B25007-BS1	02/25/11 13:05	1,000.00	1.00
LCS Dup	1B25007-BSD1	02/25/11 13:05	1,000.00	1.00

INITIAL CALIBRATION STANDARDS

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05511	Instrument:	GL-GCFID2
Calibration:	1055002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10K0188	DRO ICAL6@100ppm	1B05511-CAL6	003F0301.D	02/23/11 12:03
10K0189	DRO ICAL5@250ppm	1B05511-CAL5	004F0401.D	02/23/11 12:37
10K0190	DRO ICAL4@500ppm	1B05511-CAL4	005F0501.D	02/23/11 13:10
10K0192	DRO ICAL3@1000ppm	1B05511-CAL3	006F0601.D	02/23/11 13:44
10K0193	DRO ICAL2@2500ppm	1B05511-CAL2	007F0701.D	02/23/11 14:17
10K0194	DRO ICAL1@5000ppm	1B05511-CAL1	008F0801.D	02/23/11 14:50

INITIAL CALIBRATION DATA

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1055002	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Date:	2/23/2011 12:03:48PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Diesel Range Organics (C10-C28)	100	1855.71	250	1817.04	500	1796.666	1000	1843.481	2500	2105.9	5000	1756.688
o-Terphenyl	5	2068.4	12.5	2082.56	25	2153.56	50	2195.82	125	2197.272	250	2265.896

INITIAL CALIBRATION DATA (Continued)

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1055002	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Date:	2/23/2011 12:03:48PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	1862.581	6.673355	4.54	1.997184E-02			20	
o-Terphenyl	2160.585	3.482875	8.299667	0.1498473			20	

INITIAL CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1055002
Lab File ID:	009F0901.D	Calibration Date:	02/23/11 12:03
Sequence:	1B05511	Injection Date:	02/23/11
Lab Sample ID:	1B05511-ICV1	Injection Time:	15:23

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1074	1862.581	2000.49		7.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1055002
Lab File ID:	004F0401.D	Calibration Date:	02/23/11 12:03
Sequence:	1C06012	Injection Date:	02/28/11
Lab Sample ID:	1C06012-CCV1	Injection Time:	16:48

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1036	1862.581	1929.795		3.6	20
o-Terphenyl	A	50.00	54.15	2160.585	2340.02		8.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1055002
Lab File ID:	016F1601.D	Calibration Date:	02/23/11 12:03
Sequence:	1C06012	Injection Date:	02/28/11
Lab Sample ID:	1C06012-CCV2	Injection Time:	23:28

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1406	1862.581	2619.83		40.7	20 *
o-Terphenyl	A	50.00	54.86	2160.585	2370.58		9.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1055002
Lab File ID:	053F5301.D	Calibration Date:	02/23/11 12:03
Sequence:	1C06102	Injection Date:	03/02/11
Lab Sample ID:	1C06102-CCV1	Injection Time:	01:18

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1037	1862.581	1930.799		3.7	20
o-Terphenyl	A	50.00	57.09	2160.585	2467.02		14.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1055002
Lab File ID:	057F5701.D	Calibration Date:	02/23/11 12:03
Sequence:	1C06102	Injection Date:	03/02/11
Lab Sample ID:	1C06102-CCV2	Injection Time:	03:32

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1041	1862.581	1938.655		4.1	20
o-Terphenyl	A	50.00	56.73	2160.585	2451.52		13.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C06012
Instrument: GL-GCFID2
Calibration: 1055002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C06012-CCV1) mg/L				Lab File ID: 004F0401.D		Analyzed: 02/28/11 16:48		
o-Terphenyl	50.00	108	80 - 120	8.216	8.216	0.0000	+/-0.050	
Blank (1B25007-BLK1) mg/L				Lab File ID: 010F1001.D		Analyzed: 02/28/11 20:08		
o-Terphenyl	0.02000	89.3	30 - 140	8.213	8.216	-0.0030	+/-0.050	
LCS (1B25007-BS1) mg/L				Lab File ID: 011F1101.D		Analyzed: 02/28/11 20:41		
o-Terphenyl	0.02000	81.9	30 - 140	8.206	8.216	-0.0100	+/-0.050	
LCS Dup (1B25007-BSD1) mg/L				Lab File ID: 012F1201.D		Analyzed: 02/28/11 21:14		
o-Terphenyl	0.02000	89.3	30 - 140	8.206	8.216	-0.0100	+/-0.050	
Calibration Check (1C06012-CCV2) mg/L				Lab File ID: 016F1601.D		Analyzed: 02/28/11 23:28		
o-Terphenyl	50.00	110	80 - 120	8.203	8.216	-0.0130	+/-0.050	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C06102
Instrument: GL-GCFID2
Calibration: 1055002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C06102-CCV1) mg/L				Lab File ID: 053F5301.D		Analyzed: 03/02/11 01:18		
o-Terphenyl	50.00	114	80 - 120	8.196	8.196	0.0000	+/-0.050	
GW0005 (1102203-01) mg/L				Lab File ID: 054F5401.D		Analyzed: 03/02/11 01:51		
o-Terphenyl	0.01852		30 - 140		8.196	-8.1960	+/-0.050	*
GW0006 (1102203-03) mg/L				Lab File ID: 055F5501.D		Analyzed: 03/02/11 02:25		
o-Terphenyl	0.01852		30 - 140		8.196	-8.1960	+/-0.050	*
GW0007 (1102203-05) mg/L				Lab File ID: 056F5601.D		Analyzed: 03/02/11 02:58		
o-Terphenyl	0.01923	103	30 - 140	8.236	8.196	0.0400	+/-0.050	
Calibration Check (1C06102-CCV2) mg/L				Lab File ID: 057F5701.D		Analyzed: 03/02/11 03:32		
o-Terphenyl	50.00	113	80 - 120	8.2	8.196	0.0040	+/-0.050	

HOLDING TIME SUMMARY

SW8015B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_005

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0005	02/21/11 16:14	02/22/11 08:45	02/25/11 13:05	3.83	7.00	03/02/11 01:51	4.53	40.00	
GW0006	02/21/11 16:14	02/22/11 08:45	02/25/11 13:05	3.83	7.00	03/02/11 02:25	4.56	40.00	
GW0007	02/21/11 10:36	02/22/11 08:45	02/25/11 13:05	4.06	7.00	03/02/11 02:58	4.58	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B25007-BLK1 File ID: 010F1001.D

Sampled: Prepared: Analyzed: 02/28/11 20:08

Solids: Preparation: EXT_3510 Dilution:

Batch: 1B25007 Sequence: 1C06012 Calibration: 1055002 Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.100	0.100	X, U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01786	89.3	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B25007-BS1
File ID: 011F1101.D
Sampled:
Prepared:
Analyzed: 02/28/11 20:41
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1B25007
Sequence: 1C06012
Calibration: 1055002
Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.5229	0.100	0.100	0.100	X

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01638	81.9	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B25007-BSD1
File ID: 012F1201.D
Sampled:
Prepared:
Analyzed: 02/28/11 21:14
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1B25007
Sequence: 1C06012
Calibration: 1055002
Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.5805	0.100	0.100	0.100	X

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01786	89.3	30 - 140	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_005

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** GL-GCFID2

Analyte	MDL	MRL	Units	Method
Diesel Range Organics (C10-C28)	0.100	0.100	mg/L	SW8015B

Data for SW8011 Forms

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0L34409	Instrument:	GL-ECD2
Calibration:	0344003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0L34409-CAL1	002R0101.D	12/09/10 14:14
Cal Standard	0L34409-CAL1	002F0101.D	12/09/10 14:14
Cal Standard	0L34409-CAL2	003F0101.D	12/09/10 14:35
Cal Standard	0L34409-CAL2	003R0101.D	12/09/10 14:35
Cal Standard	0L34409-CAL3	004F0101.D	12/09/10 14:56
Cal Standard	0L34409-CAL3	004R0101.D	12/09/10 14:56
Cal Standard	0L34409-CAL4	005R0101.D	12/09/10 15:17
Cal Standard	0L34409-CAL4	005F0101.D	12/09/10 15:17
Cal Standard	0L34409-CAL5	006R0101.D	12/09/10 15:38
Cal Standard	0L34409-CAL5	006F0101.D	12/09/10 15:38
Cal Standard	0L34409-CAL6	007F0101.D	12/09/10 16:00
Cal Standard	0L34409-CAL6	007R0101.D	12/09/10 16:00
Cal Standard	0L34409-CAL7	008F0101.D	12/09/10 16:21
Cal Standard	0L34409-CAL7	008R0101.D	12/09/10 16:21
Cal Standard	0L34409-CAL8	009F0101.D	12/09/10 16:42
Cal Standard	0L34409-CAL8	009R0101.D	12/09/10 16:42
Initial Cal Check	0L34409-ICV1	010R0101.D	12/09/10 17:04
Initial Cal Check	0L34409-ICV1	010F0101.D	12/09/10 17:04

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05908	Instrument:	GL-ECD2
Calibration:	0344003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B05908-CCV1	002R0101.D	02/24/11 11:20
Calibration Check	1B05908-CCV1	002F0101.D	02/24/11 11:20
LCS	1B24008-BS1	004R0101.D	02/24/11 12:02
LCS	1B24008-BS1	004F0101.D	02/24/11 12:02
LCS Dup	1B24008-BSD1	005R0101.D	02/24/11 12:24
LCS Dup	1B24008-BSD1	005F0101.D	02/24/11 12:24
Blank	1B24008-BLK1	006F0101.D	02/24/11 12:45
Calibration Check	1B05908-CCV2	020R0101.D	02/24/11 18:06
Calibration Check	1B05908-CCV2	020F0101.D	02/24/11 18:06

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B05909	Instrument:	GL-ECD2
Calibration:	0344003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B05909-CCV1	002R0101.D	02/25/11 15:00
Calibration Check	1B05909-CCV1	002F0101.D	02/25/11 15:00
GW0005	1102203-01	003R0101.D	02/25/11 15:21
GW0005	1102203-01	003F0101.D	02/25/11 15:21
GW0006	1102203-03	004R0101.D	02/25/11 15:43
GW0006	1102203-03	004F0101.D	02/25/11 15:43
GW0007	1102203-05	005R0101.D	02/25/11 16:04
GW0007	1102203-05	005F0101.D	02/25/11 16:04
Calibration Check	1B05909-CCV2	006R0101.D	02/25/11 16:25
Calibration Check	1B05909-CCV2	006F0101.D	02/25/11 16:25

ANALYSIS DATA SHEET

GW0005

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_005
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102203-01	File ID:	003F0101.D
Sampled:	02/21/11 16:14	Prepared:	02/24/11 10:43	Analyzed:	02/25/11 15:21
Solids:		Preparation:	EDB	Dilution:	200
Batch:	1B24008	Sequence:	1B05909	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	124	1.99	3.98	5.97	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0006

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_005
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102203-03	File ID:	004F0101.D
Sampled:	02/21/11 16:14	Prepared:	02/24/11 10:43	Analyzed:	02/25/11 15:43
Solids:		Preparation:	EDB	Dilution:	200
Batch:	1B24008	Sequence:	1B05909	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	111	1.93	3.86	5.79	D

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0007

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_005
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1102203-05	File ID:	005F0101.D
Sampled:	02/21/11 10:36	Prepared:	02/24/11 10:43	Analyzed:	02/25/11 16:04
Solids:		Preparation:	EDB	Dilution:	100
Batch:	1B24008	Sequence:	1B05909	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	42.4	0.995	1.99	2.98	D

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B24008	Laboratory ID:	1B24008-BS1
Preparation:	EDB	Initial/Final:	35 mL / 35 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.5177	104	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.3779	75.6	70 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.4878	97.6	5.95	20	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.5427	109	35.8 *	20	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B24008 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0005	1102203-01	02/24/11 10:43	35.17	35.00
GW0006	1102203-03	02/24/11 10:43	36.28	35.00
GW0007	1102203-05	02/24/11 10:43	35.19	35.00
Blank	1B24008-BLK1	02/24/11 10:43	35.00	35.00
LCS	1B24008-BS1	02/24/11 10:43	35.00	35.00
LCS Dup	1B24008-BSD1	02/24/11 10:43	35.00	35.00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24008-BLK1 File ID: 006F0101.D

Sampled: Prepared: 02/24/11 10:43 Analyzed: 02/24/11 12:45

Solids: Preparation: EDB Dilution:

Batch: 1B24008 Sequence: 1B05908 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.0100	0.0200	0.0300	U

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0L34409	Instrument:	GL-ECD2
Calibration:	0344003		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10L0344	EDB ICAL 1 (0.03ppb)	0L34409-CAL1	002R0101.D	12/09/10 14:14
10L0344	EDB ICAL 1 (0.03ppb)	0L34409-CAL1	002F0101.D	12/09/10 14:14
10L0345	EDB ICAL 2 (0.05ppb)	0L34409-CAL2	003F0101.D	12/09/10 14:35
10L0345	EDB ICAL 2 (0.05ppb)	0L34409-CAL2	003R0101.D	12/09/10 14:35
10L0346	EDB ICAL 3 (0.10ppb)	0L34409-CAL3	004F0101.D	12/09/10 14:56
10L0346	EDB ICAL 3 (0.10ppb)	0L34409-CAL3	004R0101.D	12/09/10 14:56
10L0347	EDB ICAL 4 (0.15ppb)	0L34409-CAL4	005R0101.D	12/09/10 15:17
10L0347	EDB ICAL 4 (0.15ppb)	0L34409-CAL4	005F0101.D	12/09/10 15:17
10L0348	EDB ICAL 5 (0.20ppb)	0L34409-CAL5	006R0101.D	12/09/10 15:38
10L0348	EDB ICAL 5 (0.20ppb)	0L34409-CAL5	006F0101.D	12/09/10 15:38
10L0349	EDB ICAL 6 (0.40ppb)	0L34409-CAL6	007F0101.D	12/09/10 16:00
10L0349	EDB ICAL 6 (0.40ppb)	0L34409-CAL6	007R0101.D	12/09/10 16:00
10L0350	EDB ICAL 7 (0.50ppb)	0L34409-CAL7	008F0101.D	12/09/10 16:21
10L0350	EDB ICAL 7 (0.50ppb)	0L34409-CAL7	008R0101.D	12/09/10 16:21
10L0351	EDB ICAL 8 (1.00ppb)	0L34409-CAL8	009R0101.D	12/09/10 16:42
10L0351	EDB ICAL 8 (1.00ppb)	0L34409-CAL8	009F0101.D	12/09/10 16:42

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 2:14:04PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	1	14540	0.5	15516	0.4	15402.5	0.2	16590	0.15	15980	0.1	~~17600~~
1,2-Dibromoethane [2C]	1	29076	0.5	33560	0.4	33402.5	0.2	38785	0.15	37866.67	0.1	~~42050~~
1,2-Dibromo-3-chloropropane	1	24442	0.5	28986	0.4	28852.5	0.2	31650	0.15	31693.33	0.1	~~45080~~
1,2-Dibromo-3-chloropropane [2C]	1	69695	0.5	78930	0.4	76647.5	0.2	85730	0.15	88033.34	0.1	~~105450~~

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0344003
Instrument: GL-ECD2
Matrix: Water
Calibration Date: 12/9/2010 2:14:04PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	0.05	23100	0.03	21300								
1,2-Dibromoethane [2C]	0.05	45260	0.03	42333.33								
1,2-Dibromo-3-chloropropane	0.05	52760	0.03	51166.67								
1,2-Dibromo-3-chloropropane [2C]	0.05	155180	0.03	148933.3								

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 2:14:04PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	17489.79	18.96825	1.543	1.749237E-02		0.9996372	CCC ()	*
1,2-Dibromoethane [2C]	37183.36	15.05167	0.583	2.248094E-02		0.9995717	CCC ()	*
1,2-Dibromo-3-chloropropane	35650.07	32.01128	6.973	2.748517E-02		0.9987968	CCC ()	*
1,2-Dibromo-3-chloropropane [2C]	100449.9	35.64558	4.139286	5.910871E-02		0.9986728	CCC ()	*

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	010F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	0L34409	Injection Date:	12/09/10
Lab Sample ID:	0L34409-ICV1	Injection Time:	17:04

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4746	17489.79	14620		-5.1	20
1,2-Dibromoethane [2C]	Q	0.5000	0.4584	37183.36	30824		-8.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	002F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B05908	Injection Date:	02/24/11
Lab Sample ID:	1B05908-CCV1	Injection Time:	11:20

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5047	17489.79	15482		0.9	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5490	37183.36	35862		9.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	020F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B05908	Injection Date:	02/24/11
Lab Sample ID:	1B05908-CCV2	Injection Time:	18:06

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.5054	17489.79	15502		1.1	20
1,2-Dibromoethane [2C]	Q	0.5000	0.4837	37183.36	32252		-3.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	002F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B05909	Injection Date:	02/25/11
Lab Sample ID:	1B05909-CCV1	Injection Time:	15:00

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4850	17489.79	14920		-3.0	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5164	37183.36	34074		3.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	006F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1B05909	Injection Date:	02/25/11
Lab Sample ID:	1B05909-CCV2	Injection Time:	16:25

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4748	17489.79	14628		-5.0	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5224	37183.36	34406		4.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

HOLDING TIME SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_005

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0005	02/21/11 16:14	02/22/11 08:45	02/24/11 10:43	2.73	14.00	02/25/11 15:21	1.19	14.00	
GW0006	02/21/11 16:14	02/22/11 08:45	02/24/11 10:43	2.73	14.00	02/25/11 15:43	1.21	14.00	
GW0007	02/21/11 10:36	02/22/11 08:45	02/24/11 10:43	2.96	14.00	02/25/11 16:04	1.22	14.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1B24008-BS1
File ID: 004F0101.D
Sampled:
Prepared:
Analyzed: 02/24/11 12:02
Solids:
Preparation: EDB
Dilution:
Batch: 1B24008
Sequence: 1B05908
Calibration: 0344003
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.5177	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24008-BS1 File ID: 004R0101.D

Sampled: Prepared: Analyzed: 02/24/11 12:02

Solids: Preparation: EDB Dilution:

Batch: 1B24008 Sequence: 1B05908 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.3779	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24008-BSD1 File ID: 005F0101.D

Sampled: Prepared: Analyzed: 02/24/11 12:24

Solids: Preparation: EDB Dilution:

Batch: 1B24008 Sequence: 1B05908 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.4878	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1B24008-BSD1 File ID: 005R0101.D

Sampled: Prepared: Analyzed: 02/24/11 12:24

Solids: Preparation: EDB Dilution:

Batch: 1B24008 Sequence: 1B05908 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.5427	0.0100	0.0200	0.0300	

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0005

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102203-01 Date(s) Analyzed: 02/25/2011 02/25/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	124	
	2	0.58	0.55	0.61	105	17

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0006

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102203-03 Date(s) Analyzed: 02/25/2011 02/25/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	111	
	2	0.58	0.55	0.61	91.1	20

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0007

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1102203-05 Date(s) Analyzed: 02/25/2011 02/25/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	42.4	
	2	0.58	0.55	0.61	35.0	19

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1B24008-BS1 Date(s) Analyzed: 02/24/2011 02/24/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.55	1.51	1.57	0.5177	
	2	0.58	0.55	0.61	0.3779	31

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1B24008-BSD1 Date(s) Analyzed: 02/24/2011 02/24/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.55	1.51	1.57	0.4878	
	2	0.58	0.55	0.61	0.5427	11

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_005

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** GL-ECD2

Analyte	MDL	MRL	Units	Method
1,2-Dibromoethane	0.0100	0.0300	ug/L	SW8011

Data for SW6010B Forms

ANALYSIS DATA SHEET

GW0005

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/21/11 16:14
% Solids: 0.00

SDG: kirtland_005
Project: Kirtland AFB 2011
Laboratory ID: 1102203-01
Received: 02/22/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	138000	1000	2000	5000	1		SW6010B	1C04002	03/07/11 19:31
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C04002	03/07/11 19:31
7439-95-4	Magnesium	21000	1000	3000	5000	1		SW6010B	1C04002	03/07/11 19:31
7440-09-7	Potassium	5270	1000	3000	5000	1		SW6010B	1C04002	03/07/11 19:31
7440-23-5	Sodium	79800	1000	3000	5000	1		SW6010B	1C04002	03/07/11 19:31

ANALYSIS DATA SHEET

GW0005

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/21/11 16:14
% Solids: 0.00

SDG: kirtland_005
Project: Kirtland AFB 2011
Laboratory ID: 1102203-02
Received: 02/22/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	725	30.0	60.0	100	1		SW6010B	1C07004	03/07/11 23:23
7439-96-5	Manganese (dissolved)	2400	3.00	6.00	15.0	1		SW6010B	1C07004	03/07/11 23:23

ANALYSIS DATA SHEET

GW0006

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/21/11 16:14
% Solids: 0.00

SDG: kirtland_005
Project: Kirtland AFB 2011
Laboratory ID: 1102203-03
Received: 02/22/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	134000	1000	2000	5000	1		SW6010B	1C04002	03/07/11 19:36
7439-92-1	Lead		2.00	3.00	3.00	1	M U	SW6010B	1C04002	03/07/11 19:36
7439-95-4	Magnesium	20200	1000	3000	5000	1		SW6010B	1C04002	03/07/11 19:36
7440-09-7	Potassium	5010	1000	3000	5000	1		SW6010B	1C04002	03/07/11 19:36
7440-23-5	Sodium	76800	1000	3000	5000	1		SW6010B	1C04002	03/07/11 19:36

ANALYSIS DATA SHEET

GW0006

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/21/11 16:14
% Solids: 0.00

SDG: kirtland_005
Project: Kirtland AFB 2011
Laboratory ID: 1102203-04
Received: 02/22/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	702	30.0	60.0	100	1		SW6010B	1C07004	03/07/11 23:28
7439-96-5	Manganese (dissolved)	2420	3.00	6.00	15.0	1		SW6010B	1C07004	03/07/11 23:28

ANALYSIS DATA SHEET

GW0007

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/21/11 10:36
% Solids: 0.00

SDG: kirtland_005
Project: Kirtland AFB 2011
Laboratory ID: 1102203-05
Received: 02/22/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	55700	1000	2000	5000	1		SW6010B	1C04002	03/07/11 19:41
7439-92-1	Lead		2.00	3.00	3.00	1	M U	SW6010B	1C04002	03/07/11 19:41
7439-95-4	Magnesium	7240	1000	3000	5000	1		SW6010B	1C04002	03/07/11 19:41
7440-09-7	Potassium	2480	1000	3000	5000	1	J	SW6010B	1C04002	03/07/11 19:41
7440-23-5	Sodium	29100	1000	3000	5000	1		SW6010B	1C04002	03/07/11 19:41

ANALYSIS DATA SHEET

GW0007

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/21/11 10:36
% Solids: 0.00

SDG: kirtland_005
Project: Kirtland AFB 2011
Laboratory ID: 1102203-06
Received: 02/22/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)	698	30.0	60.0	100	1		SW6010B	1C07004	03/07/11 23:32
7439-96-5	Manganese (dissolved)	285	3.00	6.00	15.0	1		SW6010B	1C07004	03/07/11 23:32

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: kirtland_005
Project: Kirtland AFB 2011
Calibration: 1067002
Sequence: 1C06703

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1C06703-ICV1	Calcium	50000	48570	97.1	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9746	97.5	ug/L	+/- 10.00%
	Lead	1000	993.4	99.3	ug/L	+/- 10.00%
	Magnesium	50000	46670	93.3	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1004	100	ug/L	+/- 10.00%
	Potassium	10000	9760	97.6	ug/L	+/- 10.00%
	Sodium	50000	49740	99.5	ug/L	+/- 10.00%
1C06703-CCV1	Calcium	50000	48840	97.7	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9708	97.1	ug/L	+/- 10.00%
	Lead	1000	1052	105	ug/L	+/- 10.00%
	Magnesium	50000	48230	96.5	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1044	104	ug/L	+/- 10.00%
	Potassium	10000	10040	100	ug/L	+/- 10.00%
	Sodium	50000	50340	101	ug/L	+/- 10.00%
1C06703-CCV4	Calcium	50000	51230	102	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10440	104	ug/L	+/- 10.00%
	Lead	1000	969.0	96.9	ug/L	+/- 10.00%
	Magnesium	50000	47120	94.2	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	990.2	99.0	ug/L	+/- 10.00%
	Potassium	10000	9727	97.3	ug/L	+/- 10.00%
	Sodium	50000	50920	102	ug/L	+/- 10.00%
1C06703-CCV5	Calcium	50000	53470	107	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10700	107	ug/L	+/- 10.00%
	Lead	1000	916.7	91.7	ug/L	+/- 10.00%
	Magnesium	50000	47400	94.8	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	977.0	97.7	ug/L	+/- 10.00%
	Potassium	10000	9560	95.6	ug/L	+/- 10.00%
	Sodium	50000	52300	105	ug/L	+/- 10.00%
1C06703-CCV6	Calcium	50000	53040	106	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10710	107	ug/L	+/- 10.00%
	Lead	1000	907.1	90.7	ug/L	+/- 10.00%
	Magnesium	50000	47090	94.2	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	956.1	95.6	ug/L	+/- 10.00%
	Potassium	10000	9568	95.7	ug/L	+/- 10.00%
	Sodium	50000	52740	105	ug/L	+/- 10.00%
1C06703-CCV7	Calcium	50000	51080	102	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10430	104	ug/L	+/- 10.00%
	Lead	1000	940.0	94.0	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: kirtland_005
Project: Kirtland AFB 2011
Calibration: 1067002
Sequence: 1C06703

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1C06703-CCV7	Magnesium	50000	46980	94.0	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	976.5	97.6	ug/L	+/- 10.00%
	Potassium	10000	9910	99.1	ug/L	+/- 10.00%
	Sodium	50000	53050	106	ug/L	+/- 10.00%
1C06703-CCV8	Calcium	50000	51700	103	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10470	105	ug/L	+/- 10.00%
	Lead	1000	938.1	93.8	ug/L	+/- 10.00%
	Magnesium	50000	47350	94.7	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	955.8	95.6	ug/L	+/- 10.00%
	Potassium	10000	9908	99.1	ug/L	+/- 10.00%
	Sodium	50000	53310	107	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_005

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1067002

Sequence: 1C06703

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1C06703-CRL1	Calcium	5000	4932	98.6	ug/L	80 - 120
	Iron (dissolved)	100.0	103.8	104	ug/L	80 - 120
	Lead	3.000	2.640	88.0	ug/L	80 - 120
	Magnesium	5000	4722	94.4	ug/L	80 - 120
	Manganese (dissolved)	15.00	15.88	106	ug/L	80 - 120
	Potassium	5000	4926	98.5	ug/L	80 - 120
	Sodium	5000	4992	99.8	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1C06703
Calibration: 1067002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C06703-ICB1	Calcium	23.25	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	4.567	30.0	100	ug/L	U	SW6010B
	Lead	-0.05011	1.50	3.00	ug/L	U	SW6010B
	Magnesium	13.08	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.1989	3.00	15.0	ug/L	U	SW6010B
	Potassium	10.93	1000	5000	ug/L	U	SW6010B
	Sodium	12.65	1000	5000	ug/L	U	SW6010B
1C06703-CCB1	Calcium	9.77	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.725	30.0	100	ug/L	U	SW6010B
	Lead	-0.213	1.50	3.00	ug/L	U	SW6010B
	Magnesium	4.01	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0826	3.00	15.0	ug/L	U	SW6010B
	Potassium	4.37	1000	5000	ug/L	U	SW6010B
	Sodium	-2.72	1000	5000	ug/L	U	SW6010B
1C06703-CCB4	Calcium	5.19	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	2.23	30.0	100	ug/L	U	SW6010B
	Lead	0.0529	1.50	3.00	ug/L	U	SW6010B
	Magnesium	0.390	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.170	3.00	15.0	ug/L	U	SW6010B
	Potassium	0.850	1000	5000	ug/L	U	SW6010B
	Sodium	-8.55	1000	5000	ug/L	U	SW6010B
1C04002-BLK1	Calcium	10.6	1000	5000	ug/L	U	SW6010B
	Lead	-0.587	1.50	3.00	ug/L	U	SW6010B
	Magnesium	0.770	1000	5000	ug/L	U	SW6010B
	Potassium	-3.32	1000	5000	ug/L	U	SW6010B
	Sodium	-5.97	1000	5000	ug/L	U	SW6010B
1C06703-CCB5	Calcium	6.08	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-0.886	30.0	100	ug/L	U	SW6010B
	Lead	0.966	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-1.10	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0914	3.00	15.0	ug/L	U	SW6010B
	Potassium	-12.1	1000	5000	ug/L	U	SW6010B
	Sodium	-7.04	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1C06703
Calibration: 1067002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C06703-CCB6	Calcium	2.61	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-0.642	30.0	100	ug/L	U	SW6010B
	Lead	-0.139	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-2.27	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0931	3.00	15.0	ug/L	U	SW6010B
	Potassium	-11.7	1000	5000	ug/L	U	SW6010B
	Sodium	-21.9	1000	5000	ug/L	U	SW6010B
1C07004-BLK1	Iron (dissolved)	-1.43	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.0343	3.00	15.0	ug/L	U	SW6010B
1C06703-CCB7	Calcium	2.01	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-1.03	30.0	100	ug/L	U	SW6010B
	Lead	-0.554	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-2.85	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0817	3.00	15.0	ug/L	U	SW6010B
	Potassium	-23.1	1000	5000	ug/L	U	SW6010B
	Sodium	-19.9	1000	5000	ug/L	U	SW6010B
1C06703-CCB8	Calcium	1.78	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-1.04	30.0	100	ug/L	U	SW6010B
	Lead	-0.312	1.50	3.00	ug/L	U	SW6010B
	Magnesium	-6.43	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.00280	3.00	15.0	ug/L	U	SW6010B
	Potassium	-20.2	1000	5000	ug/L	U	SW6010B
	Sodium	-18.4	1000	5000	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1067002
Sequence: 1C06703

Lab Sample ID	Analyte	True	Found	%R	Units
1C06703-IFA1	Calcium	500000	483,660.00	96.7	ug/L
	Iron (dissolved)	200000	192,940.00	96.5	ug/L
	Lead		10.82		ug/L
	Magnesium	500000	500,760.00	100	ug/L
	Manganese (dissolved)		3.96		ug/L
	Potassium		-54.97		ug/L
	Sodium		9.32		ug/L
1C06703-IFB1	Calcium	500000	450,230.00	90.0	ug/L
	Iron (dissolved)	200000	179,940.00	90.0	ug/L
	Lead	50.00	55.86	112	ug/L
	Magnesium	500000	467,170.00	93.4	ug/L
	Manganese (dissolved)	500.0	449.65	89.9	ug/L
	Potassium		-34.38		ug/L
	Sodium		35.68		ug/L
1C06703-IFB2	Calcium	500000	441,210.00	88.2	ug/L
	Iron (dissolved)	200000	175,790.00	87.9	ug/L
	Lead	50.00	54.16	108	ug/L
	Magnesium	500000	456,050.00	91.2	ug/L
	Manganese (dissolved)	500.0	437.04	87.4	ug/L
	Potassium		-23.72		ug/L
	Sodium		45.24		ug/L

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C04002	Laboratory ID:	1C04002-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Calcium	5000	5132	103	80 - 120
Lead	250.0	238.4	95.4	80 - 120
Magnesium	5000	4639	92.8	80 - 120
Potassium	5000	4774	95.5	80 - 120
Sodium	5000	5155	103	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C07004	Laboratory ID:	1C07004-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Iron (dissolved)	1000	1094	109	80 - 120
Manganese (dissolved)	500.0	489.1	97.8	80 - 120

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_005

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** ME-ICP

Analyte	MDL	MRL	Units	Method
Calcium	1000	5000	ug/L	SW6010B
Iron (dissolved)	30.0	100	ug/L	SW6010B
Lead	1.50	3.00	ug/L	SW6010B
Magnesium	1000	5000	ug/L	SW6010B
Manganese (dissolved)	3.00	15.0	ug/L	SW6010B
Potassium	1000	5000	ug/L	SW6010B
Sodium	1000	5000	ug/L	SW6010B

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_005

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_005

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		As	B	Ba	Be	Cd
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_005

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	K	Mn
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_005

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Mo	Na	Ni	Pb	Sb
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_005

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Se	Sn	Ti	Tl	V
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_005

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Calcium	317.9	0.0000000				
Iron	261.1	0.0000000				
Lead	220.3	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Potassium	766.4	0.0000000				
Sodium	330.2	0.0000000				

Comments:

FORM XA-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories, LLC

Client: Shaw E & I (I700) SDG: kirtland_005

Project: Kirtland AFB 2011

ICP Instrument ID: ME-ICP Date: 09/11/2009

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Calcium	15	500000	P
Iron	15	500000	P
Lead	15	10000	P
Magnesium	15	500000	P
Manganese	15	10000	P
Potassium	15	100000	P
Sodium	15	500000	P

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C04002 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0005	1102203-01	03/04/11 08:22	50.00	50.00
GW0006	1102203-03	03/04/11 08:22	50.00	50.00
GW0007	1102203-05	03/04/11 08:22	50.00	50.00
Blank	1C04002-BLK1	03/04/11 08:22	50.00	50.00
LCS	1C04002-BS1	03/04/11 08:22	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C07004 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0005	1102203-02	03/07/11 08:41	50.00	50.00
GW0006	1102203-04	03/07/11 08:41	50.00	50.00
GW0007	1102203-06	03/07/11 08:41	50.00	50.00
Blank	1C07004-BLK1	03/07/11 08:41	50.00	50.00
LCS	1C07004-BS1	03/07/11 08:41	50.00	50.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C06703	Instrument:	ME-ICP
Calibration:	1067002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1C06703-CAL1	030711A-001	03/07/11 12:13
Cal Standard	1C06703-CAL1	030711A-001	03/07/11 12:13
Cal Standard	1C06703-CAL2	030711A-002	03/07/11 12:17
Cal Standard	1C06703-CAL2	030711A-002	03/07/11 12:17
Cal Standard	1C06703-CAL3	030711A-003	03/07/11 12:22
Cal Standard	1C06703-CAL3	030711A-003	03/07/11 12:22
Cal Standard	1C06703-CAL4	030711A-004	03/07/11 12:27
Cal Standard	1C06703-CAL5	030711A-005	03/07/11 12:31
Cal Standard	1C06703-CAL5	030711A-005	03/07/11 12:31
Cal Standard	1C06703-CAL6	030711A-006	03/07/11 12:36
Cal Standard	1C06703-CAL6	030711A-006	03/07/11 12:36
Cal Standard	1C06703-CAL7	030711A-007	03/07/11 12:41
Cal Standard	1C06703-CAL8	030711A-008	03/07/11 12:46
Initial Cal Check	1C06703-ICV1	030711B-001	03/07/11 13:30
Initial Cal Check	1C06703-ICV1	030711B-001	03/07/11 13:30
Initial Cal Blank	1C06703-ICB1	030711B-002	03/07/11 13:38
Initial Cal Blank	1C06703-ICB1	030711B-002	03/07/11 13:38
Instrument RL Check	1C06703-CRL1	030711B-004	03/07/11 13:48
Instrument RL Check	1C06703-CRL1	030711B-004	03/07/11 13:48
Interference Check A	1C06703-IFA1	030711B-012	03/07/11 14:34
Interference Check A	1C06703-IFA1	030711B-012	03/07/11 14:34
Interference Check B	1C06703-IFB1	030711B-013	03/07/11 14:39
Interference Check B	1C06703-IFB1	030711B-013	03/07/11 14:39
Interference Check B	1C06703-IFB2	030711B-014	03/07/11 14:46
Interference Check B	1C06703-IFB2	030711B-014	03/07/11 14:46
Calibration Check	1C06703-CCV1	030711B-016	03/07/11 14:57
Calibration Check	1C06703-CCV1	030711B-016	03/07/11 14:57
Calibration Blank	1C06703-CCB1	030711B-017	03/07/11 15:04
Calibration Blank	1C06703-CCB1	030711B-017	03/07/11 15:04
Calibration Check	1C06703-CCV4	030711B-066	03/07/11 19:03
Calibration Check	1C06703-CCV4	030711B-066	03/07/11 19:03
Calibration Blank	1C06703-CCB4	030711B-067	03/07/11 19:11

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C06703
Instrument: ME-ICP
Calibration: 1067002

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Blank	1C06703-CCB4	030711B-067	03/07/11 19:11
Blank	1C04002-BLK1	030711B-068	03/07/11 19:15
LCS	1C04002-BS1	030711B-069	03/07/11 19:20
GW0005	1102203-01	030711B-071	03/07/11 19:31
GW0006	1102203-03	030711B-072	03/07/11 19:36
GW0007	1102203-05	030711B-073	03/07/11 19:41
Calibration Check	1C06703-CCV5	030711B-080	03/07/11 20:14
Calibration Check	1C06703-CCV5	030711B-080	03/07/11 20:14
Calibration Blank	1C06703-CCB5	030711B-081	03/07/11 20:21
Calibration Blank	1C06703-CCB5	030711B-081	03/07/11 20:21
Calibration Check	1C06703-CCV6	030711B-096	03/07/11 21:32
Calibration Check	1C06703-CCV6	030711B-096	03/07/11 21:32
Calibration Blank	1C06703-CCB6	030711B-097	03/07/11 21:39
Calibration Blank	1C06703-CCB6	030711B-097	03/07/11 21:39
Blank	1C07004-BLK1	030711B-098	03/07/11 21:44
LCS	1C07004-BS1	030711B-099	03/07/11 21:49
Calibration Check	1C06703-CCV7	030711B-113	03/07/11 22:57
Calibration Check	1C06703-CCV7	030711B-113	03/07/11 22:57
Calibration Blank	1C06703-CCB7	030711B-114	03/07/11 23:04
Calibration Blank	1C06703-CCB7	030711B-114	03/07/11 23:04
GW0005	1102203-02	030711B-118	03/07/11 23:23
GW0006	1102203-04	030711B-119	03/07/11 23:28
GW0007	1102203-06	030711B-120	03/07/11 23:32
Calibration Check	1C06703-CCV8	030711B-124	03/07/11 23:52
Calibration Check	1C06703-CCV8	030711B-124	03/07/11 23:52
Calibration Blank	1C06703-CCB8	030711B-125	03/07/11 23:59
Calibration Blank	1C06703-CCB8	030711B-125	03/07/11 23:59

INITIAL CALIBRATION DATA

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1067002
Instrument: ME-ICP
Matrix: Water
Calibration Date: 3/7/2011 4:25:25PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.022E-05	10000	2.0346E-05			500000	2.037E-05		
Antimony	0	0	100	0.000882	1000	9.6457E-04					10000	9.5251E-04
Arsenic	0	0	100	0.000361	1000	3.9522E-04					10000	3.8586E-04
Barium	0	0	50	0.0130856	1000	0.01283	5000	0.012281				
Beryllium	0	0	100	0.0022492	1000	0.0022273					10000	0.0021656
Boron	0	0	50	0.0000122	1000	1.255E-05					5000	1.2474E-05
Cadmium	0	0	100	0.0099652	1000	0.010262					10000	0.0095616
Calcium	0	0	1100	3.249091E-05	50000	3.196E-05					10000	
Chromium	0	0	100	0.0000273	1000	2.628E-05					10000	2.7468E-05
Cobalt	0	0	100	0.0061859	1000	0.0063307					10000	0.0063759
Copper	0	0	100	0.0000952	1000	9.024E-05					10000	9.0412E-05
Iron	0	0	5100	1.420392E-05	10000	1.3718E-05			500000	1.3303E-05	10000	
Lead	0	0	100	0.0013551	1000	0.0013717					10000	0.001369
Magnesium	0	0	5100		50000	1.3934E-06			500000	1.46474E-06	10000	
Manganese	0	0	100	0.0001912	1000	1.8229E-04	10000	0.0001789			10000	
Molybdenum	0	0	100	0.0044855	1000	0.0047489					10000	0.0046516
Nickel	0	0	100	0.0033926	1000	0.003355					10000	0.0033356
Potassium	0	0	1000	1.083E-05	10000	1.1289E-05						
Selenium	0	0	100	0.0004622	1000	4.8144E-04					10000	4.6519E-04
Silver	0	0	20	0.00005	500	4.734E-05	2000	4.889E-05				
Sodium	0	0	1000		50000	4.9396E-05						
Strontium	0	0	100	0.001684	1000	0.001647					10000	0.001615
Thallium	0	0	100	0.0009286	1000	9.2969E-04					10000	9.3393E-04
Tin	0	0	50	0.001207	1000	0.001283					5000	1.28242E-03
Titanium	0	0	100	0.0002035	1000	1.9836E-04					10000	1.9936E-04
Vanadium	0	0	100	0.0000371	1000	3.593E-05					10000	3.7022E-05
Zinc	0	0	100	0.0041166	1000	0.0043305					10000	0.004249
Aluminum	0	0	5000	2.022E-05	10000	2.0346E-05			500000	2.037E-05		
Antimony	0	0	100	0.000882	1000	9.6457E-04					10000	9.5251E-04
Arsenic	0	0	100	0.000361	1000	3.9522E-04					10000	3.8586E-04
Barium	0	0	50	0.0130856	1000	0.01283	5000	0.012281				

INITIAL CALIBRATION DATA

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1067002
Instrument: ME-ICP
Matrix: Water
Calibration Date: 3/7/2011 4:25:25PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium	0	0	100	0.0022492	1000	0.0022273					10000	0.0021656
Boron	0	0	50	0.0000122	1000	1.255E-05					5000	1.2474E-05
Cadmium	0	0	100	0.0099652	1000	0.010262					10000	0.0095616
Calcium	0	0	1100	3.249091E-05	50000	3.196E-05					10000	
Chromium	0	0	100	0.0000273	1000	2.628E-05					10000	2.7468E-05
Cobalt	0	0	100	0.0061859	1000	0.0063307					10000	0.0063759
Copper	0	0	100	0.0000952	1000	9.024E-05					10000	9.0412E-05
Iron	0	0	5100	1.420392E-05	10000	1.3718E-05			500000	1.3303E-05	10000	
Lead	0	0	100	0.0013551	1000	0.0013717					10000	0.001369
Magnesium	0	0	5100		50000	1.3934E-06			500000	1.46474E-06	10000	
Manganese	0	0	100	0.0001912	1000	1.8229E-04	10000	0.0001789			10000	
Molybdenum	0	0	100	0.0044855	1000	0.0047489					10000	0.0046516
Nickel	0	0	100	0.0033926	1000	0.003355					10000	0.0033356
Potassium	0	0	1000	1.083E-05	10000	1.1289E-05						
Selenium	0	0	100	0.0004622	1000	4.8144E-04					10000	4.6519E-04
Silver	0	0	20	0.00005	500	4.734E-05	2000	4.889E-05				
Sodium	0	0	1000		50000	4.9396E-05						
Strontium	0	0	100	0.001684	1000	0.001647					10000	0.001615
Thallium	0	0	100	0.0009286	1000	9.2969E-04					10000	9.3393E-04
Tin	0	0	50	0.001207	1000	0.001283					5000	1.28242E-03
Titanium	0	0	100	0.0002035	1000	1.9836E-04					10000	1.9936E-04
Vanadium	0	0	100	0.0000371	1000	3.593E-05					10000	3.7022E-05
Zinc	0	0	100	0.0041166	1000	0.0043305					10000	0.004249

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1067002
Instrument: ME-ICP
Matrix: Water
Calibration Date: 3/7/2011 4:25:25PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	3.1272E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.423E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.1371E-05										
Selenium												
Silver												
Sodium	100000	4.8729E-05	500000	4.7802E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1067002
Instrument: ME-ICP
Matrix: Water
Calibration Date: 3/7/2011 4:25:25PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	3.1272E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.423E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.1371E-05										
Selenium												
Silver												
Sodium	100000	4.8729E-05	500000	4.7802E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1067002	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	3/7/2011 4:25:25PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.5234E-05	66.66807	13.34029	194.6196	1		0.998	
Antimony	6.9977E-04	66.86947	6.162305	174.6212	0.9999969		0.998	
Arsenic	2.8552E-04	66.85823	99.06558	198.5183	0.9999923		0.998	
Barium	9.54915E-03	66.75928	4.124868	183.6476	0.9999181		0.998	
Beryllium	1.660525E-03	66.70074	17.11528	194.5221	0.9999927		0.998	
Boron	9.306E-06	66.68623	8.492455	184.9034	0.9999982		0.998	
Cadmium	0.0074472	66.778	1.236732	94.55227	0.9999516		0.998	
Calcium	2.393073E-05	66.69926	4.202537	171.7484	0.9999953		0.998	
Chromium	2.0262E-05	66.71699	6.200052	177.5114	0.9999813		0.998	
Cobalt	4.723125E-03	66.68874	7.92734	185.5851	0.9999995		0.998	
Copper	6.8963E-05	66.74994	1.127863	107.2084	0.9999996		0.998	
Iron	1.030623E-05	66.76231	14.12288	193.1592	0.9999996		0.998	
Lead	1.02395E-03	66.67045	53.88325	197.5111	0.9999999		0.998	
Magnesium	1.070285E-06	66.72272	51.28272	198.7644	0.9999635		0.998	
Manganese	1.380975E-04	66.7724	4.433068	172.0152	0.9999971		0.998	
Molybdenum	0.0034715	66.74022	20.74087	192.4795	0.9999948		0.998	
Nickel	0.0025208	66.67327	0.952825	64.10861	0.9999999		0.998	
Potassium	8.3725E-06	66.72728	2.083405	141.2089	0.9999999		0.998	
Selenium	3.522075E-04	66.70986	3.071523	149.3154	0.9999885		0.998	
Silver	3.65575E-05	66.73342	7.175015	178.0332	0.9999256		0.998	
Sodium	3.648175E-05	66.69074	6.159653	166.6541	0.9999834		0.998	
Strontium	0.0012365	66.70565	3.758525	165.6724	0.9999966		0.998	
Thallium	6.98055E-04	66.66748	52.18687	196.1841	0.9999998		0.998	
Tin	9.43105E-04	66.77399	4.86132	155.1418	0.9999997		0.998	
Titanium	1.50305E-04	66.6831	6.37712	183.3968	0.9999996		0.998	
Vanadium	2.7513E-05	66.69493	3.366955	163.2452	0.9999909		0.998	
Zinc	3.174025E-03	66.72448	7.15359	177.8137	0.9999957		0.998	
Aluminum	1.5234E-05	66.66807	13.34029	194.6196	1		0.998	
Antimony	6.9977E-04	66.86947	6.162305	174.6212	0.9999969		0.998	
Arsenic	2.8552E-04	66.85823	99.06558	198.5183	0.9999923		0.998	
Barium	9.54915E-03	66.75928	4.124868	183.6476	0.9999181		0.998	
Beryllium	1.660525E-03	66.70074	17.11528	194.5221	0.9999927		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1067002	Instrument:	ME-ICP
Matrix:	Water	Calibration Date:	3/7/2011 4:25:25PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	9.306E-06	66.68623	8.492455	184.9034	0.9999982		0.998	
Cadmium	0.0074472	66.778	1.236732	94.55227	0.9999516		0.998	
Calcium	2.393073E-05	66.69926	4.202537	171.7484	0.9999953		0.998	
Chromium	2.0262E-05	66.71699	6.200052	177.5114	0.9999813		0.998	
Cobalt	4.723125E-03	66.68874	7.92734	185.5851	0.9999995		0.998	
Copper	6.8963E-05	66.74994	1.127863	107.2084	0.9999996		0.998	
Iron	1.030623E-05	66.76231	14.12288	193.1592	0.9999996		0.998	
Lead	1.02395E-03	66.67045	53.88325	197.5111	0.9999999		0.998	
Magnesium	1.070285E-06	66.72272	51.28272	198.7644	0.9999635		0.998	
Manganese	1.380975E-04	66.7724	4.433068	172.0152	0.9999971		0.998	
Molybdenum	0.0034715	66.74022	20.74087	192.4795	0.9999948		0.998	
Nickel	0.0025208	66.67327	0.952825	64.10861	0.9999999		0.998	
Potassium	8.3725E-06	66.72728	2.083405	141.2089	0.9999999		0.998	
Selenium	3.522075E-04	66.70986	3.071523	149.3154	0.9999885		0.998	
Silver	3.65575E-05	66.73342	7.175015	178.0332	0.9999256		0.998	
Sodium	3.648175E-05	66.69074	6.159653	166.6541	0.9999834		0.998	
Strontium	0.0012365	66.70565	3.758525	165.6724	0.9999966		0.998	
Thallium	6.98055E-04	66.66748	52.18687	196.1841	0.9999998		0.998	
Tin	9.43105E-04	66.77399	4.86132	155.1418	0.9999997		0.998	
Titanium	1.50305E-04	66.6831	6.37712	183.3968	0.9999996		0.998	
Vanadium	2.7513E-05	66.69493	3.366955	163.2452	0.9999909		0.998	
Zinc	3.174025E-03	66.72448	7.15359	177.8137	0.9999957		0.998	

Data for Wet Chemistry Forms

ANALYSIS DATA SHEET

GW0005

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/21/11 16:14
% Solids: 0.00

SDG: kirtland_005
Project: Kirtland AFB 2011
Laboratory ID: 1102203-01
Received: 02/22/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:52
18496-25-8	Sulfide		0.678	1.69	3.39	0.68	U	SM4500S2CF	1B23014	02/23/11 14:17
10-09-3	Alkalinity, Bicarbonate (as CACO3)	187	1.00	1.00	1.00	1		SM2320B	1C02007	03/02/11 10:50
16887-00-6	Chloride	160	0.170	0.330	0.500	1		E300.0	1B22010	02/22/11 16:52
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1C02007	03/02/11 10:50
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	U	E300.0	1B22010	02/22/11 16:52
14808-79-8	Sulfate as SO4	154	0.330	1.00	2.00	1		E300.0	1B22010	02/22/11 16:52

ANALYSIS DATA SHEET

GW0006

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/21/11 16:14
% Solids: 0.00

SDG: kirtland_005
Project: Kirtland AFB 2011
Laboratory ID: 1102203-03
Received: 02/22/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:53
18496-25-8	Sulfide		0.690	1.72	3.45	0.69	U	SM4500S2CF	1B23014	02/23/11 14:18
10-09-3	Alkalinity, Bicarbonate (as CACO3)	182	1.00	1.00	1.00	1		SM2320B	1C02007	03/02/11 11:16
16887-00-6	Chloride	161	0.170	0.330	0.500	1		E300.0	1B22010	02/22/11 17:09
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1C02007	03/02/11 11:16
14797-55-8	Nitrate as N		0.0330	0.100	0.200	1	U	E300.0	1B22010	02/22/11 17:09
14808-79-8	Sulfate as SO4	154	0.330	1.00	2.00	1		E300.0	1B22010	02/22/11 17:09

ANALYSIS DATA SHEET

GW0007

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 02/21/11 10:36
% Solids: 0.00

SDG: kirtland_005
Project: Kirtland AFB 2011
Laboratory ID: 1102203-05
Received: 02/22/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1B23022	02/24/11 11:54
18496-25-8	Sulfide		0.690	1.72	3.45	0.69	U	SM4500S2CF	1B23014	02/23/11 14:18
10-09-3	Alkalinity, Bicarbonate (as CACO3)	175	1.00	1.00	1.00	1		SM2320B	1C02007	03/02/11 11:25
16887-00-6	Chloride	11.9	0.170	0.330	0.500	1		E300.0	1B22010	02/22/11 17:27
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1C02007	03/02/11 11:25
14797-55-8	Nitrate as N	0.0910	0.0330	0.100	0.200	1	J	E300.0	1B22010	02/22/11 17:27
14808-79-8	Sulfate as SO4	29.8	0.330	1.00	2.00	1		E300.0	1B22010	02/22/11 17:27

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_005
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 0J29503

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
0J29503-ICV1	Chloride	4.800	4.639	96.6	mg/L	+/- 10.00%
	Nitrate as N	3.616	3.531	97.6	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	23.53	98.0	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: kirtland_005
Project: Kirtland AFB 2011
Calibration: 1062002
Sequence: 1B05523

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B05523-ICV1	Ammonia as N	2.000	2.119	106	mg/L	+/- 10.00%
1B05523-CCV1	Ammonia as N	2.000	2.077	104	mg/L	+/- 10.00%
1B05523-CCV2	Ammonia as N	2.000	2.060	103	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_005
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1B05524

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1B05524-CCV1	Chloride	25.00	26.52	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.607	104	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.65	107	mg/L	+/- 10.00%
1B05524-CCV2	Chloride	25.00	26.53	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.585	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.15	105	mg/L	+/- 10.00%
1B05524-CCV3	Chloride	25.00	26.40	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.585	103	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.29	105	mg/L	+/- 10.00%
1B05524-CCV4	Chloride	25.00	26.50	106	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.559	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.89	108	mg/L	+/- 10.00%
1B05524-CCV5	Chloride	25.00	26.36	105	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.555	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.06	104	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 0J29503

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
0J29503-CRL2	Chloride	1.000	0.8730	87.3	mg/L	75 - 125
	Nitrate as N	0.1000	0.09500	95.0	mg/L	75 - 125
	Sulfate as SO4	1.000	1.023	102	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 1B05524

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1B05524-CRL1	Chloride	0.5000	0.4590	91.8	mg/L	75 - 125
	Nitrate as N	0.05000	0.05000	100	mg/L	75 - 125
1B05524-CRL2	Sulfate as SO4	1.000	1.118	112	mg/L	75 - 125

METHOD BLANKS

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_005

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B22010

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B22010-BLK1	Chloride	-0.121	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_005

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1B23014

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B23014-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1B23022

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B23022-BLK1	Ammonia as N	-0.0281	0.110	0.300	mg/L	U	SM4500NH3BG

METHOD BLANKS

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_005

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1C02007

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C02007-BLK1	Alkalinity, Total (as CACO3)	0.00	1.00	1.00	mg/L	U	SM2320B

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 0J29503
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
0J29503-ICB1	Chloride	0.01700	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.000	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.08000	0.330	2.00	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05523
Calibration: 1062002
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B05523-ICB1	Ammonia as N	-0.01509	0.110	0.300	mg/L	U	SM4500NH3BG
1B05523-CCB1	Ammonia as N	-0.0126	0.110	0.300	mg/L	U	SM4500NH3BG
1B05523-CCB2	Ammonia as N	-0.0102	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05524
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1B05524-CCB1	Chloride	-0.128	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1B05524-CCB2	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1B05524-CCB3	Chloride	-0.114	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1B05524-CCB4	Chloride	-0.133	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.0780	0.330	2.00	mg/L	U	E300.0
1B05524-CCB5	Chloride	0.00	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B22010	Laboratory ID:	1B22010-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.017	105	90 - 110
Nitrate as N	3.616	3.670	101	90 - 110
Sulfate as SO4	24.00	25.15	105	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B23014	Laboratory ID:	1B23014-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1267	1033	81.5	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1B23022	Laboratory ID:	1B23022-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	4.337	86.7	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C02007	Laboratory ID:	1C02007-BS1
Preparation:	pNone	Initial/Final:	5 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	1000	1072	107	80 - 120

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_005

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:**

Analyte	MDL	MRL	Units	Method
Alkalinity, Bicarbonate (as CACO3)	1.00	1.00	mg/L	SM2320B
Alkalinity, Carbonate (as CACO3)	1.00	1.00	mg/L	SM2320B
Sulfide	0.800	4.00	mg/L	SM4500S2CF

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_005

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** WC-IC

Analyte	MDL	MRL	Units	Method
Chloride	0.170	0.500	mg/L	E300.0
Nitrate as N	0.0330	0.200	mg/L	E300.0
Sulfate as SO4	0.330	2.00	mg/L	E300.0

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_005

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** WC-Lachat

Analyte	MDL	MRL	Units	Method
Ammonia as N	0.110	0.300	mg/L	SM4500NH3BG

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B22010 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0005	1102203-01	02/22/11 10:30	5.00	5.00
GW0005	1102203-01	02/22/11 10:30	5.00	5.00
GW0006	1102203-03	02/22/11 10:30	5.00	5.00
GW0006	1102203-03	02/22/11 10:30	5.00	5.00
GW0007	1102203-05	02/22/11 10:30	5.00	5.00
GW0007	1102203-05	02/22/11 10:30	5.00	5.00
Blank	1B22010-BLK1	02/22/11 10:30	5.00	5.00
LCS	1B22010-BS1	02/22/11 10:30	5.00	5.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B23014 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0005	1102203-01	02/23/11 11:16	295.00	200.00
GW0006	1102203-03	02/23/11 11:16	290.00	200.00
GW0007	1102203-05	02/23/11 11:16	290.00	200.00
Blank	1B23014-BLK1	02/23/11 11:16	250.00	200.00
LCS	1B23014-BS1	02/23/11 11:16	3.00	250.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1B23022 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0005	1102203-01	02/23/11 16:00	100.00	100.00
GW0006	1102203-03	02/23/11 16:00	100.00	100.00
GW0007	1102203-05	02/23/11 16:00	100.00	100.00
Blank	1B23022-BLK1	02/23/11 16:00	100.00	100.00
LCS	1B23022-BS1	02/23/11 16:00	100.00	100.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_005

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C02007 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0005	1102203-01	03/02/11 08:52	25.00	25.00
GW0006	1102203-03	03/02/11 08:52	25.00	25.00
GW0007	1102203-05	03/02/11 08:52	25.00	25.00
Blank	1C02007-BLK1	03/02/11 08:52	25.00	25.00
LCS	1C02007-BS1	03/02/11 08:52	5.00	25.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_005

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1C02007-BLK1	030211A-004	03/02/11 09:50
LCS	1C02007-BS1	030211A-003	03/02/11 09:57

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_005

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1B23014-BLK1	022311-003	02/23/11 14:05
LCS	1B23014-BS1	022311-002	02/23/11 14:20

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_005
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0J29503	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0J29503-CAL1	102110curve-057	10/21/10 10:28
Cal Standard	0J29503-CAL2	102110curve-058	10/21/10 10:45
Cal Standard	0J29503-CAL3	102110curve-059	10/21/10 11:02
Cal Standard	0J29503-CAL4	102110curve-060	10/21/10 11:20
Cal Standard	0J29503-CAL5	102110curve-061	10/21/10 11:37
Cal Standard	0J29503-CAL6	102110curve-062	10/21/10 11:55
Cal Standard	0J29503-CAL7	102110curve-063	10/21/10 12:12
Cal Standard	0J29503-CAL8	102110curve-064	10/21/10 12:29
Initial Cal Check	0J29503-ICV1	102110curve-065	10/21/10 12:47
Initial Cal Blank	0J29503-ICB1	102110curve-066	10/21/10 13:04
Instrument RL Check	0J29503-CRL2	102110curve-068	10/21/10 13:39

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05523
Instrument: WC-Lachat
Calibration: 1062002

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1B05523-CAL1	M_2-24-2011_11-20-31AM-00	02/24/11 11:21
Cal Standard	1B05523-CAL2	M_2-24-2011_11-20-31AM-00	02/24/11 11:22
Cal Standard	1B05523-CAL3	M_2-24-2011_11-20-31AM-00	02/24/11 11:23
Cal Standard	1B05523-CAL4	M_2-24-2011_11-20-31AM-00	02/24/11 11:24
Cal Standard	1B05523-CAL5	M_2-24-2011_11-20-31AM-00	02/24/11 11:25
Cal Standard	1B05523-CAL6	M_2-24-2011_11-20-31AM-00	02/24/11 11:26
Cal Standard	1B05523-CAL7	M_2-24-2011_11-20-31AM-00	02/24/11 11:27
Cal Standard	1B05523-CAL8	M_2-24-2011_11-20-31AM-00	02/24/11 11:28
Initial Cal Check	1B05523-ICV1	M_2-24-2011_11-20-31AM-00	02/24/11 11:29
Initial Cal Blank	1B05523-ICB1	M_2-24-2011_11-20-31AM-01	02/24/11 11:30
Blank	1B23022-BLK1	M_2-24-2011_11-20-31AM-01	02/24/11 11:31
LCS	1B23022-BS1	M_2-24-2011_11-20-31AM-01	02/24/11 11:32
Calibration Check	1B05523-CCV1	M_2-24-2011_11-20-31AM-02	02/24/11 11:44
Calibration Blank	1B05523-CCB1	M_2-24-2011_11-20-31AM-02	02/24/11 11:45
GW0005	1102203-01	M_2-24-2011_11-20-31AM-03	02/24/11 11:52
GW0006	1102203-03	M_2-24-2011_11-20-31AM-03	02/24/11 11:53
GW0007	1102203-05	M_2-24-2011_11-20-31AM-03	02/24/11 11:54
Calibration Check	1B05523-CCV2	M_2-24-2011_11-20-31AM-03	02/24/11 11:57
Calibration Blank	1B05523-CCB2	M_2-24-2011_11-20-31AM-03	02/24/11 11:58

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_005
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1B05524
Instrument: WC-IC
Calibration: 0295001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1B05524-CCV1	022111-002	02/21/11 14:11
Calibration Blank	1B05524-CCB1	022111-003	02/21/11 14:29
Instrument RL Check	1B05524-CRL1	022111-004	02/21/11 14:46
Instrument RL Check	1B05524-CRL2	022111-005	02/21/11 15:04
Calibration Check	1B05524-CCV2	022111-014	02/21/11 17:40
Calibration Blank	1B05524-CCB2	022111-015	02/21/11 17:58
Calibration Check	1B05524-CCV3	022111-025	02/22/11 09:47
Calibration Blank	1B05524-CCB3	022111-026	02/22/11 10:05
LCS	1B22010-BS1	022111-030	02/22/11 11:14
Blank	1B22010-BLK1	022111-031	02/22/11 11:32
Calibration Check	1B05524-CCV4	022111-035	02/22/11 12:41
Calibration Blank	1B05524-CCB4	022111-036	02/22/11 12:59
GW0005	1102203-01	022111-049	02/22/11 16:52
GW0006	1102203-03	022111-050	02/22/11 17:09
GW0007	1102203-05	022111-051	02/22/11 17:27
Calibration Check	1B05524-CCV5	022111-052	02/22/11 17:44
Calibration Blank	1B05524-CCB5	022111-053	02/22/11 18:01

ANALYTICAL SUMMARY DATA PACKAGE
SDG # KIRTLAND_006

PROJECT NAME: KIRTLAND AFB 2011
PROJECT LOCATION: ALBUQUERQUE, NEW MEXICO

SUBMITTAL TO:
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Original Report Date: March 30, 2011
Report Revision #: N/A
Revision Date: N/A
Total # of Pages: 313

THIS DOCUMENT MEETS DoD QSM 4.1 STANDARDS

The results relate to only the samples associated with the referenced SDG and the submitted data has been produced in accordance with laboratory procedures. The Laboratory's Technical Lab Director, Mr. Rick Davis, is responsible for the final data produced and reported. His signature is listed at the end of the Case Narrative within the Analytical Data Package. If applicable to this report package, details on report revisions and the information on subcontracted analysis are listed in the package Case Narrative. This report shall not be reproduced, except in full, without the written approval of Empirical Laboratories, LLC.

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Sample Delivery Group Case Narrative

Receipt Information
The samples were received within the preservation guidelines for the associated methods. The information associated with sample receipt and the Sample Delivery Group (SDG) are included within section 4 of this package, which also provides information on the link between the client sample ID listed on the COC and laboratory's assigned unique sample ID or WorkOrder #. The sample is tracked through the laboratory for all analysis via the assigned WorkOrder #.

All samples that were received were analyzed and none of the samples were placed on hold without analyses. There were no subcontracted analyses for this SDG.

Changes to the Revision
This is an original submittal of the final report package.

Analytical Information
All samples were prepped (where applicable) and analyzed within the standard allowed holding times, unless noted within the exceptions listed below. The laboratory analyzed all samples within the program and method guidelines. The following information is provided specific to individual methods:

Chromatographic Flags for Manual Integration:
The following letters are used to denote manual integrations on the laboratory's raw data in association with chromatographic integrations:

A: The peak was manually integrated as it was not integrated in the original chromatogram.
B: The peak was manually integrated due to resolution or coelution issues in the original chromatogram.
C: The peak was manually integrated to correct the baseline from the original chromatogram.
D: The peak was manually integrated to identify the correct peak as the wrong peak was identified in the original chromatogram.
E: The peak was manually integrated to include the entire peak as the original chromatogram only integrated part of the peak.

SW8260B:
The batch spike associated to batch 1C12006 exceeded criteria with a positive bias for Isopropylbenzene.

The method blank 1C14012-BLK1 has a positive result for Hexachlorobutadiene.

The continuing calibration verifications exceeded criteria in 1C07105 with a positive bias for Dichlorodifluoromethane and in 1C07405-CCV1 with a positive bias for 4-Methyl-2-pentanone.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8270C:
The batch spike associated to batch 1C10022 exceeded recovery criteria with a positive bias for Bis(2-chloroethoxy)methane and with a negative bias for Caprolactam.

The continuing calibration verification 1C07307-CCV1 exceeded criteria with a negative bias for 3,3'-Dichlorobenzidine, Benzaldehyde, Benzidine, and N-nitroso-di-n-propylamine and with a positive bias for 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol, and 4-Nitroaniline.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8015B GRO:
No anomalies or deviations are noted.

SW8015B DRO:
The retention time window was exceeded for the surrogate o-Terphenyl in 1C11012-BLK1 and 1103096-01. The result bias due to the retention time shift was determined to be negligible for all affected samples.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW8011 EDB:
Samples 1103074-01, 1103096-01, and -03 were analyzed outside of the method recommended holding time for EDB by SW8011 due to an instrument malfunction.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

SW6010B:
The continuing calibration verification 1C08706-CCV1 exceeded criteria with a positive bias for Iron (dissolved).

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Wet Chemistry:
Samples 1103074-01, 1103096-01, and -03 are qualified with an M for Chloride to indicate that the LOQ was raised due to interference.

No additional anomalies or deviations are noted and the proper data qualifiers have been applied.

Data Qualifiers
As applicable and where required, the following general qualifiers are associated with the sample results. Additional qualifiers will be specified within the reporting sections of the data package or within the body of the Case Narrative.

Analytical Report Terms and Qualifiers

MDL: The method detection limit (MDL) is defined as the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined from analysis of a sample containing the analyte in a given matrix. For DoD QSM 4.1 reporting purposes, this definition is also applied to the reported Detection Limit (DL).

LOD: The Limit of Detection is an estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. This definition is further clarified in the DoD QSM 4.1 revisions as the smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.

LOQ: The Limit of Quantitation is the minimum level, concentration, or quantity of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. This term is further clarified within the DoD QSM 4.1 as the lowest concentration that produces a quantitative result within specified limits of precision and bias.

*****: An exceeding quality control criteria is associated with the reported result.

B: The presence of a "B" to the right of an analytical value indicates that this compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D: When a sample (or sample extract) is rerun diluted because one of the compound concentrations exceeded the highest concentration range for the standard curve, all of the values obtained in the dilution run will be flagged with a "D".

E: The concentration for any compound found which exceeds the highest concentration level on the standard curve for that compound will be flagged with an "E". Usually the sample will be rerun at a dilution to quantitate the flagged compound.

H1: The result was analyzed outside of the EPA recommended holding time.

H2: The result was extracted outside of the EPA recommended holding time.

H3: The sample for this analyte was received outside of the EPA recommended holding time.

J: The presence of a "J" to the right of an analytical result indicates that the reported result is estimated. The mass spectral data pass the identification criteria showing that the compound is present, but the calculated result is less than the EQL. One should feel confident that the result is greater than zero and less than the EQL.

M: Indicates that the sample matrix interfered with the quantitation of the analyte. In dual column analysis the result is reported from the column with the lower concentration. In inorganics, it indicates that the parameters MDL/RL has been raised.

N: The MS/MSD accuracy and/or precision are outside criteria. The predigested spike recovery is not within control limits for the associated parameter.

P: The associated numerical value is an estimated quantity. There is greater than a 40% difference between the two GC columns for the detected concentrations. The higher of the two values is reported unless matrix interference is obvious or for HPLC analysis where the primary column is reported.

Q: The RPD and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

S: The associated internal standard failed criteria.

U: The presence of a "U" indicates that the analyte was analyzed for but was not detected or the concentration of the analyte quantitated below the DL.

X: The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y: The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Z: The parameter shows lack of confirmation/detection, which may be due to a negative bias in the ICV or CCV which exceeds the lower control limit.

LIMS Definitions / Naming Conventions:

The following are general naming conventions that are used throughout the laboratory; however, on a method by method basis, there are additional QAQC items that are named in a consistent format.

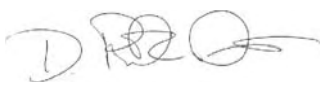
BLK: LIMS assigns a unique identifier to the Method Blank by naming it as the letters BLK appended to the Batch ID. A Method Blank is an analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The Method Blank is used to assess for possible contamination during preparation and/or analysis steps. Method Blanks within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally.

BS: LIMS assigns a unique identifier to the Blank Spike by naming it as the letters BS appended to the Batch ID. The Blank Spike or Lab Control Sample is a controlled analyte-free matrix, which is spiked with known and verified concentrations of target analytes. Spiking concentrations can be referenced in the method SOP. The BS is used to evaluate the viability of analytes taken through the entire prep (when applicable) and analytical process. Blank Spikes within a Batch or Analytical sequence will be appended with a numerical value beginning with 1 that will increase incrementally. A duplicate Blank Spike will be designated as a BSD.

MS: The LIMS assigns each Client sample with a unique identifier. The Matrix Spike is designated with a MS at the end of the sample's unique identifier. The Matrix Spike sample is used to assess the effect of the sample matrix on the precision and accuracy of the results generated using the selected method. A duplicate Matrix Spike will be designated as a MSD.

IDs: The LIMS assigns each Client sample with a unique identifier. The letter "RE" may potentially be appended to the end of the LIMS Sample ID. And "**RE"** implies that the sample was either re-prepped, re-analyzed straight, or re-analyzed at a dilution. Subsequent re-analysis for the sample will be appended with a numerical value beginning with 1 that will increase incrementally. Eg: RE1, RE2, RE3, etc.

Statement of Data Authenticity:
I certify that, based upon my inquiry of those individuals immediately responsible for obtaining the information and to the best of my knowledge, the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, with the exception of the conditions detailed in this Case Narrative, as verified by my signature below. During absences, Ms. Marcia K. McGinnity is authorized to sign this Statement of Data Authenticity.



_____
Mr. Rick D. Davis
Laboratory Technical Director / VP Operations

Sample Receipt Information

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW019
Page 1 of 2

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 08 MAR 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: ~~Kim Koetzer~~ Sonya Gordon
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872642681677

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions:

Possible Hazard Indentification:
Non-hazard X Flammable Skin Irritant Poison B Radiological Unknown

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation) Carlton Jelks SHAW Env — Date: 3/8/11 Time: 1500
2. Relinquished By (Signature/Affiliation) — Date: Time:
3. Relinquished By (Signature/Affiliation) — Date: Time:

1. Received By (Signature/Affiliation) — Date: Time:
2. Received By (Signature/Affiliation) — Date: Time:
3. Received By (Signature/Affiliation) 3.8°C — Date: 3-9-11 Time: 08:45

Comments:

1103074

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0016	KAFB10615-WG-GW0016-REG	08 MAR 2011	11:05	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		3 JHY
GW0016	KAFB10615-WG-GW0016-REG	08 MAR 2011	11:05	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		3J
GW0016	KAFB10615-WG-GW0016-REG	08 MAR 2011	11:05	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		3JHY
GW0016	KAFB10615-WG-GW0016-REG	08 MAR 2011	11:05	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		1H
GW0016	KAFB10615-WG-GW0016-REG	08 MAR 2011	11:05	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		1CNI
-02 GW0016	KAFB10615-WG-GW0016-REG	08 MAR 2011	11:05	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		1CNF

KIRTLAND_006 Summ Package
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Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW019

110307Y

Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-01 GW0016	KAFB10615-WG-GW0016-REG	08 MAR 2011	11:05	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		IC
GW0016	KAFB10615-WG-GW0016-REG	08 MAR 2011	11:05	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		ICSU
GW0016	KAFB10615-WG-GW0016-REG	08 MAR 2011	11:05	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		ICZN
-03 GW8019-TB	FIELDQC-BW-GW8019-TB-TB	08 MAR 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		2JHG

KIRTLAND_006 Summ Package

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 103074 Number of Coolers: 1 of 1

Client: Shaw E&I Project: Kirtland AFB

Date/Time Received: 3-9-11 / 08:45 Date cooler(s) opened: 3-9-11

Opened By (print): Chris Donald (signature):

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other:

If applicable, enter airbill number here: 1677

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 3-8-11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 4.1 °C Correction Factor: -0.3 °C Final Value: 3.8 °C

Dates samples were logged-in: 3-9-11

9. Initial this form to acknowledge login of sample(s): (Name): (Initial):

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	(Yes)	No	N/A
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	(Yes)	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	(N/A)
17. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
18. Was headspace present in any included VOA vials?	Yes	(No)	N/A

If Non-Conformance issues were present, list by sample ID:

- ph <2 for all metals & cyanide samples
- ph >9 for all sulfide samples

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW0020

Project Number: 140705
Project Name: Kirtland AFB
Sample Coordinator: Mark Lyon
Turnaround Time:

Samples Shipment Date: 09 MAR 2011
Lab Destination: Empirical Laboratories, Inc.
Lab Contact: Kim Kostzer
Project Contact: Pamela Moss
Carrier/Waybill No.: Fed Ex/872642681699

Bill To: Shaw Environmental, Inc. - Accounts P
PO Box 98519
Baton Rouge LA 70884

Report To: Pamela Moss
7604 Technology Way, Suite 300
Denver CO 80237

Special Instructions: LAB TO FILTER DISSOLVED METALS FRACTION IN 2819RC

Possible Hazard Indentification:
Non-hazard X Flammable Skin Irritant Poison B Unknown Radiological

Sample Disposal:
Return to Client Disposal by Lab X Archive (mos.)

1. Relinquished By (Signature/Affiliation) Date: 3/9/11 Time: 1600
2. Relinquished By (Signature/Affiliation) Date: Time:
3. Relinquished By (Signature/Affiliation) Date: Time:

1. Received By (Signature/Affiliation) Date: Time:
2. Received By (Signature/Affiliation) Date: Time:
3. Received By (Signature/Affiliation) 5.0°C Date: 3-10-11 Time: 08:45

Comments:

110396

Sample No	Sample Name	Sample Date	Sample Time	Container	Ctr Qty	Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
2819RC	2819-R-CRT-WG-2819RC-REG	09 MAR 2011	13:27	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
2819RC	2819-R-CRT-WG-2819RC-REG	09 MAR 2011	13:27	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
2819RC	2819-R-CRT-WG-2819RC-REG	09 MAR 2011	13:27	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
2819RC	2819-R-CRT-WG-2819RC-REG	09 MAR 2011	13:27	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
2819RC	2819-R-CRT-WG-2819RC-REG	09 MAR 2011	13:27	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
2819RC	2819-R-CRT-WG-2819RC-REG	09 MAR 2011	13:27	250 mL HDPE	1	Zinc Acetate and NaOH>9	Sulfide by SM4500S-2CF			N		
2819RC	2819-R-CRT-WG-2819RC-REG	09 MAR 2011	13:27	1000 mL A GLASS	2	None except cool to 4 C	SVOCs by SW846 8270C			N		
2819RC	2819-R-CRT-WG-2819RC-REG	09 MAR 2011	13:27	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		

-01

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KIRTLAND_006 Summ Package

Shaw™
Shaw E & I, Inc.

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

Reference Document No: 140705-GW0020

	Sample No	Sample Name	Sample Date	Sample Time	Container		Preservative	Requested Testing Program	Sample Vol	Units	Fil	CID	Condition On Receipt
-02	2819RC	2819-R-CRT-WG-2819RC-REG	09 MAR 2011	13:27	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-01	2819RC	2819-R-CRT-WG-2819RC-REG	09 MAR 2011	13:27	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-03	GW0018	KAFB10617-WG-GW0018-REG	09 MAR 2011	11:00	40 mL VOA VIAL	3	None except cool to 4 C	EDB by SW846 8011			N		
	GW0018	KAFB10617-WG-GW0018-REG	09 MAR 2011	11:00	40 mL VOA VIAL	3	HCl<pH 2	TPH as Gasoline by SW846 8015B			N		
	GW0018	KAFB10617-WG-GW0018-REG	09 MAR 2011	11:00	40 mL VOA VIAL	3	HCl<pH 2	VOCs by SW846 8260B			N		
	GW0018	KAFB10617-WG-GW0018-REG	09 MAR 2011	11:00	1000 mL A GLASS	2	None except cool to 4 C	TPH as Diesel by SW846 8015B			N		
	GW0018	KAFB10617-WG-GW0018-REG	09 MAR 2011	11:00	250 mL HDPE	1	HNO3<pH 2	Total Calcium, Potassium, Magnesium, Sodium, and Lead by SW846 6010C			N		
-04	GW0018	KAFB10617-WG-GW0018-REG	09 MAR 2011	11:00	250 mL HDPE	1	HNO3<pH 2	Dissolved Iron and Manganese by SW846 6010C			N		
-03	GW0018	KAFB10617-WG-GW0018-REG	09 MAR 2011	11:00	250 mL HDPE	1	None except cool to 4 C	Chloride, Nitrate, and Sulfate by EPA 300, Alkalinity by SM2320B			N		
	GW0018	KAFB10617-WG-GW0018-REG	09 MAR 2011	11:00	250 mL HDPE	1	H2SO4<pH 2	Ammonia by SM4500B,D			N		
	GW0018	KAFB10617-WG-GW0018-REG	09 MAR 2011	11:00	250 mL HDPE	1	Zinc Acetate and NaOH>	Sulfide by SM4500S-2CF			N		
-05	GW8020-TB	FIELDQC-BW-GW8020-TB-TB	09 MAR 2011	08:00	40 mL VOA VIAL	2	HCl<pH 2	VOCs by SW846 8260B			N		

KIRTLAND_006 Summ Package

CP 3-10-11

EMPIRICAL LABORATORIES
COOLER RECEIPT FORM

LIMS Number: 410356 Number of Coolers: 1 of 1

Client: Shaw Project: Kirkland AFB

Date/Time Received: 3.10.11 0845 Date cooler(s) opened: 3.10.11

Opened By (print): Reginald Talley (signature): Reginald Talley

Circle response below as appropriate

1. How did the samples arrive? (FedEx) UPS DHL Hand Delivered
EL Courier Other: _____

If applicable, enter airbill number here: 1699

2. Were custody seals on outside of cooler(s)? ..... (Yes) No

How many: 1 Seal date: 3.9.11 Seal Initials: ?

3. Were custody seals unbroken and intact at the date and time of arrival?	(Yes)	No	N/A
4. Were custody papers sealed in a plastic bag included in the sample cooler?	(Yes)	No	N/A
5. Were custody papers filled out properly (ink, signed, etc.)?	(Yes)	No	N/A
6. Did you sign custody papers in the appropriate place for acceptance?	(Yes)	No	N/A
7. Was project identifiable from custody papers?	(Yes)	No	N/A
8. If required, was enough ice present in the cooler(s)?	(Yes)	No	N/A

Type of Coolant: (WET) DRY BLUE NONE

Temperature of Samples upon Receipt: Initial Value: 3.3 °C Correction Factor: -0.3 °C Final Value: 3.0 °C

Dates samples were logged-in: 3-10-11

9. Initial this form to acknowledge login of sample(s): (Name): _____ (Initial): _____

10. Were all bottle lids intact and sealed tightly?	(Yes)	No	N/A
11. Did all bottles arrive unbroken?	Yes	(No)	N/A Sample 28/9RC had 1 (one) broken vial TPH 8y Geroline
12. Was all required bottle label information complete?	(Yes)	No	N/A
13. Did all bottle labels agree with custody papers?	(Yes)	No	N/A
14. Were correct containers used for the analyses indicated?	(Yes)	No	N/A
15. Were preservative levels correct in all applicable sample containers?	(Yes)	No	N/A
16. Was residual chlorine present in any applicable sample containers?	Yes	No	(N/A)
17. Was sufficient amount of sample sent for the analyses required?	(Yes)	No	N/A
18. Was headspace present in any included VOA vials?	Yes	(No)	N/A

If Non-Conformance issues were present, list by sample ID: _____

pH <2 for all organics & Metals

WORK ORDER

1103074

Printed: 3/30/2011 3:34:57PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Sonya Gordon
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 03/30/2011 16:00 (15 day TAT)

Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 03/09/2011 08:45
Date Logged In 03/09/2011 12:38

Samples Received at: **3.8°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

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KIRTLAND_006 Summ Package

WORK ORDER

1103074

Printed: 3/30/2011 3:34:57PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Sonya Gordon
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1103074-01 GW0016 [Water] Sampled 03/08/2011 11:05 US Mountain					
SM4500S2CF	03/25/2011 14:00	15	03/15/2011 13:05		
E300.0	03/25/2011 14:00	15	03/10/2011 13:05		NO3
E300.0	03/25/2011 14:00	15	04/05/2011 13:05		Cl & SO4
SM4500NH3BG	03/25/2011 14:00	15	04/05/2011 13:05		
SM2320B	03/25/2011 14:00	15	03/22/2011 13:05		carb/bicarb
SW8260B	03/25/2011 14:00	15	03/22/2011 13:05		
SW8015B GRO	03/25/2011 14:00	15	03/22/2011 13:05		
SW8011	03/25/2011 14:00	15	03/22/2011 13:05		
SW8015B DRO	03/25/2011 14:00	15	03/15/2011 13:05		
SW6010B	03/25/2011 14:00	15	09/04/2011 13:05		Ca, Pb, K, Na, Mg
1103074-02 GW0016 [Water] Sampled 03/08/2011 11:05 US Mountain					**Field Filtered and Preserved**
SW6010B	03/25/2011 14:00	15	09/04/2011 13:05		Fe & Mn,Field Filtered and Preserved
1103074-03 GW8019-TB [Water] Sampled 03/08/2011 08:00 Mountain					
SW8260B	03/25/2011 14:00	15	03/22/2011 09:00		

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KIRTLAND_006 Summ Package

WORK ORDER

1103096

Printed: 3/30/2011 3:34:33PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Sonya Gordon
Project Number: SHW_Kirtland

Report To:
Shaw E & I (I700)
Pamela Moss
7604 Technology Way, Suite 300
Denver, CO 80237
Phone: (720) 554-8252
Fax: (225) 932-2661

Invoice To:
Shaw E & I (I700)
Accounts Payable
PO Box 98519
Baton Rouge, LA 70884
Phone :(225) 932-2500
Fax: (225) 932-2661

Date Due: 03/31/2011 16:00 (15 day TAT)

Received By: Chris Donald
Logged In By: Chris Donald

Date Received: 03/10/2011 08:45
Date Logged In 03/10/2011 12:55

Samples Received at: **3°C**

Custody Seals	Yes	Received On Ice	Yes
Containers Intact	Yes		
COC/Labels Agree	Yes		
Preservation Confir	Yes		

Analysis	Due	TAT	Expires	Version	Comments

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KIRTLAND_006 Summ Package

WORK ORDER

1103096

Printed: 3/30/2011 3:34:33PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Sonya Gordon
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1103096-01 2819RC [Water] Sampled 03/09/2011 13:27 US Mountain					
SM4500S2CF	03/28/2011 14:00	15	03/16/2011 15:27		
SW8015B DRO	03/28/2011 14:00	15	03/16/2011 15:27		
SW8011	03/28/2011 14:00	15	03/23/2011 15:27		
SW8270C	03/28/2011 14:00	15	03/16/2011 15:27		
SW8015B GRO	03/28/2011 14:00	15	03/23/2011 15:27		
SW8260B	03/28/2011 14:00	15	03/23/2011 15:27		
SM2320B	03/28/2011 14:00	15	03/23/2011 15:27		carb/bicarb
SM4500NH3BG	03/28/2011 14:00	15	04/06/2011 15:27		
E300.0	03/28/2011 14:00	15	04/06/2011 15:27		Cl & SO4
E300.0	03/28/2011 14:00	15	03/11/2011 15:27		NO3
SW6010B	03/28/2011 14:00	15	09/05/2011 15:27		Ca, Pb, K, Na, Mg
1103096-02 2819RC [Water] Sampled 03/09/2011 13:27 US Mountain					**Field Filtered and Preserved!!!**
SW6010B	03/28/2011 14:00	15	09/05/2011 15:27		Fe & Mn Field Filtered and Preserved!!!

WORK ORDER

1103096

Printed: 3/30/2011 3:34:33PM

Empirical Laboratories, LLC

Client: Shaw E & I (I700)
Project: Kirtland AFB 2011

Project Manager: Sonya Gordon
Project Number: SHW_Kirtland

Analysis	Due	TAT	Expires	Version	Comments
1103096-03 GW0018 [Water] Sampled 03/09/2011 11:00 US Mountain					
SW8015B DRO	03/28/2011 14:00	15	03/16/2011 13:00		
SW8011	03/28/2011 14:00	15	03/23/2011 13:00		
SW8015B GRO	03/28/2011 14:00	15	03/23/2011 13:00		
SW8260B	03/28/2011 14:00	15	03/23/2011 13:00		
SM2320B	03/28/2011 14:00	15	03/23/2011 13:00		carb/bicarb
SM4500NH3BG	03/28/2011 14:00	15	04/06/2011 13:00		
E300.0	03/28/2011 14:00	15	04/06/2011 13:00		Cl & SO4
E300.0	03/28/2011 14:00	15	03/11/2011 13:00		NO3
SM4500S2CF	03/28/2011 14:00	15	03/16/2011 13:00		
SW6010B	03/28/2011 14:00	15	09/05/2011 13:00		Ca, Pb, K, Na, Mg
1103096-04 GW0018 [Water] Sampled 03/09/2011 11:00 US Mountain					**Field Filtered and Preserved!!!**
SW6010B	03/28/2011 14:00	15	09/05/2011 13:00		Fe & Mn,Field Filtered and Preserved!!!
1103096-05 GW8020-TB [Water] Sampled 03/09/2011 08:00 Mountain					
SW8260B	03/28/2011 14:00	15	03/23/2011 09:00		

KIRTLAND_006 Summ Package

Sample Delivery Group Assignment Form

CLIENT: Shaw E & I (I700)
PROJECT NAME: Kirtland AFB 2011
SDG #: kirtland_006
MATRIX: Water

QC LEVEL: Level IV
Report Due: 3/30/2011
Client Sample Count: 6

Sample Type	Sampled	Received	Lab ID	Client ID	E300.0	SM2320B	SM4500NH3BG	SM4500S2CF	SW6010B	SW8011	SW8015B DRO	SW8015B GRO	SW8260B	SW8270C
Client Sample	3/8/2011	3/9/2011	1103074-01	GW0016	X	X	X	X	X	X	X	X	X	
Client Sample	3/8/2011	3/9/2011	1103074-02	GW0016					Field Filtered and Preserved					
Trip Blank	3/8/2011	3/9/2011	1103074-03	GW8019-TB									X	
Client Sample	3/9/2011	3/10/2011	1103096-01	2819RC	X	X	X	X	X	X	X	X	X	X
Client Sample	3/9/2011	3/10/2011	1103096-02	2819RC					Field Filtered and Preserved!!!					
Client Sample	3/9/2011	3/10/2011	1103096-03	GW0018	X	X	X	X	X	X	X	X	X	
Client Sample	3/9/2011	3/10/2011	1103096-04	GW0018					Field Filtered and Preserved!!!					
Trip Blank	3/9/2011	3/10/2011	1103096-05	GW8020-TB									X	

Data for SW8260B Forms

ANALYSIS DATA SHEET

GW0016

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1103074-01 File ID: 0307401.D

Sampled: 03/08/11 11:05 Prepared: 03/11/11 00:00 Analyzed: 03/12/11 06:57

Solids: Preparation: 5030B Dilution: 1

Batch: 1C11016 Sequence: 1C07105 Calibration: 1067001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0016

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1103074-01 File ID: 0307401.D

Sampled: 03/08/11 11:05 Prepared: 03/11/11 00:00 Analyzed: 03/12/11 06:57

Solids: Preparation: 5030B Dilution: 1

Batch: 1C11016 Sequence: 1C07105 Calibration: 1067001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	32.10	107	75 - 120	
Dibromofluoromethane	30.00	30.97	103	85 - 115	
1,2-Dichloroethane-d4	30.00	30.52	102	70 - 120	
Toluene-d8	30.00	32.78	109	85 - 120	

ANALYSIS DATA SHEET

GW8019-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1103074-03 File ID: 0307403.D

Sampled: 03/08/11 08:00 Prepared: 03/11/11 00:00 Analyzed: 03/12/11 01:56

Solids: Preparation: 5030B Dilution: 1

Batch: 1C11016 Sequence: 1C07105 Calibration: 1067001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8019-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1103074-03 File ID: 0307403.D

Sampled: 03/08/11 08:00 Prepared: 03/11/11 00:00 Analyzed: 03/12/11 01:56

Solids: Preparation: 5030B Dilution: 1

Batch: 1C11016 Sequence: 1C07105 Calibration: 1067001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.12	104	75 - 120	
Dibromofluoromethane	30.00	31.91	106	85 - 115	
1,2-Dichloroethane-d4	30.00	32.78	109	70 - 120	
Toluene-d8	30.00	31.80	106	85 - 120	

ANALYSIS DATA SHEET

2819RC

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1103096-01 File ID: 0309601.D

Sampled: 03/09/11 13:27 Prepared: 03/12/11 00:00 Analyzed: 03/13/11 02:25

Solids: Preparation: 5030B Dilution: 1

Batch: 1C12006 Sequence: 1C07304 Calibration: 1067001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

2819RC

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1103096-01 File ID: 0309601.D

Sampled: 03/09/11 13:27 Prepared: 03/12/11 00:00 Analyzed: 03/13/11 02:25

Solids: Preparation: 5030B Dilution: 1

Batch: 1C12006 Sequence: 1C07304 Calibration: 1067001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	Q, U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.58	105	75 - 120	
Dibromofluoromethane	30.00	32.04	107	85 - 115	
1,2-Dichloroethane-d4	30.00	30.53	102	70 - 120	
Toluene-d8	30.00	32.01	107	85 - 120	

ANALYSIS DATA SHEET

GW0018

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1103096-03 File ID: 0309603.D

Sampled: 03/09/11 11:00 Prepared: 03/12/11 00:00 Analyzed: 03/13/11 02:55

Solids: Preparation: 5030B Dilution: 1

Batch: 1C12006 Sequence: 1C07304 Calibration: 1067001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene	0.353	0.250	0.500	1.00	J
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)	1.03	0.250	0.500	1.00	
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane	0.917	0.500	1.00	2.00	J
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW0018

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1103096-03 File ID: 0309603.D

Sampled: 03/09/11 11:00 Prepared: 03/12/11 00:00 Analyzed: 03/13/11 02:55

Solids: Preparation: 5030B Dilution: 1

Batch: 1C12006 Sequence: 1C07304 Calibration: 1067001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene	1.18	0.250	0.500	1.00	Q
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene	0.367	0.250	0.500	1.00	J
108-88-3	Toluene	2.30	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene	0.416	0.250	0.500	1.00	J
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene	1.69	0.500	1.00	2.00	J
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.75	106	75 - 120	
Dibromofluoromethane	30.00	31.56	105	85 - 115	
1,2-Dichloroethane-d4	30.00	30.61	102	70 - 120	
Toluene-d8	30.00	32.08	107	85 - 120	

ANALYSIS DATA SHEET

GW8020-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1103096-05 File ID: 0309605.D

Sampled: 03/09/11 08:00 Prepared: 03/14/11 00:00 Analyzed: 03/14/11 10:09

Solids: Preparation: 5030B Dilution: 1

Batch: 1C14012 Sequence: 1C07405 Calibration: 1069001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

GW8020-TB

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1103096-05 File ID: 0309605.D

Sampled: 03/09/11 08:00 Prepared: 03/14/11 00:00 Analyzed: 03/14/11 10:09

Solids: Preparation: 5030B Dilution: 1

Batch: 1C14012 Sequence: 1C07405 Calibration: 1069001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride	0.567	0.500	1.00	2.00	J
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.43	105	75 - 120	
Dibromofluoromethane	30.00	30.66	102	85 - 115	
1,2-Dichloroethane-d4	30.00	27.87	92.9	70 - 120	
Toluene-d8	30.00	29.12	97.1	85 - 120	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C07105
Instrument: MS-VOA5
Calibration: 1067001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C07105-CCV1) ug/L				Lab File ID: 0311CC1E.D		Analyzed: 03/11/11 21:57		
Bromofluorobenzene	30.00	95.2	80 - 120	17.657	17.657	0.0000	+/-1.000	
Dibromofluoromethane	30.00	101	80 - 120	11.213	11.213	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	103	80 - 120	12.001	12.001	0.0000	+/-1.000	
Toluene-d8	30.00	91.5	80 - 120	15.332	15.332	0.0000	+/-1.000	
LCS (1C11016-BS1) ug/L				Lab File ID: 0311LS1E.D		Analyzed: 03/11/11 22:27		
Bromofluorobenzene	30.00	102	75 - 120	17.652	17.657	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	98.5	85 - 115	11.208	11.213	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	104	70 - 120	12.006	12.001	0.0050	+/-1.000	
Toluene-d8	30.00	103	85 - 120	15.327	15.332	-0.0050	+/-1.000	
Blank (1C11016-BLK1) ug/L				Lab File ID: 0311BL1E.D		Analyzed: 03/11/11 23:55		
Bromofluorobenzene	30.00	103	75 - 120	17.649	17.657	-0.0080	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	11.205	11.213	-0.0080	+/-1.000	
1,2-Dichloroethane-d4	30.00	105	70 - 120	12.013	12.001	0.0120	+/-1.000	
Toluene-d8	30.00	108	85 - 120	15.333	15.332	0.0010	+/-1.000	
GW8019-TB (1103074-03) ug/L				Lab File ID: 0307403.D		Analyzed: 03/12/11 01:56		
Bromofluorobenzene	30.00	104	75 - 120	17.652	17.657	-0.0050	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	11.208	11.213	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	109	70 - 120	12.006	12.001	0.0050	+/-1.000	
Toluene-d8	30.00	106	85 - 120	15.327	15.332	-0.0050	+/-1.000	
GW0016 (1103074-01) ug/L				Lab File ID: 0307401.D		Analyzed: 03/12/11 06:57		
Bromofluorobenzene	30.00	107	75 - 120	17.653	17.657	-0.0040	+/-1.000	
Dibromofluoromethane	30.00	103	85 - 115	11.208	11.213	-0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	12.006	12.001	0.0050	+/-1.000	
Toluene-d8	30.00	109	85 - 120	15.327	15.332	-0.0050	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C07304
Instrument: MS-VOA5
Calibration: 1067001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C07304-CCV1) ug/L				Lab File ID: 0312CC1E.D		Analyzed: 03/12/11 22:26		
Bromofluorobenzene	30.00	98.6	80 - 120	17.652	17.652	0.0000	+/-1.000	
Dibromofluoromethane	30.00	97.0	80 - 120	11.198	11.198	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	93.3	80 - 120	11.996	11.996	0.0000	+/-1.000	
Toluene-d8	30.00	96.7	80 - 120	15.327	15.327	0.0000	+/-1.000	
LCS (1C12006-BS1) ug/L				Lab File ID: 0312LS1E.D		Analyzed: 03/12/11 22:56		
Bromofluorobenzene	30.00	103	75 - 120	17.648	17.652	-0.0040	+/-1.000	
Dibromofluoromethane	30.00	98.1	85 - 115	11.203	11.198	0.0050	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.8	70 - 120	12.001	11.996	0.0050	+/-1.000	
Toluene-d8	30.00	102	85 - 120	15.332	15.327	0.0050	+/-1.000	
Blank (1C12006-BLK1) ug/L				Lab File ID: 0312BL1E.D		Analyzed: 03/13/11 00:24		
Bromofluorobenzene	30.00	106	75 - 120	17.653	17.652	0.0010	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	11.208	11.198	0.0100	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	12.006	11.996	0.0100	+/-1.000	
Toluene-d8	30.00	107	85 - 120	15.327	15.327	0.0000	+/-1.000	
2819RC (1103096-01) ug/L				Lab File ID: 0309601.D		Analyzed: 03/13/11 02:25		
Bromofluorobenzene	30.00	105	75 - 120	17.648	17.652	-0.0040	+/-1.000	
Dibromofluoromethane	30.00	107	85 - 115	11.204	11.198	0.0060	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	12.002	11.996	0.0060	+/-1.000	
Toluene-d8	30.00	107	85 - 120	15.322	15.327	-0.0050	+/-1.000	
GW0018 (1103096-03) ug/L				Lab File ID: 0309603.D		Analyzed: 03/13/11 02:55		
Bromofluorobenzene	30.00	106	75 - 120	17.652	17.652	0.0000	+/-1.000	
Dibromofluoromethane	30.00	105	85 - 115	11.198	11.198	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	70 - 120	12.006	11.996	0.0100	+/-1.000	
Toluene-d8	30.00	107	85 - 120	15.327	15.327	0.0000	+/-1.000	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C07405
Instrument: MS-VOA4
Calibration: 1069001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C07405-CCV1) ug/L				Lab File ID: 0314CCV1.D		Analyzed: 03/14/11 07:29		
Bromofluorobenzene	30.00	98.3	80 - 120	16.45	16.45	0.0000	+/-1.000	
Dibromofluoromethane	30.00	105	80 - 120	8.827	8.827	0.0000	+/-1.000	
1,2-Dichloroethane-d4	30.00	102	80 - 120	10.07	10.07	0.0000	+/-1.000	
Toluene-d8	30.00	95.5	80 - 120	14.123	14.123	0.0000	+/-1.000	
LCS (1C14012-BS1) ug/L				Lab File ID: 0314LS1.D		Analyzed: 03/14/11 08:11		
Bromofluorobenzene	30.00	99.5	75 - 120	16.452	16.45	0.0020	+/-1.000	
Dibromofluoromethane	30.00	101	85 - 115	8.839	8.827	0.0120	+/-1.000	
1,2-Dichloroethane-d4	30.00	96.2	70 - 120	10.072	10.07	0.0020	+/-1.000	
Toluene-d8	30.00	102	85 - 120	14.125	14.123	0.0020	+/-1.000	
Blank (1C14012-BLK1) ug/L				Lab File ID: 0314BL1.D		Analyzed: 03/14/11 09:39		
Bromofluorobenzene	30.00	103	75 - 120	16.452	16.45	0.0020	+/-1.000	
Dibromofluoromethane	30.00	106	85 - 115	8.849	8.827	0.0220	+/-1.000	
1,2-Dichloroethane-d4	30.00	99.5	70 - 120	10.091	10.07	0.0210	+/-1.000	
Toluene-d8	30.00	101	85 - 120	14.124	14.123	0.0010	+/-1.000	
GW8020-TB (1103096-05) ug/L				Lab File ID: 0309605.D		Analyzed: 03/14/11 10:09		
Bromofluorobenzene	30.00	105	75 - 120	16.458	16.45	0.0080	+/-1.000	
Dibromofluoromethane	30.00	102	85 - 115	8.904	8.827	0.0770	+/-1.000	
1,2-Dichloroethane-d4	30.00	92.9	70 - 120	10.127	10.07	0.0570	+/-1.000	
Toluene-d8	30.00	97.1	85 - 120	14.141	14.123	0.0180	+/-1.000	

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1C11016
Laboratory ID: 1C11016-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	96.0	96.0	40 - 140
Benzene	50.00	57.3	115	80 - 120
Bromobenzene	50.00	52.6	105	75 - 125
Bromochloromethane	50.00	55.1	110	65 - 130
Bromodichloromethane	50.00	55.8	112	75 - 120
Bromoform	50.00	54.4	109	70 - 130
Bromomethane	50.00	52.1	104	30 - 145
n-Butylbenzene	50.00	56.2	112	70 - 135
2-Butanone	100.0	90.5	90.5	30 - 150
sec-Butylbenzene	50.00	55.8	112	70 - 125
tert-Butylbenzene	50.00	53.0	106	70 - 130
Carbon disulfide	50.00	58.9	118	35 - 160
Carbon tetrachloride	50.00	53.6	107	65 - 140
Chlorobenzene	50.00	52.6	105	80 - 120
Chloroethane	50.00	57.4	115	60 - 135
Chloroform	50.00	52.3	105	65 - 135
Chloromethane	50.00	59.9	120	40 - 125
2-Chlorotoluene	50.00	53.1	106	75 - 125
4-Chlorotoluene	50.00	56.6	113	75 - 130
Dibromochloromethane	50.00	56.5	113	60 - 135
1,2-Dibromo-3-chloropropane	50.00	46.3	92.7	50 - 130
1,2-Dibromoethane (EDB)	50.00	54.1	108	80 - 120
Dibromomethane	50.00	54.1	108	75 - 125
1,2-Dichlorobenzene	50.00	53.9	108	70 - 120
1,3-Dichlorobenzene	50.00	50.2	100	75 - 125
1,4-Dichlorobenzene	50.00	50.3	101	75 - 125
Dichlorodifluoromethane	50.00	67.7	135	30 - 155
1,1-Dichloroethane	50.00	56.0	112	70 - 135
1,2-Dichloroethane	50.00	51.9	104	70 - 130
1,1-Dichloroethene	50.00	60.1	120	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1C11016
Laboratory ID: 1C11016-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	57.7	115	70 - 125
trans-1,2-Dichloroethene	50.00	56.6	113	60 - 140
1,2-Dichloropropane	50.00	50.0	100	75 - 125
1,3-Dichloropropane	50.00	52.4	105	75 - 125
2,2-Dichloropropane	50.00	51.1	102	70 - 135
1,1-Dichloropropene	50.00	56.9	114	75 - 130
cis-1,3-Dichloropropene	50.00	52.2	104	70 - 130
trans-1,3-Dichloropropene	50.00	59.7	119	55 - 140
Ethylbenzene	50.00	56.9	114	75 - 125
Hexachlorobutadiene	50.00	49.0	98.0	50 - 140
2-Hexanone	100.0	97.7	97.7	55 - 130
Isopropylbenzene	50.00	60.3	121	75 - 125
p-Isopropyltoluene	50.00	55.2	110	75 - 130
Methylene chloride	50.00	56.1	112	55 - 140
Naphthalene	50.00	46.8	93.6	55 - 140
4-Methyl-2-pentanone	100.0	102	102	60 - 135
Methyl t-Butyl Ether	50.00	53.4	107	65 - 125
n-Propylbenzene	50.00	56.7	113	70 - 130
Styrene	50.00	57.2	114	65 - 135
1,1,2,2-Tetrachloroethane	50.00	51.2	102	65 - 130
1,1,1,2-Tetrachloroethane	50.00	54.5	109	80 - 130
Tetrachloroethene	50.00	55.3	111	45 - 150
Toluene	50.00	54.7	109	75 - 120
1,2,3-Trichlorobenzene	50.00	51.5	103	55 - 140
1,2,4-Trichlorobenzene	50.00	51.7	103	65 - 135
1,1,2-Trichloroethane	50.00	52.7	105	75 - 125
1,1,1-Trichloroethane	50.00	52.9	106	65 - 130
Trichloroethene	50.00	54.0	108	70 - 125
Trichlorofluoromethane	50.00	53.0	106	60 - 145
1,2,3-Trichloropropane	50.00	52.4	105	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C11016	Laboratory ID:	1C11016-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	55.6	111	75 - 130
1,2,4-Trimethylbenzene	50.00	56.5	113	75 - 130
Vinyl chloride	50.00	53.2	106	50 - 145
m,p-Xylene	100.0	112	112	75 - 130
o-Xylene	50.00	56.6	113	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1C12006
Laboratory ID: 1C12006-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	92.2	92.2	40 - 140
Benzene	50.00	57.2	114	80 - 120
Bromobenzene	50.00	54.0	108	75 - 125
Bromochloromethane	50.00	56.1	112	65 - 130
Bromodichloromethane	50.00	55.4	111	75 - 120
Bromoform	50.00	54.7	109	70 - 130
Bromomethane	50.00	55.0	110	30 - 145
n-Butylbenzene	50.00	57.2	114	70 - 135
2-Butanone	100.0	84.4	84.4	30 - 150
sec-Butylbenzene	50.00	57.1	114	70 - 125
tert-Butylbenzene	50.00	52.1	104	70 - 130
Carbon disulfide	50.00	59.4	119	35 - 160
Carbon tetrachloride	50.00	53.0	106	65 - 140
Chlorobenzene	50.00	53.0	106	80 - 120
Chloroethane	50.00	58.3	117	60 - 135
Chloroform	50.00	50.8	102	65 - 135
Chloromethane	50.00	61.2	122	40 - 125
2-Chlorotoluene	50.00	56.0	112	75 - 125
4-Chlorotoluene	50.00	56.7	113	75 - 130
Dibromochloromethane	50.00	57.6	115	60 - 135
1,2-Dibromo-3-chloropropane	50.00	47.6	95.1	50 - 130
1,2-Dibromoethane (EDB)	50.00	54.9	110	80 - 120
Dibromomethane	50.00	54.1	108	75 - 125
1,2-Dichlorobenzene	50.00	55.4	111	70 - 120
1,3-Dichlorobenzene	50.00	51.0	102	75 - 125
1,4-Dichlorobenzene	50.00	52.2	104	75 - 125
Dichlorodifluoromethane	50.00	65.3	131	30 - 155
1,1-Dichloroethane	50.00	54.0	108	70 - 135
1,2-Dichloroethane	50.00	51.6	103	70 - 130
1,1-Dichloroethene	50.00	63.5	127	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1C12006
Laboratory ID: 1C12006-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	55.8	112	70 - 125
trans-1,2-Dichloroethene	50.00	56.2	112	60 - 140
1,2-Dichloropropane	50.00	51.8	104	75 - 125
1,3-Dichloropropane	50.00	53.7	107	75 - 125
2,2-Dichloropropane	50.00	47.7	95.3	70 - 135
1,1-Dichloropropene	50.00	59.5	119	75 - 130
cis-1,3-Dichloropropene	50.00	53.3	107	70 - 130
trans-1,3-Dichloropropene	50.00	59.2	118	55 - 140
Ethylbenzene	50.00	57.2	114	75 - 125
Hexachlorobutadiene	50.00	51.7	103	50 - 140
2-Hexanone	100.0	91.4	91.4	55 - 130
Isopropylbenzene	**50.00**	**63.3**	**127**	**75 - 125**
p-Isopropyltoluene	50.00	57.7	115	75 - 130
Methylene chloride	50.00	51.3	103	55 - 140
Naphthalene	50.00	47.6	95.2	55 - 140
4-Methyl-2-pentanone	100.0	96.6	96.6	60 - 135
Methyl t-Butyl Ether	50.00	54.6	109	65 - 125
n-Propylbenzene	50.00	57.6	115	70 - 130
Styrene	50.00	56.5	113	65 - 135
1,1,2,2-Tetrachloroethane	50.00	51.7	103	65 - 130
1,1,1,2-Tetrachloroethane	50.00	53.1	106	80 - 130
Tetrachloroethene	50.00	55.6	111	45 - 150
Toluene	50.00	55.5	111	75 - 120
1,2,3-Trichlorobenzene	50.00	53.4	107	55 - 140
1,2,4-Trichlorobenzene	50.00	55.1	110	65 - 135
1,1,2-Trichloroethane	50.00	54.0	108	75 - 125
1,1,1-Trichloroethane	50.00	51.7	103	65 - 130
Trichloroethene	50.00	54.3	109	70 - 125
Trichlorofluoromethane	50.00	52.4	105	60 - 145
1,2,3-Trichloropropane	50.00	53.7	107	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C12006	Laboratory ID:	1C12006-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	57.0	114	75 - 130
1,2,4-Trimethylbenzene	50.00	58.1	116	75 - 130
Vinyl chloride	50.00	54.1	108	50 - 145
m,p-Xylene	100.0	113	113	75 - 130
o-Xylene	50.00	56.5	113	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1C14012
Laboratory ID: 1C14012-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Acetone	100.0	101	101	40 - 140
Benzene	50.00	48.2	96.5	80 - 120
Bromobenzene	50.00	50.6	101	75 - 125
Bromochloromethane	50.00	53.4	107	65 - 130
Bromodichloromethane	50.00	52.9	106	75 - 120
Bromoform	50.00	51.6	103	70 - 130
Bromomethane	50.00	37.7	75.4	30 - 145
n-Butylbenzene	50.00	48.3	96.5	70 - 135
2-Butanone	100.0	94.6	94.6	30 - 150
sec-Butylbenzene	50.00	48.8	97.7	70 - 125
tert-Butylbenzene	50.00	48.5	97.0	70 - 130
Carbon disulfide	50.00	49.9	99.7	35 - 160
Carbon tetrachloride	50.00	49.6	99.2	65 - 140
Chlorobenzene	50.00	49.3	98.6	80 - 120
Chloroethane	50.00	53.1	106	60 - 135
Chloroform	50.00	50.3	101	65 - 135
Chloromethane	50.00	44.8	89.7	40 - 125
2-Chlorotoluene	50.00	46.8	93.7	75 - 125
4-Chlorotoluene	50.00	48.0	96.1	75 - 130
Dibromochloromethane	50.00	54.1	108	60 - 135
1,2-Dibromo-3-chloropropane	50.00	46.9	93.7	50 - 130
1,2-Dibromoethane (EDB)	50.00	53.0	106	80 - 120
Dibromomethane	50.00	50.3	101	75 - 125
1,2-Dichlorobenzene	50.00	49.3	98.5	70 - 120
1,3-Dichlorobenzene	50.00	49.8	99.6	75 - 125
1,4-Dichlorobenzene	50.00	48.4	96.7	75 - 125
Dichlorodifluoromethane	50.00	53.3	107	30 - 155
1,1-Dichloroethane	50.00	51.6	103	70 - 135
1,2-Dichloroethane	50.00	51.3	103	70 - 130
1,1-Dichloroethene	50.00	51.5	103	70 - 130

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1C14012
Laboratory ID: 1C14012-BS1
Preparation: 5030B
Initial/Final: 5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
cis-1,2-Dichloroethene	50.00	50.1	100	70 - 125
trans-1,2-Dichloroethene	50.00	51.7	103	60 - 140
1,2-Dichloropropane	50.00	50.4	101	75 - 125
1,3-Dichloropropane	50.00	47.8	95.5	75 - 125
2,2-Dichloropropane	50.00	50.4	101	70 - 135
1,1-Dichloropropene	50.00	48.9	97.7	75 - 130
cis-1,3-Dichloropropene	50.00	49.1	98.1	70 - 130
trans-1,3-Dichloropropene	50.00	59.1	118	55 - 140
Ethylbenzene	50.00	50.4	101	75 - 125
Hexachlorobutadiene	50.00	45.2	90.4	50 - 140
2-Hexanone	100.0	108	108	55 - 130
Isopropylbenzene	50.00	51.3	103	75 - 125
p-Isopropyltoluene	50.00	48.0	96.0	75 - 130
Methylene chloride	50.00	55.7	111	55 - 140
Naphthalene	50.00	46.4	92.7	55 - 140
4-Methyl-2-pentanone	100.0	116	116	60 - 135
Methyl t-Butyl Ether	50.00	52.1	104	65 - 125
n-Propylbenzene	50.00	49.6	99.2	70 - 130
Styrene	50.00	51.7	103	65 - 135
1,1,2,2-Tetrachloroethane	50.00	48.0	96.1	65 - 130
1,1,1,2-Tetrachloroethane	50.00	50.9	102	80 - 130
Tetrachloroethene	50.00	48.1	96.2	45 - 150
Toluene	50.00	50.8	102	75 - 120
1,2,3-Trichlorobenzene	50.00	43.5	86.9	55 - 140
1,2,4-Trichlorobenzene	50.00	46.2	92.4	65 - 135
1,1,2-Trichloroethane	50.00	49.6	99.2	75 - 125
1,1,1-Trichloroethane	50.00	49.9	99.8	65 - 130
Trichloroethene	50.00	47.5	95.0	70 - 125
Trichlorofluoromethane	50.00	48.6	97.2	60 - 145
1,2,3-Trichloropropane	50.00	49.9	99.9	75 - 125

LCS / LCS DUPLICATE RECOVERY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C14012	Laboratory ID:	1C14012-BS1
Preparation:	5030B	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,3,5-Trimethylbenzene	50.00	51.3	103	75 - 130
1,2,4-Trimethylbenzene	50.00	51.4	103	75 - 130
Vinyl chloride	50.00	46.2	92.4	50 - 145
m,p-Xylene	100.0	102	102	75 - 130
o-Xylene	50.00	49.9	99.8	80 - 120

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C11016 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0016	1103074-01	03/11/11 00:00	5.00	5.00
GW8019-TB	1103074-03	03/11/11 00:00	5.00	5.00
Blank	1C11016-BLK1	03/11/11 14:51	5.00	5.00
LCS	1C11016-BS1	03/11/11 14:51	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C12006 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
2819RC	1103096-01	03/12/11 00:00	5.00	5.00
GW0018	1103096-03	03/12/11 00:00	5.00	5.00
Blank	1C12006-BLK1	03/12/11 00:00	5.00	5.00
LCS	1C12006-BS1	03/12/11 00:00	5.00	5.00

PREPARATION BATCH SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C14012 Batch Matrix: Water Preparation: 5030B

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW8020-TB	1103096-05	03/14/11 00:00	5.00	5.00
Blank	1C14012-BLK1	03/14/11 00:00	5.00	5.00
LCS	1C14012-BS1	03/14/11 00:00	5.00	5.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0307TU1.D	Injection Date:	03/07/11
Instrument ID:	MS-VOA5	Injection Time:	12:22
Sequence:	1C06704	Lab Sample ID:	1C06704-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	29.7	PASS
75	30 - 60% of 95	59.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.36	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	73.4	PASS
175	5 - 9% of 174	8.34	PASS
176	95 - 101% of 174	99.3	PASS
177	5 - 9% of 176	6.54	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0309TU1.D	Injection Date:	03/09/11
Instrument ID:	MS-VOA4	Injection Time:	09:17
Sequence:	1C06802	Lab Sample ID:	1C06802-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.9	PASS
75	30 - 60% of 95	45.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.27	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	101	PASS
175	5 - 9% of 174	7.62	PASS
176	95 - 101% of 174	97.5	PASS
177	5 - 9% of 176	6.57	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0311TU1E.D	Injection Date:	03/11/11
Instrument ID:	MS-VOA5	Injection Time:	21:27
Sequence:	1C07105	Lab Sample ID:	1C07105-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	30.9	PASS
75	30 - 60% of 95	59.4	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.11	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	61.5	PASS
175	5 - 9% of 174	7.62	PASS
176	95 - 101% of 174	101	PASS
177	5 - 9% of 176	5.94	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0312TU1E.D	Injection Date:	03/12/11
Instrument ID:	MS-VOA5	Injection Time:	21:56
Sequence:	1C07304	Lab Sample ID:	1C07304-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	29	PASS
75	30 - 60% of 95	59.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.18	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	67.7	PASS
175	5 - 9% of 174	8.18	PASS
176	95 - 101% of 174	98.3	PASS
177	5 - 9% of 176	7.58	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	0314TU1.D	Injection Date:	03/14/11
Instrument ID:	MS-VOA4	Injection Time:	07:00
Sequence:	1C07405	Lab Sample ID:	1C07405-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15 - 40% of 95	18.8	PASS
75	30 - 60% of 95	47.3	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	7.05	PASS
173	Less than 2% of 174	0	PASS
174	50 - 200% of 95	102	PASS
175	5 - 9% of 174	7.97	PASS
176	95 - 101% of 174	99.6	PASS
177	5 - 9% of 176	6.5	PASS

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C06704
Instrument: MS-VOA5
Calibration: 1067001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C06704-TUN1	0307TU1.D	03/07/11 12:22
Cal Standard	1C06704-CAL1	0307CAL1.D	03/07/11 12:53
Cal Standard	1C06704-CAL2	0307CAL2.D	03/07/11 13:23
Cal Standard	1C06704-CAL3	0307CAL3.D	03/07/11 13:53
Cal Standard	1C06704-CAL4	0307CAL4.D	03/07/11 14:23
Cal Standard	1C06704-CAL5	0307CAL5.D	03/07/11 14:54
Cal Standard	1C06704-CAL6	0307CAL6.D	03/07/11 15:24
Cal Standard	1C06704-CAL7	0307CAL7.D	03/07/11 15:54
Cal Standard	1C06704-CAL8	0307CAL8.D	03/07/11 16:24
Cal Standard	1C06704-CAL9	0307CAL9.D	03/07/11 16:54
Initial Cal Check	1C06704-ICV1	0307ICV1.D	03/07/11 17:25
Initial Cal Check	1C06704-ICV2	0307ICV2.D	03/07/11 17:55
Cal Standard	1C06704-CALA	0307CALA.D	03/07/11 18:25
Cal Standard	1C06704-CALB	0307CALB.D	03/07/11 18:55
Cal Standard	1C06704-CALC	0307CALC.D	03/07/11 19:26
Cal Standard	1C06704-CALD	0307CALD.D	03/07/11 19:56
Cal Standard	1C06704-CALE	0307CALE.D	03/07/11 20:26
Cal Standard	1C06704-CALF	0307CALF.D	03/07/11 20:56
Cal Standard	1C06704-CALG	0307CALG.D	03/07/11 21:26
Cal Standard	1C06704-CALH	0307CALH.D	03/07/11 21:56
Cal Standard	1C06704-CALI	0307CALI.D	03/07/11 22:27
Initial Cal Check	1C06704-ICV3	0307ICV3.D	03/07/11 22:57

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C06802
Instrument: MS-VOA4
Calibration: 1069001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C06802-TUN1	0309TU1.D	03/09/11 09:17
Cal Standard	1C06802-CAL1	0309CAL1.D	03/09/11 09:58
Cal Standard	1C06802-CAL2	0309CAL2.D	03/09/11 10:28
Cal Standard	1C06802-CAL3	0309CAL3.D	03/09/11 10:58
Cal Standard	1C06802-CAL4	0309CAL4.D	03/09/11 11:28
Cal Standard	1C06802-CAL5	0309CAL5.D	03/09/11 11:58
Cal Standard	1C06802-CAL6	0309CAL6.D	03/09/11 12:27
Cal Standard	1C06802-CAL7	0309CAL7.D	03/09/11 12:57
Cal Standard	1C06802-CAL8	0309CAL8.D	03/09/11 13:27
Cal Standard	1C06802-CAL9	0309CAL9.D	03/09/11 13:56
Initial Cal Check	1C06802-ICV1	0309ICV1.D	03/09/11 14:26
Cal Standard	1C06802-CALA	0309CALA.D	03/09/11 15:26
Cal Standard	1C06802-CALB	0309CALB.D	03/09/11 15:55
Cal Standard	1C06802-CALC	0309CALC.D	03/09/11 16:25
Cal Standard	1C06802-CALD	0309CALD.D	03/09/11 16:55
Cal Standard	1C06802-CALE	0309CALE.D	03/09/11 17:24
Cal Standard	1C06802-CALF	0309CALF.D	03/09/11 17:54
Cal Standard	1C06802-CALG	0309CALG.D	03/09/11 18:24
Cal Standard	1C06802-CALH	0309CALH.D	03/09/11 18:54
Cal Standard	1C06802-CALI	0309CALI.D	03/09/11 19:23
Initial Cal Check	1C06802-ICV3	0309ICV3.D	03/09/11 19:53

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C07105	Instrument:	MS-VOA5
Calibration:	1067001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C07105-TUN1	0311TU1E.D	03/11/11 21:27
Calibration Check	1C07105-CCV1	0311CC1E.D	03/11/11 21:57
LCS	1C11016-BS1	0311LS1E.D	03/11/11 22:27
Blank	1C11016-BLK1	0311BL1E.D	03/11/11 23:55
GW8019-TB	1103074-03	0307403.D	03/12/11 01:56
GW0016	1103074-01	0307401.D	03/12/11 06:57

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C07304	Instrument:	MS-VOA5
Calibration:	1067001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C07304-TUN1	0312TU1E.D	03/12/11 21:56
Calibration Check	1C07304-CCV1	0312CC1E.D	03/12/11 22:26
LCS	1C12006-BS1	0312LS1E.D	03/12/11 22:56
Blank	1C12006-BLK1	0312BL1E.D	03/13/11 00:24
2819RC	1103096-01	0309601.D	03/13/11 02:25
GW0018	1103096-03	0309603.D	03/13/11 02:55

ANALYSIS SEQUENCE SUMMARY

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C07405	Instrument:	MS-VOA4
Calibration:	1069001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C07405-TUN1	0314TU1.D	03/14/11 07:00
Calibration Check	1C07405-CCV1	0314CCV1.D	03/14/11 07:29
LCS	1C14012-BS1	0314LS1.D	03/14/11 08:11
Blank	1C14012-BLK1	0314BL1.D	03/14/11 09:39
GW8020-TB	1103096-05	0309605.D	03/14/11 10:09

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C07105
Instrument: MS-VOA5
Calibration: 1067001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1C07105-CCV1)			Lab File ID: 0311CC1E.D			Analyzed: 03/11/11 21:57			
Fluorobenzene	1130662	13.194	1596090	13.194	71	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	709312	16.672	980337	16.673	72	50 - 200	-0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	592970	18.702	719237	18.702	82	50 - 200	0.0000	+/-0.50	
LCS (1C11016-BS1)			Lab File ID: 0311LS1E.D			Analyzed: 03/11/11 22:27			
Fluorobenzene	1233346	13.198	1130662	13.194	109	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	665808	16.667	709312	16.672	94	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	596885	18.697	592970	18.702	101	50 - 200	-0.0050	+/-0.50	
Blank (1C11016-BLK1)			Lab File ID: 0311BL1E.D			Analyzed: 03/11/11 23:55			
Fluorobenzene	1025586	13.195	1130662	13.194	91	50 - 200	0.0010	+/-0.50	
Chlorobenzene-d5	508327	16.673	709312	16.672	72	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	453635	18.703	592970	18.702	77	50 - 200	0.0010	+/-0.50	
GW8019-TB (1103074-03)			Lab File ID: 0307403.D			Analyzed: 03/12/11 01:56			
Fluorobenzene	946151	13.198	1130662	13.194	84	50 - 200	0.0040	+/-0.50	
Chlorobenzene-d5	491349	16.667	709312	16.672	69	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	413942	18.697	592970	18.702	70	50 - 200	-0.0050	+/-0.50	
GW0016 (1103074-01)			Lab File ID: 0307401.D			Analyzed: 03/12/11 06:57			
Fluorobenzene	925347	13.199	1130662	13.194	82	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	459788	16.667	709312	16.672	65	50 - 200	-0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	412294	18.697	592970	18.702	70	50 - 200	-0.0050	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C07304
Instrument: MS-VOA5
Calibration: 1067001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1C07304-CCV1)			Lab File ID: 0312CC1E.D			Analyzed: 03/12/11 22:26			
Fluorobenzene	1208591	13.189	1596090	13.194	76	50 - 200	-0.0050	+/-0.50	
Chlorobenzene-d5	703241	16.667	980337	16.673	72	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	615021	18.697	719237	18.702	86	50 - 200	-0.0050	+/-0.50	
LCS (1C12006-BS1)			Lab File ID: 0312LS1E.D			Analyzed: 03/12/11 22:56			
Fluorobenzene	1259167	13.194	1208591	13.189	104	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	676336	16.672	703241	16.667	96	50 - 200	0.0050	+/-0.50	
1,4-Dichlorobenzene-d4	593781	18.702	615021	18.697	97	50 - 200	0.0050	+/-0.50	
Blank (1C12006-BLK1)			Lab File ID: 0312BL1E.D			Analyzed: 03/13/11 00:24			
Fluorobenzene	1001354	13.189	1208591	13.189	83	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	511794	16.667	703241	16.667	73	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	448740	18.697	615021	18.697	73	50 - 200	0.0000	+/-0.50	
2819RC (1103096-01)			Lab File ID: 0309601.D			Analyzed: 03/13/11 02:25			
Fluorobenzene	912072	13.194	1208591	13.189	75	50 - 200	0.0050	+/-0.50	
Chlorobenzene-d5	479506	16.663	703241	16.667	68	50 - 200	-0.0040	+/-0.50	
1,4-Dichlorobenzene-d4	397453	18.692	615021	18.697	65	50 - 200	-0.0050	+/-0.50	
GW0018 (1103096-03)			Lab File ID: 0309603.D			Analyzed: 03/13/11 02:55			
Fluorobenzene	939519	13.189	1208591	13.189	78	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5	482976	16.667	703241	16.667	69	50 - 200	0.0000	+/-0.50	
1,4-Dichlorobenzene-d4	429247	18.697	615021	18.697	70	50 - 200	0.0000	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY
SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C07405
Instrument: MS-VOA4
Calibration: 1069001

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1C07405-CCV1)			Lab File ID: 0314CCV1.D			Analyzed: 03/14/11 07:29			
Fluorobenzene	885305	11.746	1046866	11.776	85	50 - 200	-0.0300	+/-0.50	
Chlorobenzene-d5	428463	15.494	467183	15.504	92	50 - 200	-0.0100	+/-0.50	
1,4-Dichlorobenzene-d4	461215	17.387	508954	17.397	91	50 - 200	-0.0100	+/-0.50	
LCS (1C14012-BS1)			Lab File ID: 0314LS1.D			Analyzed: 03/14/11 08:11			
Fluorobenzene	1074079	11.758	885305	11.746	121	50 - 200	0.0120	+/-0.50	
Chlorobenzene-d5	439055	15.496	428463	15.494	102	50 - 200	0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	499907	17.389	461215	17.387	108	50 - 200	0.0020	+/-0.50	
Blank (1C14012-BLK1)			Lab File ID: 0314BL1.D			Analyzed: 03/14/11 09:39			
Fluorobenzene	911569	11.758	885305	11.746	103	50 - 200	0.0120	+/-0.50	
Chlorobenzene-d5	388180	15.495	428463	15.494	91	50 - 200	0.0010	+/-0.50	
1,4-Dichlorobenzene-d4	454193	17.388	461215	17.387	98	50 - 200	0.0010	+/-0.50	
GW8020-TB (1103096-05)			Lab File ID: 0309605.D			Analyzed: 03/14/11 10:09			
Fluorobenzene	903402	11.784	885305	11.746	102	50 - 200	0.0380	+/-0.50	
Chlorobenzene-d5	380871	15.492	428463	15.494	89	50 - 200	-0.0020	+/-0.50	
1,4-Dichlorobenzene-d4	450732	17.385	461215	17.387	98	50 - 200	-0.0020	+/-0.50	

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1067001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 3/7/11 12:53 3/7/11 22:27

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein	2.501	4.202849E-02	5.002	4.912805E-02	10	4.589774E-02	25.01	3.251549E-02	50.02	3.552824E-02	250.1	4.184221E-02
Acrylonitrile	2.499	5.545187E-02	4.998	7.451654E-02	9.996	7.106185E-02	24.99	0.0682373	49.98	6.828281E-02	249.9	8.161908E-02
Benzene	0.5	0.6530367	1	0.7225063	2	0.7201156	5	0.6816376	10	0.6954858	50	0.7910287
Bromobenzene	0.5	0.549701	1	0.5653215	2	0.6257115	5	0.5303183	10	0.5647184	50	0.6361531
Bromochloromethane	0.5	0.1057606	1	0.123257	2	0.1190287	5	0.127271	10	0.1148693	50	0.1302114
Tert-Amyl Methyl Ether	0.5	~~1.598608~~	1	1.090158	2	0.8260847	5	0.6332337	10	0.6008392	50	0.6896912
Bromodichloromethane	0.5	0.3473567	1	0.3738296	2	0.4274612	5	0.3744141	10	0.3729374	50	0.4197135
Bromoform	0.5	0.3395406	1	0.3933789	2	0.3827047	5	0.3585994	10	0.3668502	50	0.4494797
Bromomethane	0.5	~~0.3339126~~	1	0.2608612	2	0.2028232	5	0.1894378	10	0.188385	50	0.2209556
Bromofluorobenzene	30	0.9035898	30	0.916913	30	0.9272521	30	0.9355531	30	0.926567	30	0.9133723
n-Butylbenzene	0.5	1.255296	1	1.157849	2	1.426318	5	1.157857	10	1.335827	50	1.584764
2-Butanone												
sec-Butylbenzene	0.5	1.605971	1	1.719527	2	1.893229	5	1.688532	10	1.794192	50	2.06856
tert-Butylbenzene	0.5	1.605971	1	1.7606	2	1.746774	5	1.451504	10	1.473921	50	1.700813
Carbon disulfide	0.5	0.567741	1	0.6859015	2	0.6154258	5	0.5634893	10	0.5461005	50	0.6585375
Carbon tetrachloride	0.5	0.3372985	1	0.3758977	2	0.3952787	5	0.3632524	10	0.3650022	50	0.4153075
Chlorobenzene	0.5	1.111501	1	1.209113	2	1.239253	5	1.061227	10	1.066952	50	1.15929
Chloroethane	0.5	0.1642675	1	0.1587503	2	0.1476798	5	0.1392525	10	0.148308	50	0.1668889
Chloroform	0.5	0.5017652	1	0.5564144	2	0.5459435	5	0.4611848	10	0.4613822	50	0.5231686
2-Chloroethyl vinyl ether	0.9975	~~5.363679E-02~~	1.995	6.752328E-02	3.99	9.076441E-02	9.975	8.626115E-02	19.95	0.1022495	99.75	0.1326303
Chloromethane	0.5	0.2942773	1	0.3005165	2	0.2887365	5	0.2728978	10	0.2720284	50	0.3033957
1-Chlorohexane	0.501	1.097594	1.002	1.012136	2.004	0.936332	5.01	0.9217559	10.02	1.025372	50.1	1.12813
2-Chlorotoluene	0.5	1.515349	1	1.397997	2	1.557541	5	1.439761	10	1.452007	50	1.635309
4-Chlorotoluene	0.5	1.318388	1	1.484549	2	1.638874	5	1.516016	10	1.543591	50	1.8314
Cyclohexane	0.5	0.2206333	1	0.2140453	2	0.2586329	5	0.2414361	10	0.2639292	50	0.3142955
Dibromochloromethane	0.5	0.5052372	1	0.4633048	2	0.5005268	5	0.5110683	10	0.5275074	50	0.6261449
1,2-Dibromo-3-chloropropane	0.5	6.332115E-02	1	8.807993E-02	2	0.1177169	5	0.088725	10	9.884858E-02	50	0.1336266
1,2-Dibromoethane (EDB)	0.5	0.4013586	1	0.4685921	2	0.4812981	5	0.4381936	10	0.4371352	50	0.506655
Dibromomethane	0.5	0.1451469	1	0.1779058	2	0.2140704	5	0.1780449	10	0.1786761	50	0.2089759
1,2-Dichlorobenzene	0.5	0.8423319	1	0.9380307	2	1.049278	5	0.8604472	10	0.9217492	50	1.049516

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1067001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 3/7/11 12:53 3/7/11 22:27

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	0.5	1.112479	1	1.115307	2	1.098572	5	0.956071	10	0.9729225	50	1.103796
1,4-Dichlorobenzene	0.5	1.158593	1	1.099266	2	1.332311	5	1.080485	10	1.135327	50	1.20675
Dichlorodifluoromethane	0.5	~~0.2031559~~	1	0.2851352	2	0.2817137	5	0.2668703	10	0.3308495	50	0.3489188
1,1-Dichloroethane	0.5	0.3854983	1	0.423334	2	0.4313391	5	0.3971104	10	0.3918833	50	0.4451532
1,2-Dichloroethane	0.5	0.453416	1	0.5343377	2	0.5080707	5	0.474543	10	0.4663805	50	0.5333544
1,1-Dichloroethene	0.5	0.1841349	1	0.1548726	2	0.1580342	5	0.1573192	10	0.1602801	50	0.1915411
cis-1,2-Dichloroethene	0.5	0.1785083	1	0.2166562	2	0.2079804	5	0.2065796	10	0.2021081	50	0.2421654
trans-1,2-Dichloroethene	0.5	0.1889151	1	0.2033947	2	0.2079271	5	0.1753228	10	0.1818072	50	0.2186191
1,2-Dichloroethene (total)	1	0.1837117	2	0.2100255	4	0.2079537	10	0.1909512	20	0.1919577	100	0.2303923
1,2-Dichloropropane	0.5	0.168948	1	0.1879359	2	0.2268768	5	0.18732	10	0.2047549	50	0.2315456
1,3-Dichloropropane	0.5	0.6575926	1	0.6980674	2	0.8082657	5	0.7240533	10	0.6862058	50	0.7566693
2,2-Dichloropropane	0.5	0.3354064	1	0.3836529	2	0.3996096	5	0.3878091	10	0.3668844	50	0.4171759
1,1-Dichloropropene	0.5	0.2865593	1	0.2785174	2	0.2981447	5	0.268573	10	0.2936362	50	0.3550121
cis-1,3-Dichloropropene	0.5	~~0.2853145~~	1	0.3528387	2	0.3737703	5	0.3385224	10	0.3390344	50	0.4267643
trans-1,3-Dichloropropene	0.5	0.4846652	1	0.5558829	2	0.5735961	5	0.552392	10	0.6471858	50	0.7812347
Diisopropyl Ether	0.5		1	0.5630839	2	0.6222887	5	0.5963593	10	0.6386277	50	0.8195299
Ethylbenzene	0.5	1.513777	1	1.764011	2	1.821805	5	1.720226	10	1.783079	50	2.025284
Ethyl tert-Butyl Ether	0.5	~~0.4837401~~	1	0.533252	2	0.5360156	5	0.5875992	10	0.6570009	50	0.77559
Ethyl Methacrylate	0.5	~~0.3472806~~	1	0.3283255	2	0.4147087	5	0.4343821	10	0.4829659	50	0.6092486
Hexachlorobutadiene	0.5	~~0.1803276~~	1	0.3610161	2	0.3366699	5	0.2756972	10	0.2860133	50	0.317731
2-Hexanone												
Iodomethane	0.5	0.2073883	1	0.2101418	2	0.269427	5	0.2611686	10	0.2970676	50	0.3910659
Isopropylbenzene	0.5	~~1.044897~~	1	1.245864	2	1.4504	5	1.370257	10	1.398715	50	1.667963
p-Isopropyltoluene	0.5	0.8871844	1	1.160669	2	1.272723	5	1.045097	10	1.229134	50	1.400642
Methylene chloride	0.5	0.244534	1	0.2535455	2	0.2563674	5	0.2239895	10	0.2033621	50	0.2542167
Methyl Acetate	0.5		1	0.2345451	2	0.216629	5	0.1838885	10	0.1831722	50	0.2121993
Methylcyclohexane	0.5	0.1914047	1	0.2351396	2	0.2372178	5	0.2240788	10	0.2424172	50	0.286189
Naphthalene	0.5	~~0.8169805~~	1	0.81305	2	0.8881872	5	0.9747024	10	1.113737	50	1.41024
Methyl Methacrylate	0.5	~~0.1152213~~	1	0.1414302	2	0.1646306	5	0.1650072	10	0.1929139	50	0.2643784
4-Methyl-2-pentanone												
Methyl t-Butyl Ether	0.5	~~0.3712574~~	1	0.5175347	2	0.5668921	5	0.5123423	10	0.5433326	50	0.6560853

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1067001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 3/7/11 12:53 3/7/11 22:27

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	1.916612	1	1.97225	2	2.410713	5	2.088476	10	2.223762	50	2.522939
Styrene	0.5	0.6770443	1	0.7968657	2	0.9376251	5	0.9650893	10	1.043912	50	1.211562
1,1,2,2-Tetrachloroethane	0.5	0.5384592	1	0.6360675	2	0.7431904	5	0.5442387	10	0.6085618	50	0.6675579
1,1,1,2-Tetrachloroethane	0.5	0.45452	1	0.4771968	2	0.5059003	5	0.434704	10	0.4626439	50	0.4937243
tert-Butyl alcohol	2.5	1.783589E-02	5	2.238686E-02	10	2.320073E-02	25	2.129539E-02	50	2.269986E-02	250	2.659937E-02
Tetrachloroethene	0.5	0.4222361	1	0.4719095	2	0.4799547	5	0.4068502	10	0.4320685	50	0.4867327
Toluene	0.5	0.8970227	1	0.8561654	2	0.9635708	5	0.8794404	10	0.8702731	50	0.9729754
1,2,3-Trichlorobenzene	0.5	0.4409538	1	0.4929891	2	0.4516201	5	0.4558933	10	0.4719025	50	0.5739709
1,2,4-Trichlorobenzene	0.5	~~0.4700907~~	1	0.5186668	2	0.5691586	5	0.4730288	10	0.5158334	50	0.6525275
1,1,2-Trichloroethane	0.5	0.2867865	1	0.3314874	2	0.3915552	5	0.3359903	10	0.3425208	50	0.3653537
1,1,1-Trichloroethane	0.5	0.3788758	1	0.4498053	2	0.4136953	5	0.3982298	10	0.4053592	50	0.4596763
Tetrahydrofuran	0.5		1		2	3.503431E-02	5	4.005893E-02	10	4.094744E-02	50	5.213498E-02
Trichloroethene	0.5	0.2230233	1	0.2314171	2	0.2368847	5	0.2277363	10	0.2250709	50	0.2626272
Trichlorofluoromethane	0.5	0.5036573	1	0.5102705	2	0.5224896	5	0.4893201	10	0.45786	50	0.512485
1,2,3-Trichloropropane	0.5	0.1740476	1	0.1758257	2	0.1744547	5	0.1433401	10	0.1569296	50	0.1778812
1,3,5-Trimethylbenzene	0.5	1.38515	1	1.394001	2	1.590086	5	1.488164	10	1.517112	50	1.732998
1,2,4-Trimethylbenzene	0.5	1.319305	1	1.417153	2	1.589194	5	1.454183	10	1.605423	50	1.792477
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.24309	1	0.2724683	2	0.2760501	5	0.2216615	10	0.2130937	50	0.2434672
Vinyl chloride	0.5	0.2372642	1	0.3159495	2	0.2648295	5	0.2373792	10	0.2787096	50	0.3091784
m,p-Xylene	1	1.203261	2	1.345518	4	1.519229	10	1.462656	20	1.42931	100	1.589696
o-Xylene	0.5	1.27231	1	1.368351	2	1.604257	5	1.495059	10	1.554475	50	1.717049
Vinyl acetate	0.9995		1.999		3.998	0.1791523	9.995	0.1819274	19.99	0.2249437	99.95	0.3163395
Xylenes (total)	1.5	1.226277	3	1.353129	6	1.547571	15	1.473457	30	1.471032	150	1.632147
Dibromofluoromethane	30	0.3786509	30	0.3666698	30	0.3759558	30	0.3876514	30	0.3742611	30	0.3606527
1,2-Dichloroethane-d4	30	6.259907E-02	30	0.0644428	30	6.392617E-02	30	6.754349E-02	30	6.373191E-02	30	6.613726E-02
Toluene-d8	30	1.85125	30	1.860767	30	1.802541	30	1.901503	30	1.791272	30	1.762464
tert-Amyl alcohol	2.5		5		10	8.339471E-03	25	8.548847E-03	50	9.289561E-03	250	1.321119E-02
tert-Amyl ethyl ether	0.5	~~0.3347591~~	1	0.4084956	2	0.4769143	5	0.462283	10	0.4859446	50	0.6251876

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1067001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 3/7/11 12:53 3/7/11 22:27

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone							1	0.1431275	2	0.1201874	4	0.1116767
Acrolein	500.2	4.537999E-02	750.3	4.671631E-02	1000	4.647195E-02						
Acrylonitrile	499.8	8.020876E-02	749.7	8.652166E-02	999.6	8.833622E-02						
Benzene	100	0.7898222	150	0.7975283	200	0.8063745						
Bromobenzene	100	0.6187025	150	0.6222701	200	0.6471744						
Bromochloromethane	100	0.1294359	150	0.1325201	200	0.1344625						
Tert-Amyl Methyl Ether	100	0.6948232	150	0.6950278	200	0.6956089						
Bromodichloromethane	100	0.4247198	150	0.4042228	200	0.3963135						
Bromoform	100	0.4154828	150	0.4102603	200	0.3871125						
Bromomethane	100	0.2492772	150	0.2501447	200	0.2481988						
Bromofluorobenzene	30	0.827316	30	0.7857562	30	0.7293665						
n-Butylbenzene	100	1.514347	150	1.485248	200	1.486304						
2-Butanone							1	~~0.0522765~~	2		4	8.768141E-02
sec-Butylbenzene	100	1.977237	150	1.94332	200	1.912932						
tert-Butylbenzene	100	1.637947	150	1.616132	200	1.587975						
Carbon disulfide	100	0.670935	150	0.6913621	200	0.7122962						
Carbon tetrachloride	100	0.4094476	150	0.3886809	200	0.3728976						
Chlorobenzene	100	1.03645	150	1.013713	200	0.9655527						
Chloroethane	100	0.1746583	150	0.1771378	200	0.1705083						
Chloroform	100	0.5251731	150	0.5097682	200	0.491487						
2-Chloroethyl vinyl ether	199.5	0.1412735	299.2	0.1437648	399	0.1429149						
Chloromethane	100	0.3297665	150	0.3154371	200	0.3056923						
1-Chlorohexane	100.2	1.026593	150.3	0.9894423	200.4	0.9174486						
2-Chlorotoluene	100	1.608016	150	1.519558	200	1.582697						
4-Chlorotoluene	100	1.719894	150	1.625306	200	1.61196						
Cyclohexane	100	0.3215786	150	0.332662	200	0.331074						
Dibromochloromethane	100	0.5619766	150	0.5509758	200	0.500646						
1,2-Dibromo-3-chloropropane	100	0.1349941	150	0.1374441	200	0.1449123						
1,2-Dibromoethane (EDB)	100	0.4667893	150	0.4505717	200	0.4302985						
Dibromomethane	100	0.2059913	150	0.2000632	200	0.197689						
1,2-Dichlorobenzene	100	1.031498	150	1.016431	200	1.025431						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1067001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 3/7/11 12:53 3/7/11 22:27

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	100	1.108741	150	1.130816	200	1.128786						
1,4-Dichlorobenzene	100	1.134239	150	1.118917	200	1.115377						
Dichlorodifluoromethane	100	0.3528407	150	0.3374166	200	0.2987596						
1,1-Dichloroethane	100	0.4745472	150	0.4731673	200	0.4769946						
1,2-Dichloroethane	100	0.5198466	150	0.5000919	200	0.4722982						
1,1-Dichloroethene	100	0.193752	150	0.1997432	200	0.2021713						
cis-1,2-Dichloroethene	100	0.2478902	150	0.248514	200	0.2531567						
trans-1,2-Dichloroethene	100	0.222446	150	0.2329343	200	0.2379576						
1,2-Dichloroethene (total)	200	0.2351681	300	0.2407241	400	0.2455572						
1,2-Dichloropropane	100	0.2367122	150	0.2358734	200	0.2448404						
1,3-Dichloropropane	100	0.6937736	150	0.6752095	200	0.6407095						
2,2-Dichloropropane	100	0.4166805	150	0.3912986	200	0.3899277						
1,1-Dichloropropene	100	0.3616764	150	0.3541348	200	0.3561577						
cis-1,3-Dichloropropene	100	0.4507281	150	0.4365991	200	0.4359176						
trans-1,3-Dichloropropene	100	0.7237757	150	0.7100555	200	0.6640482						
Diisopropyl Ether	100	0.8578372	150	0.898002	200	0.9225843						
Ethylbenzene	100	1.819871	150	1.71527	200	1.537014						
Ethyl tert-Butyl Ether	100	0.7863011	150	0.7939053	200	0.8125347						
Ethyl Methacrylate	100	0.5617983	150	0.5650667	200	0.5395296						
Hexachlorobutadiene	100	0.3289285	150	0.3234147	200	0.3372599						
2-Hexanone							1	~~0.1667778~~	2	0.228641	4	0.2309704
Iodomethane	100	0.4042131	150	0.4078242	200	0.4056416						
Isopropylbenzene	100	1.531807	150	1.427509	200	1.304044						
p-Isopropyltoluene	100	1.393249	150	1.365565	200	1.374954						
Methylene chloride	100	0.241731	150	0.2603899	200	0.2635829						
Methyl Acetate	100	0.2061918	150	0.2117359	200	0.2189216						
Methylcyclohexane	100	0.2844625	150	0.2852673	200	0.2853803						
Naphthalene	100	1.448814	150	1.409495	200	1.471859						
Methyl Methacrylate	100	0.2787233	150	0.272668	200	0.2706149						
4-Methyl-2-pentanone							1	~~0.1341344~~	2	0.1671968	4	0.1689515
Methyl t-Butyl Ether	100	0.6704206	150	0.6770861	200	0.698072						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1067001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 3/7/11 12:53 3/7/11 22:27

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	100	2.427719	150	2.308449	200	2.263217						
Styrene	100	1.140643	150	1.106706	200	1.030568						
1,1,2,2-Tetrachloroethane	100	0.6422802	150	0.6337047	200	0.6704276						
1,1,1,2-Tetrachloroethane	100	0.4536148	150	0.44524	200	0.4120404						
tert-Butyl alcohol	500	2.620594E-02	750	2.767036E-02	1000	2.705806E-02						
Tetrachloroethene	100	0.4505317	150	0.4445511	200	0.429221						
Toluene	100	0.900945	150	0.9079673	200	0.8388243						
1,2,3-Trichlorobenzene	100	0.5977418	150	0.6131081	200	0.6371271						
1,2,4-Trichlorobenzene	100	0.6614652	150	0.6722719	200	0.716866						
1,1,2-Trichloroethane	100	0.337697	150	0.3297807	200	0.3079286						
1,1,1-Trichloroethane	100	0.4583118	150	0.4384645	200	0.4238679						
Tetrahydrofuran	100	5.828799E-02	150	6.028031E-02	200	6.453969E-02						
Trichloroethene	100	0.2636736	150	0.2625535	200	0.2516278						
Trichlorofluoromethane	100	0.5165365	150	0.4953456	200	0.4562709						
1,2,3-Trichloropropane	100	0.1575376	150	0.1524221	200	0.1404905						
1,3,5-Trimethylbenzene	100	1.708823	150	1.649211	200	1.664883						
1,2,4-Trimethylbenzene	100	1.737568	150	1.686073	200	1.686561						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2473752	150	0.2455076	200	0.2358224						
Vinyl chloride	100	0.3415413	150	0.3362422	200	0.3317518						
m,p-Xylene	200	1.39088	300	1.283565	400	1.071972						
o-Xylene	100	1.555729	150	1.421142	200	1.29972						
Vinyl acetate	199.9	0.3335789	299.8	0.3433023	399.8	0.3564856						
Xylenes (total)	300	1.44583	450	1.329424	600	1.147888						
Dibromofluoromethane	30	0.3597037	30	0.3442957	30	0.3464109						
1,2-Dichloroethane-d4	30	6.417215E-02	30	0.0610847	30	6.114567E-02						
Toluene-d8	30	1.600829	30	1.570495	30	1.524528						
tert-Amyl alcohol	500	0.0139922	750	1.536187E-02	1000	1.609601E-02						
tert-Amyl ethyl ether	100	0.6394152	150	0.6326191	200	0.6363716						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1067001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 3/7/11 12:53 3/7/11 22:27

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	10	9.352065E-02	20	9.497545E-02	100	0.1066636	200	0.1100737	300	0.1170354	400	0.1136172
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone	10	8.835038E-02	20	9.172132E-02	100	0.1132218	200	0.1202748	300	0.1313781	400	0.1274656
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1067001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 3/7/11 12:53 3/7/11 22:27

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone	10	0.2690583	20	0.2987038	100	0.3664425	200	0.3628855	300	0.3858055	400	0.3696612
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone	10	0.1814383	20	0.206531	100	0.2515162	200	0.2584315	300	0.2747321	400	0.2707657
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1067001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 3/7/11 12:53 3/7/11 22:27

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1067001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 3/7/11 12:53 3/7/11 22:27

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	0.1123197	13.07969	6.253444	0.1344833			15	
Acrolein	4.283427E-02	12.92661	6.061	9.119184E-02			15	
Acrylonitrile	7.491512E-02	13.92187	7.023556	3.951867E-02			15	
Benzene	0.7397262	7.773478	12.87444	3.353187E-02			15	
Bromobenzene	0.5955635	7.19635	17.832	2.354569E-02			15	
Bromochloromethane	0.1240907	7.549579	10.87744	7.156777E-02			15	
Tert-Amyl Methyl Ether	0.7406833	20.99942	13.17687	5.183132E-02	0.9999422		0.995	
Bromodichloromethane	0.393441	7.099247	13.80056	3.837247E-02			15	
Bromoform	0.3892677	8.488088	17.10711	1.904145E-02			SPCC (0.1)	
Bromomethane	0.2262604	13.09668	5.114	0.1004568			15	
Bromofluorobenzene	0.8739651	8.537636	17.64911	2.220032E-02			15	
n-Butylbenzene	1.378201	11.49175	19.04511	1.294924E-02			15	
2-Butanone	0.1085848	17.49357	10.21571	0.1578657	0.9983401		0.995	
sec-Butylbenzene	1.844833	8.220999	18.57544	1.160729E-02			15	
tert-Butylbenzene	1.620182	6.678325	18.70456	1.990774E-02			15	
Carbon disulfide	0.6346432	9.888999	7.626889	8.141692E-02			15	
Carbon tetrachloride	0.3803403	6.452072	12.83711	3.700651E-02			15	
Chlorobenzene	1.095895	8.347509	16.69756	2.251491E-02			SPCC (0.3)	
Chloroethane	0.1608279	8.222487	5.294667	9.353293E-02			15	
Chloroform	0.5084763	6.591332	10.98578	4.276434E-02			CCC (20)	
2-Chloroethyl vinyl ether	0.1134227	26.69582	14.347	3.374881E-02	0.9997447		0.995	
Chloromethane	0.2980831	6.289672	4.365	0.188516			SPCC (0.1)	
1-Chlorohexane	1.006089	7.388732	16.64067	2.133492E-02			15	
2-Chlorotoluene	1.523137	5.306562	18.04867	2.098941E-02			15	
4-Chlorotoluene	1.587775	9.227864	18.10889	1.213713E-02			15	
Cyclohexane	0.2775874	17.23492	12.74089	2.177786E-02	0.9997448		0.995	
Dibromochloromethane	0.5274875	8.94386	15.70911	2.530325E-02			15	
1,2-Dibromo-3-chloropropane	0.1119632	25.2941	19.43156	3.067344E-02	0.9986619		0.995	
1,2-Dibromoethane (EDB)	0.4534325	6.873208	15.93667	2.316429E-02			15	
Dibromomethane	0.1896182	11.46889	13.63856	2.978158E-02			15	
1,2-Dichlorobenzene	0.9705237	8.407707	19.03511	2.694366E-03			15	
1,3-Dichlorobenzene	1.080832	6.190879	18.67178	1.189958E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1067001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 3/7/11 12:53 3/7/11 22:27

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.153474	6.60659	18.72089	8.928354E-03			15	
Dichlorodifluoromethane	0.312813	10.7244	4.119	9.264489E-02			15	
1,1-Dichloroethane	0.4332253	8.462878	9.104889	6.797151E-02			SPCC (0.1)	
1,2-Dichloroethane	0.4958154	6.096195	12.131	3.325407E-02			15	
1,1-Dichloroethene	0.1779832	11.23937	6.967667	0.1020339			CCC (20)	
cis-1,2-Dichloroethene	0.2226177	11.77531	10.56189	0.0539483			15	
trans-1,2-Dichloroethene	0.2077027	10.73761	8.525556	6.283411E-02			15	
1,2-Dichloroethene (total)	0.2151602	10.90176	0	0			15	
1,2-Dichloropropane	0.2138675	12.72516	13.69356	2.877113E-02	0.9994699		CCC (20)	
1,3-Dichloropropane	0.7045052	7.356771	15.46267	3.084139E-02			15	
2,2-Dichloropropane	0.387605	6.483752	11.15322	4.720791E-02			15	
1,1-Dichloropropene	0.3169346	12.22384	12.60622	4.157777E-02			15	
cis-1,3-Dichloropropene	0.3942719	12.15062	14.59088	1.900144E-02			15	
trans-1,3-Dichloropropene	0.6325373	15.33703	15.05978	2.420188E-02	0.996921		0.995	
Diisopropyl Ether	0.7397891	20.08696	10.34763	4.918967E-02	0.9988929		0.995	
Ethylbenzene	1.744482	8.836318	16.84989	7.809333E-03			CCC (20)	
Ethyl tert-Butyl Ether	0.6852749	17.62274	11.194	5.283168E-02	0.9997283		0.995	
Ethyl Methacrylate	0.4920032	19.18718	15.50875	1.084665E-02	0.9984347		0.995	
Hexachlorobutadiene	0.3208413	8.710181	21.0895	1.924166E-02			15	
2-Hexanone	0.314021	20.7876	15.6255	3.828329E-02	0.9990989		0.995	
Iodomethane	0.3171042	26.94596	7.022444	9.520778E-02	0.9998641		0.995	
Isopropylbenzene	1.42457	9.248017	17.611	1.726366E-02			15	
p-Isopropyltoluene	1.23658	14.38435	18.40356	2.441437E-02			15	
Methylene chloride	0.2446354	7.987043	7.210778	6.620158E-02			15	
Methyl Acetate	0.2084104	8.369294	7.26575	5.467954E-02			15	
Methylcyclohexane	0.2523952	13.6448	14.39522	2.265609E-02			15	
Naphthalene	1.191261	23.06464	21.05987	0.0200552	0.9993743		0.995	
Methyl Methacrylate	0.2187958	26.61597	14.03787	3.704044E-02	0.9996399		0.995	
4-Methyl-2-pentanone	0.2224454	20.85006	14.72738	3.833522E-02	0.9993275		0.995	
Methyl t-Butyl Ether	0.6052207	12.8349	8.8215	8.072976E-02			15	
n-Propylbenzene	2.237126	9.337402	17.95567	1.994119E-02			15	
Styrene	0.9900017	17.07341	17.26711	2.496185E-02	0.9965055		0.995	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1067001
Instrument: MS-VOA5
Matrix: Water
Calibration Dates: 3/7/11 12:53 3/7/11 22:27

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.6316098	10.04922	17.33711	2.899413E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.4599538	6.327222	16.63844	0.0277822			15	
tert-Butyl alcohol	2.388361E-02	13.61304	6.978556	0.1148859			15	
Tetrachloroethene	0.4471173	6.159572	16.11311	2.040489E-02			15	
Toluene	0.898576	5.037507	15.40022	1.146996E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.5261452	14.88703	21.32	1.886098E-02			15	
1,2,4-Trichlorobenzene	0.5974773	14.98864	20.7705	1.201415E-02			15	
1,1,2-Trichloroethane	0.3365667	8.950328	15.214	1.611987E-02			15	
1,1,1-Trichloroethane	0.4251429	6.687847	12.30511	4.576472E-02			15	
Tetrahydrofuran	5.018338E-02	22.93539	11.61686	9.895117E-02	0.9967826		0.995	
Trichloroethene	0.2427349	7.126394	13.76456	0.0129328			15	
Trichlorofluoromethane	0.4960261	4.904977	6.104889	0.1074519			15	
1,2,3-Trichloropropane	0.1614366	9.000474	17.44544	3.217736E-02			15	
1,3,5-Trimethylbenzene	1.570048	8.309356	18.16144	1.721281E-02			15	
1,2,4-Trimethylbenzene	1.587549	10.03676	18.48033	3.047003E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2442818	8.405401	7.325778	7.810021E-02			15	
Vinyl chloride	0.2947606	14.0323	4.588555	0.1334175	0.9995107		CCC (20)	
m,p-Xylene	1.366232	11.79195	17.00411	0.0168046			15	
o-Xylene	1.476455	10.00571	17.32733	2.448285E-02			15	
Vinyl acetate	0.2765328	28.3144	9.427714	0.103809	0.9990022		0.995	
Xylenes (total)	1.402973	10.95705	0	0			15	
Dibromofluoromethane	0.366028	4.005568	11.20267	2.634153E-02			15	
1,2-Dichloroethane-d4	0.0638648	3.315651	12.00522	3.970752E-02			15	
Toluene-d8	1.740628	7.986821	15.329	2.384962E-02			15	
tert-Amyl alcohol	1.211988E-02	27.37992	11.86886	4.178914E-02	0.9964038		0.995	
tert-Amyl ethyl ether	0.5459039	17.64679	14.268	2.379276E-02	0.9999014		0.995	

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1069001
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 3/9/11 9:58 3/9/11 19:23

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone												
Acrolein	2.501	3.799022E-02	5.002	0.0362951	10	0.0395071	25.01	2.884796E-02	50.02	2.847209E-02	250.1	3.456131E-02
Acrylonitrile	2.499	0.0560181	4.998	7.258243E-02	9.996	7.476878E-02	24.99	7.113191E-02	49.98	7.012826E-02	249.9	8.059316E-02
Benzene	0.5	0.7349087	1	0.7844638	2	0.8320594	5	0.7590152	10	0.733647	50	0.8489301
Bromobenzene	0.5	0.5534628	1	0.6873389	2	0.721701	5	0.6929701	10	0.6239916	50	0.6928493
Bromochloromethane	0.5	0.1328966	1	0.1592212	2	0.1647669	5	0.1540515	10	0.1481128	50	0.1745426
Tert-Amyl Methyl Ether	0.5	~~1.318563~~	1	0.9790309	2	0.8262974	5	0.6711029	10	0.6186842	50	0.6656582
Bromodichloromethane	0.5	0.3323805	1	0.3966164	2	0.3700583	5	0.3644218	10	0.3315468	50	0.3728226
Bromoform	0.5	0.4839881	1	0.6379658	2	0.5799222	5	0.6282434	10	0.5485618	50	0.6472848
Bromomethane	0.5	0.1943661	1	0.1693371	2	0.1419241	5	0.1381161	10	0.1337333	50	0.1685201
Bromofluorobenzene	30	0.9264554	30	0.9877756	30	0.9766506	30	1.047494	30	1.043685	30	0.9637118
n-Butylbenzene	0.5	1.020356	1	1.20255	2	1.191222	5	1.181776	10	1.083446	50	1.225759
2-Butanone												
sec-Butylbenzene	0.5	1.584347	1	1.669032	2	1.624292	5	1.618635	10	1.495325	50	1.674294
tert-Butylbenzene	0.5	1.066097	1	1.250542	2	1.224387	5	1.144894	10	1.10604	50	1.141487
Carbon disulfide	0.5	0.6486288	1	0.7064394	2	0.6866312	5	0.6917013	10	0.6497521	50	0.7572277
Carbon tetrachloride	0.5	0.3124655	1	0.3723741	2	0.3464385	5	0.3439559	10	0.345124	50	0.3912837
Chlorobenzene	0.5	1.4453	1	1.61776	2	1.562751	5	1.546563	10	1.399073	50	1.544458
Chloroethane	0.5	0.1707796	1	0.127377	2	0.1214419	5	0.1453277	10	0.1304722	50	0.1756672
Chloroform	0.5	0.4784611	1	0.5589503	2	0.510179	5	0.4741495	10	0.4338264	50	0.4975459
2-Chloroethyl vinyl ether	0.9975	0.0938296	1.995	0.126001	3.99	0.1346955	9.975	0.1313021	19.95	0.1217588	99.75	0.1440637
Chloromethane	0.5	0.2625111	1	0.2408071	2	0.1951896	5	0.2234318	10	0.2050277	50	0.215381
1-Chlorohexane	0.501	1.364594	1.002	1.284006	2.004	1.28545	5.01	1.168197	10.02	1.086301	50.1	1.228584
2-Chlorotoluene	0.5	1.275971	1	1.517358	2	1.534157	5	1.492501	10	1.254807	50	1.40881
4-Chlorotoluene	0.5	1.388512	1	1.717577	2	1.541038	5	1.493361	10	1.183287	50	1.451584
Cyclohexane	0.5	0.209664	1	0.2960557	2	0.2383973	5	0.2589836	10	0.245487	50	0.2684536
Dibromochloromethane	0.5	0.6468726	1	0.6737946	2	0.762587	5	0.780477	10	0.664636	50	0.8197517
1,2-Dibromo-3-chloropropane	0.5	0.1284511	1	0.1249371	2	0.1197049	5	0.1537442	10	0.1243589	50	0.147716
1,2-Dibromoethane (EDB)	0.5	0.4362691	1	0.6111474	2	0.6614045	5	0.6576611	10	0.5723558	50	0.6750622
Dibromomethane	0.5	0.1559268	1	0.2011814	2	0.1860995	5	0.188091	10	0.1756164	50	0.201105
1,2-Dichlorobenzene	0.5	0.9789424	1	1.066463	2	1.069564	5	1.08273	10	0.9612415	50	1.069855

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1069001
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 3/9/11 9:58 3/9/11 19:23

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	0.5	1.035681	1	1.147475	2	1.234058	5	1.006082	10	0.9476375	50	1.056027
1,4-Dichlorobenzene	0.5	1.091483	1	1.379422	2	1.237746	5	1.218888	10	1.058885	50	1.103125
Dichlorodifluoromethane	0.5	0.2192877	1	0.174036	2	0.2058193	5	0.2598391	10	0.2598972	50	0.2830451
1,1-Dichloroethane	0.5	0.3481234	1	0.4781126	2	0.4268866	5	0.4424898	10	0.4093144	50	0.4591223
1,2-Dichloroethane	0.5	0.3517393	1	0.422026	2	0.401654	5	0.369368	10	0.353312	50	0.4067237
1,1-Dichloroethene	0.5	0.2091633	1	0.2251843	2	0.209426	5	0.2185458	10	0.1987168	50	0.2259635
cis-1,2-Dichloroethene	0.5	0.2201778	1	0.2855806	2	0.2725735	5	0.250049	10	0.2602248	50	0.2821091
trans-1,2-Dichloroethene	0.5	0.2163394	1	0.2427226	2	0.2527217	5	0.2414939	10	0.2403856	50	0.264883
1,2-Dichloroethene (total)	1	0.2182586	2	0.2641516	4	0.2626476	10	0.2457714	20	0.2503052	100	0.273496
1,2-Dichloropropane	0.5	0.1844642	1	0.2324271	2	0.2031949	5	0.2154552	10	0.1903787	50	0.2234975
1,3-Dichloropropane	0.5	0.6925922	1	0.8064676	2	0.8862942	5	0.8176274	10	0.7627742	50	0.8415426
2,2-Dichloropropane	0.5	0.3359964	1	0.3733019	2	0.3813331	5	0.3694283	10	0.342558	50	0.3798727
1,1-Dichloropropene	0.5	0.2545006	1	0.3021013	2	0.289185	5	0.3109646	10	0.2936903	50	0.3262936
cis-1,3-Dichloropropene	0.5	0.2936074	1	0.3574696	2	0.3667301	5	0.3624336	10	0.3419027	50	0.3847524
trans-1,3-Dichloropropene	0.5	0.5940884	1	0.7489996	2	0.7938714	5	0.8156602	10	0.7606319	50	0.8560754
Diisopropyl Ether	0.5	0.6637598	1	0.7671649	2	0.7821514	5	0.7256625	10	0.7367488	50	0.8258789
Ethylbenzene	0.5	2.037389	1	2.359026	2	2.274675	5	2.255523	10	2.190546	50	2.352379
Ethyl tert-Butyl Ether	0.5	0.5310857	1	0.7304123	2	0.7007796	5	0.6958342	10	0.6548014	50	0.7439348
Ethyl Methacrylate	0.5	0.2931121	1	0.4632205	2	0.5412012	5	0.6089191	10	0.5481851	50	0.6733289
Hexachlorobutadiene	0.5	0.3226486	1	0.3393878	2	0.3350002	5	0.2886658	10	0.2730709	50	0.2696881
2-Hexanone												
Iodomethane	0.5	0.2158944	1	0.2515216	2	0.280564	5	0.3228032	10	0.3315162	50	0.4257489
Isopropylbenzene	0.5	1.598321	1	1.892045	2	1.842415	5	1.923803	10	1.763518	50	1.893771
p-Isopropyltoluene	0.5	1.355522	1	1.449406	2	1.456575	5	1.363203	10	1.260595	50	1.376076
Methylene chloride	0.5	0.2356425	1	0.271544	2	0.2763708	5	0.240548	10	0.2574659	50	0.2777505
Methyl Acetate	0.5		1	0.1955548	2	0.179619	5	0.1800962	10	0.1594487	50	0.1846257
Methylcyclohexane	0.5	0.220289	1	0.240867	2	0.2178564	5	0.2121175	10	0.2024127	50	0.2353721
Naphthalene	0.5	1.081774	1	1.257565	2	1.253492	5	1.387782	10	1.250613	50	1.365707
Methyl Methacrylate	0.5	0.1143167	1	0.1754726	2	0.1628902	5	0.1737161	10	0.1727197	50	0.2023683
4-Methyl-2-pentanone												
Methyl t-Butyl Ether	0.5	0.5397081	1	0.6604687	2	0.6536719	5	0.6058132	10	0.6254392	50	0.6885701

INITIAL CALIBRATION DATA

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1069001
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 3/9/11 9:58 3/9/11 19:23

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	0.5	1.679223	1	1.975091	2	2.088575	5	1.87831	10	1.797856	50	2.086253
Styrene	0.5	1.242827	1	1.467492	2	1.463499	5	1.624223	10	1.442546	50	1.512582
1,1,2,2-Tetrachloroethane	0.5	0.4639682	1	0.5565492	2	0.4970761	5	0.5812222	10	0.4717067	50	0.5256029
1,1,1,2-Tetrachloroethane	0.5	0.5723616	1	0.6510912	2	0.7034149	5	0.6511692	10	0.583274	50	0.6479041
tert-Butyl alcohol	2.5	1.649943E-02	5	2.537962E-02	10	0.0227753	25	2.353246E-02	50	0.0220678	250	2.512375E-02
Tetrachloroethene	0.5	0.6332767	1	0.7966058	2	0.7584754	5	0.7057827	10	0.6597605	50	0.7230962
Toluene	0.5	1.079676	1	1.198811	2	1.257094	5	1.224466	10	1.119196	50	1.2078
1,2,3-Trichlorobenzene	0.5	0.4957885	1	0.6150134	2	0.623662	5	0.6000691	10	0.5562032	50	0.5746721
1,2,4-Trichlorobenzene	0.5	0.6134768	1	0.6827185	2	0.6812208	5	0.6851647	10	0.5921335	50	0.6326554
1,1,2-Trichloroethane	0.5	0.3604252	1	0.4471152	2	0.4385885	5	0.4548243	10	0.4227736	50	0.4368328
1,1,1-Trichloroethane	0.5	0.3558558	1	0.4143942	2	0.410231	5	0.382785	10	0.3682948	50	0.4391811
Tetrahydrofuran	0.5		1		2	4.675578E-02	5	5.008329E-02	10	4.252311E-02	50	5.417075E-02
Trichloroethene	0.5	0.2391471	1	0.2578366	2	0.2665182	5	0.2653517	10	0.2395251	50	0.270966
Trichlorofluoromethane	0.5	0.4356827	1	0.5028936	2	0.4769119	5	0.478656	10	0.4548078	50	0.5089457
1,2,3-Trichloropropane	0.5	0.1692825	1	0.1899282	2	0.1852033	5	0.2147613	10	0.1786728	50	0.2077815
1,3,5-Trimethylbenzene	0.5	1.210927	1	1.515941	2	1.423317	5	1.381589	10	1.278527	50	1.487478
1,2,4-Trimethylbenzene	0.5	1.324169	1	1.491237	2	1.535056	5	1.538606	10	1.331256	50	1.540289
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.2417616	1	0.2905488	2	0.2493642	5	0.2560797	10	0.2450706	50	0.258173
Vinyl chloride	0.5	0.2307472	1	0.2176123	2	0.196993	5	0.2052071	10	0.2111305	50	0.2226009
m,p-Xylene	1	1.497484	2	1.843304	4	1.793111	10	1.885025	20	1.672911	100	1.822646
o-Xylene	0.5	1.600986	1	1.888143	2	1.924756	5	2.048828	10	1.799087	50	1.931952
Vinyl acetate	0.9995	0.1840556	1.999	0.187987	3.998	0.1996513	9.995	0.2212109	19.99	0.2183084	99.95	0.2648332
Xylenes (total)	1.5	1.531985	3	1.85825	6	1.836993	15	1.939626	30	1.71497	150	1.859081
Dibromofluoromethane	30	0.3734928	30	0.3798563	30	0.370201	30	0.3645443	30	0.3801491	30	0.3645393
1,2-Dichloroethane-d4	30	6.617479E-02	30	6.760018E-02	30	6.591065E-02	30	0.0671382	30	6.934592E-02	30	6.602322E-02
Toluene-d8	30	2.181919	30	2.098166	30	2.188524	30	2.31626	30	2.223461	30	2.197404
tert-Amyl alcohol	2.5		5		10	1.022205E-02	25	1.175659E-02	50	1.303773E-02	250	0.0134535
tert-Amyl ethyl ether	0.5	0.4412456	1	0.5247416	2	0.5447071	5	0.5229194	10	0.5109388	50	0.568173

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1069001
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 3/9/11 9:58 3/9/11 19:23

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone							1	0.1047995	2	9.229014E-02	4	8.889502E-02
Acrolein	500.2	3.453044E-02	750.3	3.563856E-02	1000	3.801713E-02						
Acrylonitrile	499.8	8.339555E-02	749.7	8.180269E-02	999.6	8.414343E-02						
Benzene	100	0.8628569	150	0.8274263	200	0.8399137						
Bromobenzene	100	0.7057151	150	0.7007381	200	0.7360542						
Bromochloromethane	100	0.1765896	150	0.1686999	200	0.1636723						
Tert-Amyl Methyl Ether	100	0.6814918	150	0.6603422	200	0.6764502						
Bromodichloromethane	100	0.3855109	150	0.3638946	200	0.3634096						
Bromoform	100	0.620087	150	0.6107978	200	0.5854191						
Bromomethane	100	0.1857576	150	0.2001505	200	0.1976833						
Bromofluorobenzene	30	0.9064071	30	0.8924853	30	0.840205						
n-Butylbenzene	100	1.22702	150	1.210205	200	1.290962						
2-Butanone							1		2	7.536008E-02	4	0.0941702
sec-Butylbenzene	100	1.667238	150	1.559433	200	1.682437						
tert-Butylbenzene	100	1.24839	150	1.223188	200	1.152513						
Carbon disulfide	100	0.784158	150	0.7837032	200	0.7880119						
Carbon tetrachloride	100	0.3875215	150	0.3856218	200	0.352313						
Chlorobenzene	100	1.45513	150	1.404437	200	1.353044						
Chloroethane	100	0.1539521	150	0.1739882	200	0.1407709						
Chloroform	100	0.5124381	150	0.5122672	200	0.4894774						
2-Chloroethyl vinyl ether	199.5	0.1416562	299.2	0.1389198	399	0.1368563						
Chloromethane	100	0.2263848	150	0.2232599	200	0.2179377						
1-Chlorohexane	100.2	1.151388	150.3	1.082455	200.4	1.062493						
2-Chlorotoluene	100	1.417112	150	1.398179	200	1.498822						
4-Chlorotoluene	100	1.47232	150	1.463771	200	1.463221						
Cyclohexane	100	0.2883432	150	0.2886867	200	0.2799751						
Dibromochloromethane	100	0.7465141	150	0.7379206	200	0.6965811						
1,2-Dibromo-3-chloropropane	100	0.1576604	150	0.1591385	200	0.1674729						
1,2-Dibromoethane (EDB)	100	0.6295387	150	0.6137763	200	0.6064298						
Dibromomethane	100	0.1987114	150	0.1957009	200	0.1891884						
1,2-Dichlorobenzene	100	1.074496	150	1.058758	200	1.087764						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1069001
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 3/9/11 9:58 3/9/11 19:23

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene	100	1.107303	150	1.055509	200	1.024928						
1,4-Dichlorobenzene	100	1.243075	150	1.097608	200	1.035199						
Dichlorodifluoromethane	100	0.283534	150	0.2731862	200	0.2567806						
1,1-Dichloroethane	100	0.474786	150	0.4690626	200	0.4695128						
1,2-Dichloroethane	100	0.4022549	150	0.3841947	200	0.3746855						
1,1-Dichloroethene	100	0.2322406	150	0.2325733	200	0.2348764						
cis-1,2-Dichloroethene	100	0.2932499	150	0.2973478	200	0.28529						
trans-1,2-Dichloroethene	100	0.2673354	150	0.2753796	200	0.2766496						
1,2-Dichloroethene (total)	200	0.2802926	300	0.2863637	400	0.2809698						
1,2-Dichloropropane	100	0.2146524	150	0.2151135	200	0.2161513						
1,3-Dichloropropane	100	0.8131099	150	0.8143848	200	0.770362						
2,2-Dichloropropane	100	0.3831115	150	0.3644441	200	0.3562248						
1,1-Dichloropropene	100	0.3367302	150	0.3324683	200	0.3309207						
cis-1,3-Dichloropropene	100	0.4070982	150	0.3904638	200	0.3699678						
trans-1,3-Dichloropropene	100	0.8302558	150	0.8278166	200	0.7755888						
Diisopropyl Ether	100	0.8813265	150	0.8465036	200	0.8542439						
Ethylbenzene	100	2.193454	150	2.181216	200	2.093087						
Ethyl tert-Butyl Ether	100	0.765906	150	0.7565882	200	0.7516448						
Ethyl Methacrylate	100	0.6647175	150	0.6635182	200	0.6584686						
Hexachlorobutadiene	100	0.2890469	150	0.285587	200	0.29864						
2-Hexanone							1	~~0.1270997~~	2	0.206893	4	0.258197
Iodomethane	100	0.4397382	150	0.4315827	200	0.4301889						
Isopropylbenzene	100	1.825837	150	1.704154	200	1.549731						
p-Isopropyltoluene	100	1.364916	150	1.272723	200	1.27128						
Methylene chloride	100	0.1977637	150	0.287906	200	0.2835786						
Methyl Acetate	100	0.1929571	150	0.1913882	200	0.1914061						
Methylcyclohexane	100	0.2268113	150	0.228156	200	0.2238998						
Naphthalene	100	1.383743	150	1.400045	200	1.504225						
Methyl Methacrylate	100	0.2175462	150	0.2101609	200	0.2112587						
4-Methyl-2-pentanone							1	0.1489374	2	0.1512608	4	0.1723966
Methyl t-Butyl Ether	100	0.7058224	150	0.7193001	200	0.7110369						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1069001
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 3/9/11 9:58 3/9/11 19:23

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene	100	2.012427	150	2.037799	200	2.019559						
Styrene	100	1.469151	150	1.494118	200	1.366908						
1,1,2,2-Tetrachloroethane	100	0.5331435	150	0.5483379	200	0.576756						
1,1,1,2-Tetrachloroethane	100	0.604312	150	0.5853991	200	0.55867						
tert-Butyl alcohol	500	2.482369E-02	750	2.416301E-02	1000	2.507806E-02						
Tetrachloroethene	100	0.6857959	150	0.6580545	200	0.6565266						
Toluene	100	1.214956	150	1.210331	200	1.182741						
1,2,3-Trichlorobenzene	100	0.6216114	150	0.5931378	200	0.6391422						
1,2,4-Trichlorobenzene	100	0.6694088	150	0.6639745	200	0.691558						
1,1,2-Trichloroethane	100	0.4112281	150	0.4170381	200	0.4181203						
1,1,1-Trichloroethane	100	0.4223996	150	0.4081753	200	0.3960539						
Tetrahydrofuran	100	5.737095E-02	150	5.829859E-02	200	5.968529E-02						
Trichloroethene	100	0.2729438	150	0.2564407	200	0.2535696						
Trichlorofluoromethane	100	0.501502	150	0.4757584	200	0.4691436						
1,2,3-Trichloropropane	100	0.1900073	150	0.1773564	200	0.1698441						
1,3,5-Trimethylbenzene	100	1.485606	150	1.529409	200	1.460175						
1,2,4-Trimethylbenzene	100	1.560682	150	1.490933	200	1.51939						
1,1,2-Trichloro-1,2,2-trifluoroethan	100	0.2563987	150	0.2632744	200	0.256425						
Vinyl chloride	100	0.2144842	150	0.1982413	200	0.1838877						
m,p-Xylene	200	1.621395	300	1.578245	400	1.49381						
o-Xylene	100	1.760446	150	1.737801	200	1.647772						
Vinyl acetate	199.9	0.2919151	299.8	0.2824465	399.8	0.2925038						
Xylenes (total)	300	1.667746	450	1.63143	600	1.545131						
Dibromofluoromethane	30	0.3648862	30	0.3573896	30	0.3386588						
1,2-Dichloroethane-d4	30	6.767342E-02	30	6.720966E-02	30	6.748541E-02						
Toluene-d8	30	2.177911	30	2.233218	30	2.04481						
tert-Amyl alcohol	500	1.445136E-02	750	1.469416E-02	1000	1.540798E-02						
tert-Amyl ethyl ether	100	0.5862948	150	0.5771874	200	0.5557311						

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1069001
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 3/9/11 9:58 3/9/11 19:23

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	10	7.970127E-02	20	7.591664E-02	100	7.972374E-02	200	7.863686E-02	300	8.005971E-02	400	8.333281E-02
Acrolein												
Acrylonitrile												
Benzene												
Bromobenzene												
Bromochloromethane												
Tert-Amyl Methyl Ether												
Bromodichloromethane												
Bromoform												
Bromomethane												
Bromofluorobenzene												
n-Butylbenzene												
2-Butanone	10	9.823262E-02	20	8.817136E-02	100	0.1021857	200	0.1042871	300	0.1028989	400	0.1068182
sec-Butylbenzene												
tert-Butylbenzene												
Carbon disulfide												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
2-Chloroethyl vinyl ether												
Chloromethane												
1-Chlorohexane												
2-Chlorotoluene												
4-Chlorotoluene												
Cyclohexane												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane (EDB)												
Dibromomethane												
1,2-Dichlorobenzene												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1069001
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 3/9/11 9:58 3/9/11 19:23

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloroethene (total)												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Diisopropyl Ether												
Ethylbenzene												
Ethyl tert-Butyl Ether												
Ethyl Methacrylate												
Hexachlorobutadiene												
2-Hexanone	10	0.2617164	20	0.2867912	100	0.346724	200	0.3375328	300	0.3300144	400	0.3307557
Iodomethane												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl Acetate												
Methylcyclohexane												
Naphthalene												
Methyl Methacrylate												
4-Methyl-2-pentanone	10	0.1625607	20	0.1716853	100	0.1969182	200	0.1937048	300	0.1929133	400	0.199265
Methyl t-Butyl Ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1069001
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 3/9/11 9:58 3/9/11 19:23

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
n-Propylbenzene												
Styrene												
1,1,2,2-Tetrachloroethane												
1,1,1,2-Tetrachloroethane												
tert-Butyl alcohol												
Tetrachloroethene												
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,2-Trichloroethane												
1,1,1-Trichloroethane												
Tetrahydrofuran												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,3,5-Trimethylbenzene												
1,2,4-Trimethylbenzene												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
m,p-Xylene												
o-Xylene												
Vinyl acetate												
Xylenes (total)												
Dibromofluoromethane												
1,2-Dichloroethane-d4												
Toluene-d8												
tert-Amyl alcohol												
tert-Amyl ethyl ether												

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1069001
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 3/9/11 9:58 3/9/11 19:23

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Acetone	0.0848173	10.7585	4.812333	0.3104105			15	
Acrolein	3.487332E-02	11.16002	4.678444	0.4714078	0.9977592		0.995	
Acrylonitrile	7.495159E-02	11.90104	5.420333	0.3841346			15	
Benzene	0.8025801	6.263944	11.36556	8.213263E-02			15	
Bromobenzene	0.6794246	8.310525	16.62267	1.499404E-02			15	
Bromochloromethane	0.1602837	8.570775	8.480667	0.2270254			15	
Tert-Amyl Methyl Ether	0.7223822	16.61979	11.7655	7.019308E-02	0.9997167		0.995	
Bromodichloromethane	0.364518	5.893601	12.494	0.0591584			15	
Bromoform	0.5935856	8.702024	15.93244	1.973287E-02			SPCC (0.1)	
Bromomethane	0.1699542	15.62315	3.948778	0.5627596	0.9983864		0.995	
Bromofluorobenzene	0.9538744	7.252793	16.46811	8.227469E-03			15	
n-Butylbenzene	1.181477	6.886346	17.71622	2.079279E-02			15	
2-Butanone	9.651552E-02	10.83188	7.839	0.3068486			15	
sec-Butylbenzene	1.619448	3.9043	17.302	1.943053E-02			15	
tert-Butylbenzene	1.17306	5.636201	17.14867	1.954691E-02			15	
Carbon disulfide	0.721806	7.940981	5.843333	0.3128362			15	
Carbon tetrachloride	0.3596776	7.30712	11.30089	0.110804			15	
Chlorobenzene	1.480946	6.067922	15.53233	2.423452E-02			SPCC (0.3)	
Chloroethane	0.1488641	14.02209	4.087889	0.5790905			15	
Chloroform	0.4963661	6.903249	8.605556	0.185783			CCC (20)	
2-Chloroethyl vinyl ether	0.1298981	11.78904	13.14278	0.032642	0.9996392		0.995	
Chloromethane	0.2233256	8.770412	3.385556	0.6853297			SPCC (0.1)	
1-Chlorohexane	1.190385	8.933067	15.49856	2.307677E-02			15	
2-Chlorotoluene	1.421969	7.145335	16.82756	2.027307E-02			15	
4-Chlorotoluene	1.463852	9.533882	16.88333	1.930999E-02			15	
Cyclohexane	0.2637829	10.78936	11.14856	8.408415E-02			15	
Dibromochloromethane	0.7254594	8.048472	14.52233	2.268251E-02			15	
1,2-Dibromo-3-chloropropane	0.142576	12.73747	18.02278	2.761752E-02			15	
1,2-Dibromoethane (EDB)	0.6070717	11.80396	14.75656	2.513834E-02			15	
Dibromomethane	0.1879579	7.770674	12.29911	0.0561101			15	
1,2-Dichlorobenzene	1.049979	4.409593	17.68667	7.090725E-03			15	
1,3-Dichlorobenzene	1.0683	7.898223	17.37433	1.867381E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1069001
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 3/9/11 9:58 3/9/11 19:23

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,4-Dichlorobenzene	1.162826	9.715687	17.41933	1.366726E-02			15	
Dichlorodifluoromethane	0.2461584	15.42099	3.199333	0.703059	0.9974744		0.995	
1,1-Dichloroethane	0.4419345	9.557166	6.981667	0.306893			SPCC (0.1)	
1,2-Dichloroethane	0.3851065	6.413092	10.33444	0.1401211			15	
1,1-Dichloroethene	0.2207433	5.710117	5.350111	0.3400287			CCC (20)	
cis-1,2-Dichloroethene	0.2718447	9.070006	8.149556	0.2583957			15	
trans-1,2-Dichloroethene	0.2531012	7.837493	6.532444	0.2971406			15	
1,2-Dichloroethene (total)	0.2624729	8.234085	0	0			15	
1,2-Dichloropropane	0.2105928	7.280792	12.36922	5.008754E-02			CCC (20)	
1,3-Dichloropropane	0.8005728	6.798945	14.29444	3.057867E-02			15	
2,2-Dichloropropane	0.3651412	4.67033	8.802667	0.1603572			15	
1,1-Dichloropropene	0.3085394	8.686192	11.01822	0.126295			15	
cis-1,3-Dichloropropene	0.3638251	8.96965	13.37944	3.756091E-02			15	
trans-1,3-Dichloropropene	0.7781098	9.949676	13.88578	5.967537E-02			15	
Diisopropyl Ether	0.7870489	9.025062	7.905333	0.247916			15	
Ethylbenzene	2.215255	4.878387	15.69567	2.368768E-02			CCC (20)	
Ethyl tert-Butyl Ether	0.703443	10.4892	8.841111	0.1823551			15	
Ethyl Methacrylate	0.5682968	22.17808	14.37544	5.416734E-02	0.9998937		0.995	
Hexachlorobutadiene	0.3001928	8.647512	19.37711	1.855537E-02			15	
2-Hexanone	0.2948281	16.85265	14.48187	7.245763E-02	0.9997069		0.995	
Iodomethane	0.3477287	24.99127	5.390556	0.3425984	0.9998108		0.995	
Isopropylbenzene	1.777066	7.553727	16.43644	2.063405E-02			15	
p-Isopropyltoluene	1.352255	5.387689	17.42367	1.282498E-02			15	
Methylene chloride	0.25873	11.34107	5.544111	0.3371984			15	
Methyl Acetate	0.184387	6.349795	5.583875	0.4021338			15	
Methylcyclohexane	0.2230869	5.232871	13.12078	2.945121E-02			15	
Naphthalene	1.32055	9.312218	19.35111	1.831673E-02			15	
Methyl Methacrylate	0.1822722	17.852	12.81611	0.1109764	0.9996602		0.995	
4-Methyl-2-pentanone	0.1766269	11.20135	13.54289	8.435261E-02			15	
Methyl t-Butyl Ether	0.6566478	8.941229	6.743889	0.3282232			15	
n-Propylbenzene	1.952788	7.159602	16.753	1.737333E-02			15	
Styrene	1.453705	7.166552	16.10978	1.692211E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8260B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1069001
Instrument: MS-VOA4
Matrix: Water
Calibration Dates: 3/9/11 9:58 3/9/11 19:23

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,2,2-Tetrachloroethane	0.5282625	8.113244	16.17667	2.551823E-02			SPCC (0.3)	
1,1,1,2-Tetrachloroethane	0.6175107	7.775263	15.47656	1.479017E-02			15	
tert-Butyl alcohol	2.327146E-02	11.95945	5.360111	0.4526023			15	
Tetrachloroethene	0.697486	7.718231	14.93656	2.396194E-02			15	
Toluene	1.188341	4.640986	14.21656	2.641631E-02			CCC (20)	
1,2,3-Trichlorobenzene	0.5910333	7.454108	19.55811	2.174356E-02			15	
1,2,4-Trichlorobenzene	0.6569235	5.417565	19.12311	1.934733E-02			15	
1,1,2-Trichloroethane	0.422994	6.550664	14.03122	4.645654E-02			15	
1,1,1-Trichloroethane	0.3997079	6.666737	10.57878	0.1254036			15	
Tetrahydrofuran	5.269825E-02	12.24573	9.437286	0.3474628			15	
Trichloroethene	0.2580332	4.818838	12.446	5.885167E-02			15	
Trichlorofluoromethane	0.4782557	4.982612	4.690556	0.4256858			15	
1,2,3-Trichloropropane	0.1869819	8.443368	16.28189	1.104819E-02			15	
1,3,5-Trimethylbenzene	1.419219	7.752885	16.95033	2.378185E-02			15	
1,2,4-Trimethylbenzene	1.481291	6.075825	17.22644	0.0259587			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.2574551	5.490917	5.610889	0.3045649			15	
Vinyl chloride	0.2089894	6.916752	3.548889	0.6364395			CCC (20)	
m,p-Xylene	1.68977	8.945822	15.85567	2.087368E-02			15	
o-Xylene	1.81553	7.998587	16.16578	2.734156E-02			15	
Vinyl acetate	0.2381013	18.85541	7.240333	0.366362	0.9992971		0.995	
Xylenes (total)	1.73169	8.557447	0	0			15	
Dibromofluoromethane	0.3659686	3.474073	8.882667	0.186141			15	
1,2-Dichloroethane-d4	0.0671735	1.593544	10.123	0.1655867			15	
Toluene-d8	2.18463	3.562294	14.141	2.928835E-02			15	
tert-Amyl alcohol	1.328905E-02	13.62152	9.905143	0.245464			15	
tert-Amyl ethyl ether	0.5368821	8.231243	13.03756	4.475939E-02			15	

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1067001
Lab File ID:	0307ICV1.D	Calibration Date:	03/07/11 12:53
Sequence:	1C06704	Injection Date:	03/07/11
Lab Sample ID:	1C06704-ICV1	Injection Time:	17:25

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzene	A	50.00	59.48	0.7397262	0.8799265		19.0	20
Bromobenzene	A	50.00	55.30	0.5955635	0.6587394		10.6	20
Bromochloromethane	A	50.00	54.85	0.1240907	0.1361272		9.7	20
Bromodichloromethane	A	50.00	53.75	0.393441	0.4229182		7.5	20
Bromoform	A	50.00	57.40	0.3892677	0.4469115	0.1	14.8	20
Bromomethane	A	50.00	51.92	0.2262604	0.234957		3.8	20
n-Butylbenzene	A	50.00	57.74	1.378201	1.591496		15.5	20
sec-Butylbenzene	A	50.00	55.42	1.844833	2.044655		10.8	20
tert-Butylbenzene	A	50.00	53.80	1.620182	1.743335		7.6	20
Carbon disulfide	A	50.00	58.41	0.6346432	0.7413352		16.8	20
Carbon tetrachloride	A	50.00	49.09	0.3803403	0.3734151		-1.8	20
Chlorobenzene	A	50.00	55.74	1.095895	1.221753	0.3	11.5	20
Chloroethane	A	50.00	54.54	0.1608279	0.1754173		9.1	20
Chloroform	A	50.00	49.17	0.5084763	0.5000049		-1.7	20
Chloromethane	A	50.00	57.49	0.2980831	0.3427103	0.1	15.0	20
2-Chlorotoluene	A	50.00	55.00	1.523137	1.675585		10.0	20
4-Chlorotoluene	A	50.00	55.83	1.587775	1.773012		11.7	20
Dibromochloromethane	A	50.00	58.28	0.5274875	0.6148636		16.6	20
1,2-Dibromo-3-chloropropane	L	50.00	47.17	0.1119632	0.1291693		-5.7	20
1,2-Dibromoethane (EDB)	A	50.00	55.92	0.4534325	0.5070809		11.8	20
Dibromomethane	A	50.00	51.72	0.1896182	0.1961292		3.4	20
1,2-Dichlorobenzene	A	50.00	56.09	0.9705237	1.088711		12.2	20
1,3-Dichlorobenzene	A	50.00	52.91	1.080832	1.143647		5.8	20
1,4-Dichlorobenzene	A	50.00	52.36	1.153474	1.207882		4.7	20
Dichlorodifluoromethane	A	50.00	58.04	0.312813	0.3631019		16.1	20
1,1-Dichloroethane	A	50.00	56.02	0.4332253	0.4854186	0.1	12.0	20
1,2-Dichloroethane	A	50.00	47.12	0.4958154	0.4673052		-5.8	20
1,1-Dichloroethene	A	50.00	59.42	0.1779832	0.2115188		18.8	20
cis-1,2-Dichloroethene	A	50.00	57.97	0.2226177	0.2580961		15.9	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1067001
Lab File ID:	0307ICV1.D	Calibration Date:	03/07/11 12:53
Sequence:	1C06704	Injection Date:	03/07/11
Lab Sample ID:	1C06704-ICV1	Injection Time:	17:25

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
trans-1,2-Dichloroethene	A	50.00	59.92	0.2077027	0.2489035		19.8	20
1,2-Dichloropropane	L	50.00	51.37	0.2138675	0.2437518		2.7	20
1,3-Dichloropropane	A	50.00	56.32	0.7045052	0.7936188		12.6	20
2,2-Dichloropropane	A	50.00	49.07	0.387605	0.3803702		-1.9	20
1,1-Dichloropropene	A	50.00	58.71	0.3169346	0.3721348		17.4	20
cis-1,3-Dichloropropene	A	50.00	54.53	0.3942719	0.4300312		9.1	20
Hexachlorobutadiene	A	50.00	55.74	0.3208413	0.3576504		11.5	20
p-Isopropyltoluene	A	50.00	57.62	1.23658	1.424987		15.2	20
Methylene chloride	A	50.00	50.99	0.2446354	0.2494835		2.0	20
Naphthalene	L	50.00	50.81	1.191261	1.441401		1.6	20
Methyl t-Butyl Ether	A	50.00	53.21	0.6052207	0.6440646		6.4	20
n-Propylbenzene	A	50.00	56.93	2.237126	2.547313		13.9	20
1,1,2,2-Tetrachloroethane	A	50.00	52.93	0.6316098	0.6686627	0.3	5.9	20
1,1,1,2-Tetrachloroethane	A	50.00	54.81	0.4599538	0.5042274		9.6	20
1,2,3-Trichlorobenzene	A	50.00	57.70	0.5261452	0.6071389		15.4	20
1,2,4-Trichlorobenzene	A	50.00	58.39	0.5974773	0.6977		16.8	20
1,1,2-Trichloroethane	A	50.00	56.21	0.3365667	0.3783446		12.4	20
1,1,1-Trichloroethane	A	50.00	49.81	0.4251429	0.4235339		-0.4	20
Trichloroethene	A	50.00	55.49	0.2427349	0.2693846		11.0	20
Trichlorofluoromethane	A	50.00	47.36	0.4960261	0.4698238		-5.3	20
1,2,3-Trichloropropane	A	50.00	53.16	0.1614366	0.1716316		6.3	20
1,3,5-Trimethylbenzene	A	50.00	55.22	1.570048	1.73394		10.4	20
1,2,4-Trimethylbenzene	A	50.00	57.56	1.587549	1.827663		15.1	20
Vinyl chloride	L	50.00	50.30	0.2947606	0.3316271		0.6	20
m,p-Xylene	A	100.0	118.9	1.366232	1.624901		18.9	20
o-Xylene	A	50.00	59.25	1.476455	1.749506		18.5	20
Bromofluorobenzene	A	30.00	29.71	0.8739651	0.8654822		-1.0	20
Dibromofluoromethane	A	30.00	28.81	0.366028	0.3515641		-4.0	20
1,2-Dichloroethane-d4	A	30.00	30.40	0.0638648	6.471411E-02		1.3	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1067001
Lab File ID:	0307ICV1.D	Calibration Date:	03/07/11 12:53
Sequence:	1C06704	Injection Date:	03/07/11
Lab Sample ID:	1C06704-ICV1	Injection Time:	17:25

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Toluene-d8	A	30.00	32.47	1.740628	1.883703		8.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1067001
Lab File ID:	0307ICV2.D	Calibration Date:	03/07/11 12:53
Sequence:	1C06704	Injection Date:	03/07/11
Lab Sample ID:	1C06704-ICV2	Injection Time:	17:55

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
trans-1,3-Dichloropropene	L	100.0	118.1	0.6325373	0.8172188		18.1	20
Ethylbenzene	A	100.0	110.5	1.744482	1.927945		10.5	20
Isopropylbenzene	A	100.0	118.6	1.42457	1.689068		18.6	20
Styrene	L	100.0	116.7	0.9900017	1.258687		16.7	20
Tetrachloroethene	A	100.0	114.1	0.4471173	0.5103314		14.1	20
Toluene	A	100.0	114.8	0.898576	1.031524		14.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1067001
Lab File ID:	0307ICV3.D	Calibration Date:	03/07/11 12:53
Sequence:	1C06704	Injection Date:	03/07/11
Lab Sample ID:	1C06704-ICV3	Injection Time:	22:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	150.0	123.0	0.1123197	0.0920699		-18.0	20
2-Butanone	L	150.0	123.4	0.1085848	0.1016539		-17.7	20
2-Hexanone	L	150.0	124.6	0.314021	0.3068472		-16.9	20
4-Methyl-2-pentanone	L	150.0	126.7	0.2224454	0.2236004		-15.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1069001
Lab File ID:	0309ICV1.D	Calibration Date:	03/09/11 09:58
Sequence:	1C06802	Injection Date:	03/09/11
Lab Sample ID:	1C06802-ICV1	Injection Time:	14:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Benzene	A	50.00	52.85	0.8025801	0.8483129		5.7	20
Bromobenzene	A	50.00	51.72	0.6794246	0.7028316		3.4	20
Bromochloromethane	A	50.00	52.66	0.1602837	0.1688081		5.3	20
Bromodichloromethane	A	50.00	49.69	0.364518	0.3622227		-0.6	20
Bromoform	A	50.00	50.10	0.5935856	0.5947665	0.1	0.2	20
Bromomethane	L	50.00	42.82	0.1699542	0.1613989		-14.4	20
n-Butylbenzene	A	50.00	51.11	1.181477	1.207602		2.2	20
sec-Butylbenzene	A	50.00	51.96	1.619448	1.682858		3.9	20
tert-Butylbenzene	A	50.00	51.56	1.17306	1.209552		3.1	20
Carbon disulfide	A	50.00	57.04	0.721806	0.8234975		14.1	20
Carbon tetrachloride	A	50.00	46.86	0.3596776	0.3370834		-6.3	20
Chlorobenzene	A	50.00	50.64	1.480946	1.500043	0.3	1.3	20
Chloroethane	A	50.00	59.91	0.1488641	0.1783788		19.8	20
Chloroform	A	50.00	47.72	0.4963661	0.4737096		-4.6	20
Chloromethane	A	50.00	53.10	0.2233256	0.2371836	0.1	6.2	20
2-Chlorotoluene	A	50.00	47.46	1.421969	1.349701		-5.1	20
4-Chlorotoluene	A	50.00	51.07	1.463852	1.495167		2.1	20
Dibromochloromethane	A	50.00	52.47	0.7254594	0.7612543		4.9	20
1,2-Dibromo-3-chloropropane	A	50.00	50.22	0.142576	0.1432005		0.4	20
1,2-Dibromoethane (EDB)	A	50.00	53.20	0.6070717	0.6459112		6.4	20
Dibromomethane	A	50.00	50.03	0.1879579	0.1880793		0.06	20
1,2-Dichlorobenzene	A	50.00	48.45	1.049979	1.017378		-3.1	20
1,3-Dichlorobenzene	A	50.00	49.05	1.0683	1.048019		-1.9	20
1,4-Dichlorobenzene	A	50.00	55.93	1.162826	1.300624		11.9	20
Dichlorodifluoromethane	L	50.00	59.94	0.2461584	0.3221774		19.9	20
1,1-Dichloroethane	A	50.00	50.47	0.4419345	0.4460836	0.1	0.9	20
1,2-Dichloroethane	A	50.00	45.91	0.3851065	0.3536158		-8.2	20
1,1-Dichloroethene	A	50.00	55.89	0.2207433	0.2467469		11.8	20
cis-1,2-Dichloroethene	A	50.00	51.98	0.2718447	0.2825937		4.0	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1069001
Lab File ID:	0309ICV1.D	Calibration Date:	03/09/11 09:58
Sequence:	1C06802	Injection Date:	03/09/11
Lab Sample ID:	1C06802-ICV1	Injection Time:	14:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
trans-1,2-Dichloroethene	A	50.00	54.64	0.2531012	0.2765844		9.3	20
1,2-Dichloropropane	A	50.00	53.11	0.2105928	0.2237104		6.2	20
1,3-Dichloropropane	A	50.00	51.62	0.8005728	0.826509		3.2	20
2,2-Dichloropropane	A	50.00	44.80	0.3651412	0.3271808		-10.4	20
1,1-Dichloropropene	A	50.00	53.44	0.3085394	0.3297955		6.9	20
cis-1,3-Dichloropropene	A	50.00	51.07	0.3638251	0.3715964		2.1	20
trans-1,3-Dichloropropene	A	50.00	56.13	0.7781098	0.8735463		12.3	20
Ethylbenzene	A	50.00	55.01	2.215255	2.437233		10.0	20
Hexachlorobutadiene	A	50.00	53.75	0.3001928	0.3227262		7.5	20
Isopropylbenzene	A	50.00	53.69	1.777066	1.908364		7.4	20
p-Isopropyltoluene	A	50.00	53.04	1.352255	1.434341		6.1	20
Methylene chloride	A	50.00	55.79	0.25873	0.2886822		11.6	20
Naphthalene	A	50.00	50.54	1.32055	1.334825		1.1	20
Methyl t-Butyl Ether	A	50.00	49.14	0.6566478	0.6453316		-1.7	20
n-Propylbenzene	A	50.00	54.06	1.952788	2.111521		8.1	20
Styrene	A	50.00	56.05	1.453705	1.629671		12.1	20
1,1,2,2-Tetrachloroethane	A	50.00	52.26	0.5282625	0.552088	0.3	4.5	20
1,1,1,2-Tetrachloroethane	A	50.00	49.38	0.6175107	0.6098949		-1.2	20
Tetrachloroethene	A	50.00	52.91	0.697486	0.7381127		5.8	20
Toluene	A	50.00	54.48	1.188341	1.294851		9.0	20
1,2,3-Trichlorobenzene	A	50.00	47.61	0.5910333	0.5627993		-4.8	20
1,2,4-Trichlorobenzene	A	50.00	48.34	0.6569235	0.6351699		-3.3	20
1,1,2-Trichloroethane	A	50.00	53.60	0.422994	0.4534698		7.2	20
1,1,1-Trichloroethane	A	50.00	46.33	0.3997079	0.3704055		-7.3	20
Trichloroethene	A	50.00	51.60	0.2580332	0.2662737		3.2	20
Trichlorofluoromethane	A	50.00	47.15	0.4782557	0.4509914		-5.7	20
1,2,3-Trichloropropane	A	50.00	51.44	0.1869819	0.1923505		2.9	20
1,3,5-Trimethylbenzene	A	50.00	52.79	1.419219	1.498475		5.6	20
1,2,4-Trimethylbenzene	A	50.00	51.05	1.481291	1.512374		2.1	20

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1069001
Lab File ID:	0309ICV1.D	Calibration Date:	03/09/11 09:58
Sequence:	1C06802	Injection Date:	03/09/11
Lab Sample ID:	1C06802-ICV1	Injection Time:	14:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Vinyl chloride	A	50.00	54.21	0.2089894	0.2265927		8.4	20
m,p-Xylene	A	100.0	103.8	1.68977	1.754711		3.8	20
o-Xylene	A	50.00	53.59	1.81553	1.945979		7.2	20
Bromofluorobenzene	A	30.00	28.91	0.9538744	0.9192938		-3.6	20
Dibromofluoromethane	A	30.00	28.61	0.3659686	0.3490359		-4.6	20
1,2-Dichloroethane-d4	A	30.00	30.43	0.0671735	6.812743E-02		1.4	20
Toluene-d8	A	30.00	28.87	2.18463	2.102528		-3.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1069001
Lab File ID:	0309ICV3.D	Calibration Date:	03/09/11 09:58
Sequence:	1C06802	Injection Date:	03/09/11
Lab Sample ID:	1C06802-ICV3	Injection Time:	19:53

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acetone	A	100.0	88.45	0.0848173	7.502174E-02		-11.5	20
2-Butanone	A	100.0	99.44	9.651552E-02	9.597897E-02		-0.6	20
2-Hexanone	L	100.0	91.11	0.2948281	0.3015031		-8.9	20
4-Methyl-2-pentanone	A	100.0	101.2	0.1766269	0.1786702		1.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1067001
Lab File ID:	0311CC1E.D	Calibration Date:	03/07/11 12:53
Sequence:	1C07105	Injection Date:	03/11/11
Lab Sample ID:	1C07105-CCV1	Injection Time:	21:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Acetone	A	200.0	208.7	0.1123197	0.1171936		4.3	20	
Benzene	A	100.0	113.4	0.7397262	0.8392065		13.4	20	
Bromobenzene	A	100.0	104.7	0.5955635	0.6236516		4.7	20	
Bromochloromethane	A	100.0	109.0	0.1240907	0.1353322		9.1	20	
Bromodichloromethane	A	100.0	112.3	0.393441	0.441844		12.3	20	
Bromoform	A	100.0	108.1	0.3892677	0.4207973	0.1	8.1	20	
Bromomethane	A	100.0	103.6	0.2262604	0.2344934		3.6	20	
n-Butylbenzene	A	100.0	112.1	1.378201	1.545432		12.1	20	
2-Butanone	L	200.0	180.6	0.1085848	0.1133925		-9.7	20	
sec-Butylbenzene	A	100.0	110.8	1.844833	2.04367		10.8	20	
tert-Butylbenzene	A	100.0	101.7	1.620182	1.647533		1.7	20	
Carbon disulfide	A	100.0	107.8	0.6346432	0.6841477		7.8	20	
Carbon tetrachloride	A	100.0	116.6	0.3803403	0.4435636		16.6	20	
Chlorobenzene	A	100.0	97.58	1.095895	1.069423	0.3	-2.4	20	
Chloroethane	A	100.0	113.7	0.1608279	0.1828263		13.7	20	
Chloroform	A	100.0	105.9	0.5084763	0.5385694		5.9	20	
Chloromethane	A	100.0	108.2	0.2980831	0.3226532	0.1	8.2	20	
2-Chlorotoluene	A	100.0	106.0	1.523137	1.614112		6.0	20	
4-Chlorotoluene	A	100.0	105.2	1.587775	1.669977		5.2	20	
Dibromochloromethane	A	100.0	105.7	0.5274875	0.5574873		5.7	20	
1,2-Dibromo-3-chloropropane	L	100.0	95.57	0.1119632	0.1337992		-4.4	20	
1,2-Dibromoethane (EDB)	A	100.0	102.4	0.4534325	0.4644931		2.4	20	
Dibromomethane	A	100.0	114.4	0.1896182	0.2168985		14.4	20	
1,2-Dichlorobenzene	A	100.0	107.4	0.9705237	1.042644		7.4	20	
1,3-Dichlorobenzene	A	100.0	103.3	1.080832	1.11643		3.3	20	
1,4-Dichlorobenzene	A	100.0	98.20	1.153474	1.132691		-1.8	20	
Dichlorodifluoromethane	A	100.0	122.6	0.312813	0.3835369		22.6	20	*
1,1-Dichloroethane	A	100.0	111.1	0.4332253	0.4814423	0.1	11.1	20	
1,2-Dichloroethane	A	100.0	112.4	0.4958154	0.5575438		12.4	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1067001
Lab File ID:	0311CC1E.D	Calibration Date:	03/07/11 12:53
Sequence:	1C07105	Injection Date:	03/11/11
Lab Sample ID:	1C07105-CCV1	Injection Time:	21:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	113.6	0.1779832	0.2021538		13.6	20
cis-1,2-Dichloroethene	A	100.0	110.6	0.2226177	0.2462418		10.6	20
trans-1,2-Dichloroethene	A	100.0	110.8	0.2077027	0.2301534		10.8	20
1,2-Dichloropropane	L	100.0	100.7	0.2138675	0.241439		0.7	20
1,3-Dichloropropane	A	100.0	96.00	0.7045052	0.6763242		-4.0	20
2,2-Dichloropropane	A	100.0	109.2	0.387605	0.4232644		9.2	20
1,1-Dichloropropene	A	100.0	118.6	0.3169346	0.3759214		18.6	20
cis-1,3-Dichloropropene	A	100.0	116.6	0.3942719	0.4597552		16.6	20
trans-1,3-Dichloropropene	L	100.0	104.9	0.6325373	0.726941		4.9	20
Ethylbenzene	A	100.0	104.8	1.744482	1.829138		4.9	20
Hexachlorobutadiene	A	100.0	99.98	0.3208413	0.3207795		-0.02	20
2-Hexanone	L	200.0	182.0	0.314021	0.3382476		-9.0	20
Isopropylbenzene	A	100.0	107.3	1.42457	1.528896		7.3	20
p-Isopropyltoluene	A	100.0	112.0	1.23658	1.385624		12.1	20
Methylene chloride	A	100.0	110.5	0.2446354	0.2702911		10.5	20
Naphthalene	L	100.0	100.7	1.191261	1.450651		0.7	20
4-Methyl-2-pentanone	L	200.0	211.8	0.2224454	0.2841652		5.9	20
Methyl t-Butyl Ether	A	100.0	112.7	0.6052207	0.6822546		12.7	20
n-Propylbenzene	A	100.0	109.3	2.237126	2.444726		9.3	20
Styrene	L	100.0	107.2	0.9900017	1.157189		7.2	20
1,1,2,2-Tetrachloroethane	A	100.0	101.8	0.6316098	0.642671	0.3	1.8	20
1,1,1,2-Tetrachloroethane	A	100.0	99.17	0.4599538	0.4561424		-0.8	20
Tetrachloroethene	A	100.0	101.8	0.4471173	0.4551908		1.8	20
Toluene	A	100.0	102.2	0.898576	0.9188655		2.3	20
1,2,3-Trichlorobenzene	A	100.0	113.3	0.5261452	0.5963523		13.3	20
1,2,4-Trichlorobenzene	A	100.0	114.3	0.5974773	0.6828948		14.3	20
1,1,2-Trichloroethane	A	100.0	98.92	0.3365667	0.3329178		-1.1	20
1,1,1-Trichloroethane	A	100.0	113.1	0.4251429	0.4806991		13.1	20
Trichloroethene	A	100.0	113.4	0.2427349	0.2752624		13.4	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1067001
Lab File ID:	0311CC1E.D	Calibration Date:	03/07/11 12:53
Sequence:	1C07105	Injection Date:	03/11/11
Lab Sample ID:	1C07105-CCV1	Injection Time:	21:57

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	113.9	0.4960261	0.5650206		13.9	20
1,2,3-Trichloropropane	A	100.0	99.16	0.1614366	0.1600834		-0.8	20
1,3,5-Trimethylbenzene	A	100.0	109.9	1.570048	1.725759		9.9	20
1,2,4-Trimethylbenzene	A	100.0	108.6	1.587549	1.724941		8.7	20
Vinyl chloride	L	100.0	111.4	0.2947606	0.3710226		11.4	20
m,p-Xylene	A	200.0	207.3	1.366232	1.416177		3.7	20
o-Xylene	A	100.0	102.7	1.476455	1.515975		2.7	20
Bromofluorobenzene	A	30.00	28.57	0.8739651	0.8322769		-4.8	20
Dibromofluoromethane	A	30.00	30.26	0.366028	0.3692049		0.9	20
1,2-Dichloroethane-d4	A	30.00	30.98	0.0638648	6.594455E-02		3.3	20
Toluene-d8	A	30.00	27.45	1.740628	1.592618		-8.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1067001
Lab File ID:	0312CC1E.D	Calibration Date:	03/07/11 12:53
Sequence:	1C07304	Injection Date:	03/12/11
Lab Sample ID:	1C07304-CCV1	Injection Time:	22:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	195.5	0.1123197	0.1097732		-2.3	20
Benzene	A	100.0	110.3	0.7397262	0.8156449		10.3	20
Bromobenzene	A	100.0	106.7	0.5955635	0.6354149		6.7	20
Bromochloromethane	A	100.0	112.4	0.1240907	0.1394226		12.4	20
Bromodichloromethane	A	100.0	110.6	0.393441	0.4351331		10.6	20
Bromoform	A	100.0	111.8	0.3892677	0.4354089	0.1	11.9	20
Bromomethane	A	100.0	113.6	0.2262604	0.2571004		13.6	20
n-Butylbenzene	A	100.0	110.9	1.378201	1.528643		10.9	20
2-Butanone	L	200.0	183.4	0.1085848	0.1152093		-8.3	20
sec-Butylbenzene	A	100.0	111.1	1.844833	2.050112		11.1	20
tert-Butylbenzene	A	100.0	101.5	1.620182	1.645019		1.5	20
Carbon disulfide	A	100.0	110.9	0.6346432	0.7036296		10.9	20
Carbon tetrachloride	A	100.0	112.6	0.3803403	0.428226		12.6	20
Chlorobenzene	A	100.0	100.1	1.095895	1.097303	0.3	0.1	20
Chloroethane	A	100.0	117.4	0.1608279	0.188817		17.4	20
Chloroform	A	100.0	107.2	0.5084763	0.5449605		7.2	20
Chloromethane	A	100.0	109.8	0.2980831	0.3273368	0.1	9.8	20
2-Chlorotoluene	A	100.0	106.8	1.523137	1.62654		6.8	20
4-Chlorotoluene	A	100.0	109.6	1.587775	1.740364		9.6	20
Dibromochloromethane	A	100.0	109.4	0.5274875	0.5771754		9.4	20
1,2-Dibromo-3-chloropropane	L	100.0	95.28	0.1119632	0.133375		-4.7	20
1,2-Dibromoethane (EDB)	A	100.0	107.5	0.4534325	0.4875044		7.5	20
Dibromomethane	A	100.0	111.5	0.1896182	0.211401		11.5	20
1,2-Dichlorobenzene	A	100.0	108.7	0.9705237	1.055221		8.7	20
1,3-Dichlorobenzene	A	100.0	103.3	1.080832	1.116813		3.3	20
1,4-Dichlorobenzene	A	100.0	99.53	1.153474	1.148033		-0.5	20
Dichlorodifluoromethane	A	100.0	116.0	0.312813	0.3630054		16.0	20
1,1-Dichloroethane	A	100.0	112.7	0.4332253	0.4882555	0.1	12.7	20
1,2-Dichloroethane	A	100.0	107.7	0.4958154	0.5340757		7.7	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1067001
Lab File ID:	0312CC1E.D	Calibration Date:	03/07/11 12:53
Sequence:	1C07304	Injection Date:	03/12/11
Lab Sample ID:	1C07304-CCV1	Injection Time:	22:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,1-Dichloroethene	A	100.0	114.4	0.1779832	0.2036771		14.4	20
cis-1,2-Dichloroethene	A	100.0	114.4	0.2226177	0.2547053		14.4	20
trans-1,2-Dichloroethene	A	100.0	111.5	0.2077027	0.2315118		11.5	20
1,2-Dichloropropane	L	100.0	102.8	0.2138675	0.2465601		2.8	20
1,3-Dichloropropane	A	100.0	105.2	0.7045052	0.7412247		5.2	20
2,2-Dichloropropane	A	100.0	104.3	0.387605	0.404267		4.3	20
1,1-Dichloropropene	A	100.0	119.9	0.3169346	0.3800658		19.9	20
cis-1,3-Dichloropropene	A	100.0	115.2	0.3942719	0.4543582		15.2	20
trans-1,3-Dichloropropene	L	100.0	107.6	0.6325373	0.7453593		7.6	20
Ethylbenzene	A	100.0	112.2	1.744482	1.957923		12.2	20
Hexachlorobutadiene	A	100.0	99.17	0.3208413	0.3181911		-0.8	20
2-Hexanone	L	200.0	177.3	0.314021	0.329426		-11.4	20
Isopropylbenzene	A	100.0	114.0	1.42457	1.623307		14.0	20
p-Isopropyltoluene	A	100.0	110.7	1.23658	1.369158		10.7	20
Methylene chloride	A	100.0	111.3	0.2446354	0.2722688		11.3	20
Naphthalene	L	100.0	102.7	1.191261	1.479918		2.7	20
4-Methyl-2-pentanone	L	200.0	201.4	0.2224454	0.269835		0.7	20
Methyl t-Butyl Ether	A	100.0	113.3	0.6052207	0.6857317		13.3	20
n-Propylbenzene	A	100.0	111.8	2.237126	2.501098		11.8	20
Styrene	L	100.0	113.1	0.9900017	1.220285		13.1	20
1,1,2,2-Tetrachloroethane	A	100.0	99.06	0.6316098	0.6256796	0.3	-0.9	20
1,1,1,2-Tetrachloroethane	A	100.0	101.9	0.4599538	0.4688711		1.9	20
Tetrachloroethene	A	100.0	107.5	0.4471173	0.4806136		7.5	20
Toluene	A	100.0	108.9	0.898576	0.978794		8.9	20
1,2,3-Trichlorobenzene	A	100.0	114.9	0.5261452	0.6045228		14.9	20
1,2,4-Trichlorobenzene	A	100.0	115.0	0.5974773	0.6868365		15.0	20
1,1,2-Trichloroethane	A	100.0	104.7	0.3365667	0.3524982		4.7	20
1,1,1-Trichloroethane	A	100.0	110.0	0.4251429	0.4675937		10.0	20
Trichloroethene	A	100.0	112.9	0.2427349	0.2739704		12.9	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA5	Calibration:	1067001
Lab File ID:	0312CC1E.D	Calibration Date:	03/07/11 12:53
Sequence:	1C07304	Injection Date:	03/12/11
Lab Sample ID:	1C07304-CCV1	Injection Time:	22:26

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	110.5	0.4960261	0.548355		10.5	20
1,2,3-Trichloropropane	A	100.0	102.1	0.1614366	0.1648044		2.1	20
1,3,5-Trimethylbenzene	A	100.0	108.3	1.570048	1.701118		8.3	20
1,2,4-Trimethylbenzene	A	100.0	108.7	1.587549	1.72634		8.7	20
Vinyl chloride	L	100.0	111.9	0.2947606	0.3727884		11.9	20
m,p-Xylene	A	200.0	218.8	1.366232	1.494577		9.4	20
o-Xylene	A	100.0	106.4	1.476455	1.570713		6.4	20
Bromofluorobenzene	A	30.00	29.57	0.8739651	0.8613733		-1.4	20
Dibromofluoromethane	A	30.00	29.10	0.366028	0.355006		-3.0	20
1,2-Dichloroethane-d4	A	30.00	28.00	0.0638648	0.0595975		-6.7	20
Toluene-d8	A	30.00	29.00	1.740628	1.682934		-3.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1069001
Lab File ID:	0314CCV1.D	Calibration Date:	03/09/11 09:58
Sequence:	1C07405	Injection Date:	03/14/11
Lab Sample ID:	1C07405-CCV1	Injection Time:	07:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	200.0	235.2	0.0848173	0.0997258		17.6	20
Benzene	A	100.0	102.1	0.8025801	0.8192197		2.1	20
Bromobenzene	A	100.0	103.1	0.6794246	0.7003107		3.1	20
Bromochloromethane	A	100.0	106.4	0.1602837	0.1705599		6.4	20
Bromodichloromethane	A	100.0	112.3	0.364518	0.4092603		12.3	20
Bromoform	A	100.0	101.4	0.5935856	0.6019696	0.1	1.4	20
Bromomethane	L	100.0	80.23	0.1699542	0.1551869		-19.8	20
n-Butylbenzene	A	100.0	97.33	1.181477	1.149916		-2.7	20
2-Butanone	A	200.0	203.2	9.651552E-02	9.808179E-02		1.6	20
sec-Butylbenzene	A	100.0	97.02	1.619448	1.571221		-3.0	20
tert-Butylbenzene	A	100.0	98.88	1.17306	1.15996		-1.1	20
Carbon disulfide	A	100.0	101.6	0.721806	0.7336563		1.6	20
Carbon tetrachloride	A	100.0	111.2	0.3596776	0.3999944		11.2	20
Chlorobenzene	A	100.0	90.06	1.480946	1.333707	0.3	-9.9	20
Chloroethane	A	100.0	107.2	0.1488641	0.1595088		7.2	20
Chloroform	A	100.0	106.2	0.4963661	0.527121		6.2	20
Chloromethane	A	100.0	88.63	0.2233256	0.1979423	0.1	-11.4	20
2-Chlorotoluene	A	100.0	96.76	1.421969	1.375872		-3.2	20
4-Chlorotoluene	A	100.0	97.59	1.463852	1.428635		-2.4	20
Dibromochloromethane	A	100.0	100.4	0.7254594	0.7281555		0.4	20
1,2-Dibromo-3-chloropropane	A	100.0	108.2	0.142576	0.15424		8.2	20
1,2-Dibromoethane (EDB)	A	100.0	99.49	0.6070717	0.6039539		-0.5	20
Dibromomethane	A	100.0	108.6	0.1879579	0.20421		8.6	20
1,2-Dichlorobenzene	A	100.0	98.63	1.049979	1.035554		-1.4	20
1,3-Dichlorobenzene	A	100.0	100.9	1.0683	1.077936		0.9	20
1,4-Dichlorobenzene	A	100.0	97.49	1.162826	1.133654		-2.5	20
Dichlorodifluoromethane	L	100.0	107.5	0.2461584	0.2870367		7.5	20
1,1-Dichloroethane	A	100.0	101.6	0.4419345	0.4491689	0.1	1.6	20
1,2-Dichloroethane	A	100.0	114.9	0.3851065	0.4425421		14.9	20

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1069001
Lab File ID:	0314CCV1.D	Calibration Date:	03/09/11 09:58
Sequence:	1C07405	Injection Date:	03/14/11
Lab Sample ID:	1C07405-CCV1	Injection Time:	07:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
1,1-Dichloroethene	A	100.0	100.1	0.2207433	0.2209683		0.1	20	
cis-1,2-Dichloroethene	A	100.0	99.24	0.2718447	0.2697908		-0.8	20	
trans-1,2-Dichloroethene	A	100.0	99.17	0.2531012	0.2509921		-0.8	20	
1,2-Dichloropropane	A	100.0	103.4	0.2105928	0.2177558		3.4	20	
1,3-Dichloropropane	A	100.0	94.92	0.8005728	0.7599114		-5.1	20	
2,2-Dichloropropane	A	100.0	110.9	0.3651412	0.4050038		10.9	20	
1,1-Dichloropropene	A	100.0	108.8	0.3085394	0.3356677		8.8	20	
cis-1,3-Dichloropropene	A	100.0	112.9	0.3638251	0.410896		12.9	20	
trans-1,3-Dichloropropene	A	100.0	104.9	0.7781098	0.8160572		4.9	20	
Ethylbenzene	A	100.0	94.18	2.215255	2.086375		-5.8	20	
Hexachlorobutadiene	A	100.0	82.24	0.3001928	0.246889		-17.8	20	
2-Hexanone	L	200.0	208.0	0.2948281	0.345013		4.0	20	
Isopropylbenzene	A	100.0	93.17	1.777066	1.655707		-6.8	20	
p-Isopropyltoluene	A	100.0	94.39	1.352255	1.276365		-5.6	20	
Methylene chloride	A	100.0	108.7	0.25873	0.2811994		8.7	20	
Naphthalene	A	100.0	98.23	1.32055	1.297187		-1.8	20	
4-Methyl-2-pentanone	A	200.0	259.6	0.1766269	0.2292322		29.8	20	*
Methyl t-Butyl Ether	A	100.0	110.4	0.6566478	0.7248556		10.4	20	
n-Propylbenzene	A	100.0	99.83	1.952788	1.949551		-0.2	20	
Styrene	A	100.0	94.04	1.453705	1.367013		-6.0	20	
1,1,2,2-Tetrachloroethane	A	100.0	100.4	0.5282625	0.5301918	0.3	0.4	20	
1,1,1,2-Tetrachloroethane	A	100.0	95.38	0.6175107	0.5889603		-4.6	20	
Tetrachloroethene	A	100.0	90.21	0.697486	0.6291813		-9.8	20	
Toluene	A	100.0	93.78	1.188341	1.114484		-6.2	20	
1,2,3-Trichlorobenzene	A	100.0	92.38	0.5910333	0.5460128		-7.6	20	
1,2,4-Trichlorobenzene	A	100.0	92.30	0.6569235	0.6063478		-7.7	20	
1,1,2-Trichloroethane	A	100.0	93.79	0.422994	0.3967281		-6.2	20	
1,1,1-Trichloroethane	A	100.0	110.5	0.3997079	0.4417308		10.5	20	
Trichloroethene	A	100.0	101.2	0.2580332	0.2611537		1.2	20	

CONTINUING CALIBRATION CHECK

SW8260B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-VOA4	Calibration:	1069001
Lab File ID:	0314CCV1.D	Calibration Date:	03/09/11 09:58
Sequence:	1C07405	Injection Date:	03/14/11
Lab Sample ID:	1C07405-CCV1	Injection Time:	07:29

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Trichlorofluoromethane	A	100.0	109.9	0.4782557	0.5255436		9.9	20
1,2,3-Trichloropropane	A	100.0	102.2	0.1869819	0.1910286		2.2	20
1,3,5-Trimethylbenzene	A	100.0	103.0	1.419219	1.462207		3.0	20
1,2,4-Trimethylbenzene	A	100.0	102.6	1.481291	1.520086		2.6	20
Vinyl chloride	A	100.0	90.87	0.2089894	0.189919		-9.1	20
m,p-Xylene	A	200.0	188.8	1.68977	1.594773		-5.6	20
o-Xylene	A	100.0	93.14	1.81553	1.690915		-6.9	20
Bromofluorobenzene	A	30.00	29.50	0.9538744	0.938123		-1.7	20
Dibromofluoromethane	A	30.00	31.56	0.3659686	0.3849927		5.2	20
1,2-Dichloroethane-d4	A	30.00	30.66	0.0671735	6.865769E-02		2.2	20
Toluene-d8	A	30.00	28.65	2.18463	2.08664		-4.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1C11016-BLK1 File ID: 0311BL1E.D

Sampled: Prepared: Analyzed: 03/11/11 23:55

Solids: Preparation: 5030B Dilution:

Batch: 1C11016 Sequence: 1C07105 Calibration: 1067001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	X, U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1C11016-BLK1 File ID: 0311BL1E.D

Sampled: Prepared: Analyzed: 03/11/11 23:55

Solids: Preparation: 5030B Dilution:

Batch: 1C11016 Sequence: 1C07105 Calibration: 1067001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.98	103	75 - 120	
Dibromofluoromethane	30.00	30.84	103	85 - 115	
1,2-Dichloroethane-d4	30.00	31.49	105	70 - 120	
Toluene-d8	30.00	32.55	108	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1C11016-BS1 File ID: 0311LS1E.D

Sampled: Prepared: Analyzed: 03/11/11 22:27

Solids: Preparation: 5030B Dilution:

Batch: 1C11016 Sequence: 1C07105 Calibration: 1067001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	96.0	2.50	5.00	10.0	
71-43-2	Benzene	57.3	0.250	0.500	1.00	
108-86-1	Bromobenzene	52.6	0.250	0.500	1.00	
74-97-5	Bromochloromethane	55.1	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	55.8	0.250	0.500	1.00	
75-25-2	Bromoform	54.4	0.250	0.500	1.00	
74-83-9	Bromomethane	52.1	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	56.2	0.250	0.500	1.00	
78-93-3	2-Butanone	90.5	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	55.8	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	53.0	0.250	0.500	1.00	
75-15-0	Carbon disulfide	58.9	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	53.6	0.250	0.500	1.00	
108-90-7	Chlorobenzene	52.6	0.250	0.500	1.00	
75-00-3	Chloroethane	57.4	0.500	1.00	2.00	
67-66-3	Chloroform	52.3	0.250	0.500	1.00	
74-87-3	Chloromethane	59.9	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	53.1	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	56.6	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	56.5	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	46.3	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	54.1	0.250	0.500	1.00	
74-95-3	Dibromomethane	54.1	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	53.9	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	50.2	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	50.3	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	67.7	0.500	1.00	2.00	X
75-34-3	1,1-Dichloroethane	56.0	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	51.9	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	60.1	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	57.7	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	56.6	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	50.0	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	52.4	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	51.1	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	56.9	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	52.2	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	59.7	0.250	0.500	1.00	
100-41-4	Ethylbenzene	56.9	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	49.0	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1C11016-BS1 File ID: 0311LS1E.D

Sampled: Prepared: Analyzed: 03/11/11 22:27

Solids: Preparation: 5030B Dilution:

Batch: 1C11016 Sequence: 1C07105 Calibration: 1067001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	97.7	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	60.3	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	55.2	0.250	0.500	1.00	
75-09-2	Methylene chloride	56.1	0.500	1.00	2.00	
91-20-3	Naphthalene	46.8	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	102	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	53.4	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	56.7	0.250	0.500	1.00	
100-42-5	Styrene	57.2	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	51.2	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	54.5	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	55.3	0.250	0.500	1.00	
108-88-3	Toluene	54.7	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	51.5	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	51.7	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	52.7	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	52.9	0.250	0.500	1.00	
79-01-6	Trichloroethene	54.0	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	53.0	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	52.4	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	55.6	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	56.5	0.250	0.500	1.00	
75-01-4	Vinyl chloride	53.2	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	112	0.500	1.00	2.00	
95-47-6	o-Xylene	56.6	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.65	102	75 - 120	
Dibromofluoromethane	30.00	29.56	98.5	85 - 115	
1,2-Dichloroethane-d4	30.00	31.21	104	70 - 120	
Toluene-d8	30.00	31.02	103	85 - 120	

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1C12006-BLK1 File ID: 0312BL1E.D

Sampled: Prepared: Analyzed: 03/13/11 00:24

Solids: Preparation: 5030B Dilution:

Batch: 1C12006 Sequence: 1C07304 Calibration: 1067001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene		0.250	0.500	1.00	U

ANALYSIS DATA SHEET

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Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1C12006-BLK1 File ID: 0312BL1E.D

Sampled: Prepared: Analyzed: 03/13/11 00:24

Solids: Preparation: 5030B Dilution:

Batch: 1C12006 Sequence: 1C07304 Calibration: 1067001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	Q, U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	31.83	106	75 - 120	
Dibromofluoromethane	30.00	31.93	106	85 - 115	
1,2-Dichloroethane-d4	30.00	30.70	102	70 - 120	
Toluene-d8	30.00	31.96	107	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1C12006-BS1 File ID: 0312LS1E.D

Sampled: Prepared: Analyzed: 03/12/11 22:56

Solids: Preparation: 5030B Dilution:

Batch: 1C12006 Sequence: 1C07304 Calibration: 1067001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	92.2	2.50	5.00	10.0	
71-43-2	Benzene	57.2	0.250	0.500	1.00	
108-86-1	Bromobenzene	54.0	0.250	0.500	1.00	
74-97-5	Bromochloromethane	56.1	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	55.4	0.250	0.500	1.00	
75-25-2	Bromoform	54.7	0.250	0.500	1.00	
74-83-9	Bromomethane	55.0	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	57.2	0.250	0.500	1.00	
78-93-3	2-Butanone	84.4	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	57.1	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	52.1	0.250	0.500	1.00	
75-15-0	Carbon disulfide	59.4	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	53.0	0.250	0.500	1.00	
108-90-7	Chlorobenzene	53.0	0.250	0.500	1.00	
75-00-3	Chloroethane	58.3	0.500	1.00	2.00	
67-66-3	Chloroform	50.8	0.250	0.500	1.00	
74-87-3	Chloromethane	61.2	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	56.0	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	56.7	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	57.6	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	47.6	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	54.9	0.250	0.500	1.00	
74-95-3	Dibromomethane	54.1	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	55.4	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	51.0	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	52.2	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	65.3	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	54.0	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	51.6	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	63.5	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	55.8	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	56.2	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	51.8	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	53.7	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	47.7	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	59.5	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	53.3	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	59.2	0.250	0.500	1.00	
100-41-4	Ethylbenzene	57.2	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	51.7	0.250	0.500	1.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1C12006-BS1 File ID: 0312LS1E.D

Sampled: Prepared: Analyzed: 03/12/11 22:56

Solids: Preparation: 5030B Dilution:

Batch: 1C12006 Sequence: 1C07304 Calibration: 1067001 Instrument: MS-VOA5

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	91.4	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	63.3	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	57.7	0.250	0.500	1.00	
75-09-2	Methylene chloride	51.3	0.500	1.00	2.00	
91-20-3	Naphthalene	47.6	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	96.6	1.25	2.50	5.00	
1634-04-4	Methyl t-Butyl Ether	54.6	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	57.6	0.250	0.500	1.00	
100-42-5	Styrene	56.5	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	51.7	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	53.1	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	55.6	0.250	0.500	1.00	
108-88-3	Toluene	55.5	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	53.4	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	55.1	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	54.0	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	51.7	0.250	0.500	1.00	
79-01-6	Trichloroethene	54.3	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	52.4	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	53.7	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	57.0	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	58.1	0.250	0.500	1.00	
75-01-4	Vinyl chloride	54.1	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	113	0.500	1.00	2.00	
95-47-6	o-Xylene	56.5	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.90	103	75 - 120	
Dibromofluoromethane	30.00	29.43	98.1	85 - 115	
1,2-Dichloroethane-d4	30.00	29.05	96.8	70 - 120	
Toluene-d8	30.00	30.64	102	85 - 120	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1C14012-BLK1 File ID: 0314BL1.D

Sampled: Prepared: Analyzed: 03/14/11 09:39

Solids: Preparation: 5030B Dilution:

Batch: 1C14012 Sequence: 1C07405 Calibration: 1069001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone		2.50	5.00	10.0	U
71-43-2	Benzene		0.250	0.500	1.00	U
108-86-1	Bromobenzene		0.250	0.500	1.00	U
74-97-5	Bromochloromethane		0.250	0.500	1.00	U
75-27-4	Bromodichloromethane		0.250	0.500	1.00	U
75-25-2	Bromoform		0.250	0.500	1.00	U
74-83-9	Bromomethane		0.500	1.00	2.00	U
104-51-8	n-Butylbenzene		0.250	0.500	1.00	U
78-93-3	2-Butanone		2.50	5.00	10.0	U
135-98-8	sec-Butylbenzene		0.250	0.500	1.00	U
98-06-6	tert-Butylbenzene		0.250	0.500	1.00	U
75-15-0	Carbon disulfide		0.250	0.500	1.00	U
56-23-5	Carbon tetrachloride		0.250	0.500	1.00	U
108-90-7	Chlorobenzene		0.250	0.500	1.00	U
75-00-3	Chloroethane		0.500	1.00	2.00	U
67-66-3	Chloroform		0.250	0.500	1.00	U
74-87-3	Chloromethane		0.250	0.500	1.00	U
95-49-8	2-Chlorotoluene		0.250	0.500	1.00	U
106-43-4	4-Chlorotoluene		0.250	0.500	1.00	U
124-48-1	Dibromochloromethane		0.250	0.500	1.00	U
96-12-8	1,2-Dibromo-3-chloropropane		0.500	1.00	2.00	U
106-93-4	1,2-Dibromoethane (EDB)		0.250	0.500	1.00	U
74-95-3	Dibromomethane		0.250	0.500	1.00	U
95-50-1	1,2-Dichlorobenzene		0.250	0.500	1.00	U
541-73-1	1,3-Dichlorobenzene		0.250	0.500	1.00	U
106-46-7	1,4-Dichlorobenzene		0.250	0.500	1.00	U
75-71-8	Dichlorodifluoromethane		0.500	1.00	2.00	U
75-34-3	1,1-Dichloroethane		0.250	0.500	1.00	U
107-06-2	1,2-Dichloroethane		0.250	0.500	1.00	U
75-35-4	1,1-Dichloroethene		0.250	0.500	1.00	U
156-59-2	cis-1,2-Dichloroethene		0.250	0.500	1.00	U
156-60-5	trans-1,2-Dichloroethene		0.250	0.500	1.00	U
78-87-5	1,2-Dichloropropane		0.250	0.500	1.00	U
142-28-9	1,3-Dichloropropane		0.250	0.500	1.00	U
594-20-7	2,2-Dichloropropane		0.250	0.500	1.00	U
563-58-6	1,1-Dichloropropene		0.250	0.500	1.00	U
10061-01-5	cis-1,3-Dichloropropene		0.250	0.500	1.00	U
10061-02-6	trans-1,3-Dichloropropene		0.250	0.500	1.00	U
100-41-4	Ethylbenzene		0.250	0.500	1.00	U
87-68-3	Hexachlorobutadiene	0.371	0.250	0.500	1.00	J

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1C14012-BLK1 File ID: 0314BL1.D

Sampled: Prepared: Analyzed: 03/14/11 09:39

Solids: Preparation: 5030B Dilution:

Batch: 1C14012 Sequence: 1C07405 Calibration: 1069001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone		1.25	2.50	5.00	U
98-82-8	Isopropylbenzene		0.250	0.500	1.00	U
99-87-6	p-Isopropyltoluene		0.250	0.500	1.00	U
75-09-2	Methylene chloride		0.500	1.00	2.00	U
91-20-3	Naphthalene		0.250	0.500	1.00	U
108-10-1	4-Methyl-2-pentanone		1.25	2.50	5.00	X, U
1634-04-4	Methyl t-Butyl Ether		0.250	0.500	1.00	U
103-65-1	n-Propylbenzene		0.250	0.500	1.00	U
100-42-5	Styrene		0.250	0.500	1.00	U
79-34-5	1,1,2,2-Tetrachloroethane		0.250	0.500	1.00	U
630-20-6	1,1,1,2-Tetrachloroethane		0.250	0.500	1.00	U
127-18-4	Tetrachloroethene		0.250	0.500	1.00	U
108-88-3	Toluene		0.250	0.500	1.00	U
87-61-6	1,2,3-Trichlorobenzene		0.250	0.500	1.00	U
120-82-1	1,2,4-Trichlorobenzene		0.250	0.500	1.00	U
79-00-5	1,1,2-Trichloroethane		0.250	0.500	1.00	U
71-55-6	1,1,1-Trichloroethane		0.250	0.500	1.00	U
79-01-6	Trichloroethene		0.250	0.500	1.00	U
75-69-4	Trichlorofluoromethane		0.500	1.00	2.00	U
96-18-4	1,2,3-Trichloropropane		0.500	1.00	2.00	U
108-67-8	1,3,5-Trimethylbenzene		0.250	0.500	1.00	U
95-63-6	1,2,4-Trimethylbenzene		0.250	0.500	1.00	U
75-01-4	Vinyl chloride		0.250	0.500	1.00	U
108-38-3/106-42-	m,p-Xylene		0.500	1.00	2.00	U
95-47-6	o-Xylene		0.250	0.500	1.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	30.77	103	75 - 120	
Dibromofluoromethane	30.00	31.91	106	85 - 115	
1,2-Dichloroethane-d4	30.00	29.86	99.5	70 - 120	
Toluene-d8	30.00	30.26	101	85 - 120	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1C14012-BS1 File ID: 0314LS1.D

Sampled: Prepared: Analyzed: 03/14/11 08:11

Solids: Preparation: 5030B Dilution:

Batch: 1C14012 Sequence: 1C07405 Calibration: 1069001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
67-64-1	Acetone	101	2.50	5.00	10.0	
71-43-2	Benzene	48.2	0.250	0.500	1.00	
108-86-1	Bromobenzene	50.6	0.250	0.500	1.00	
74-97-5	Bromochloromethane	53.4	0.250	0.500	1.00	
75-27-4	Bromodichloromethane	52.9	0.250	0.500	1.00	
75-25-2	Bromoform	51.6	0.250	0.500	1.00	
74-83-9	Bromomethane	37.7	0.500	1.00	2.00	
104-51-8	n-Butylbenzene	48.3	0.250	0.500	1.00	
78-93-3	2-Butanone	94.6	2.50	5.00	10.0	
135-98-8	sec-Butylbenzene	48.8	0.250	0.500	1.00	
98-06-6	tert-Butylbenzene	48.5	0.250	0.500	1.00	
75-15-0	Carbon disulfide	49.9	0.250	0.500	1.00	
56-23-5	Carbon tetrachloride	49.6	0.250	0.500	1.00	
108-90-7	Chlorobenzene	49.3	0.250	0.500	1.00	
75-00-3	Chloroethane	53.1	0.500	1.00	2.00	
67-66-3	Chloroform	50.3	0.250	0.500	1.00	
74-87-3	Chloromethane	44.8	0.250	0.500	1.00	
95-49-8	2-Chlorotoluene	46.8	0.250	0.500	1.00	
106-43-4	4-Chlorotoluene	48.0	0.250	0.500	1.00	
124-48-1	Dibromochloromethane	54.1	0.250	0.500	1.00	
96-12-8	1,2-Dibromo-3-chloropropane	46.9	0.500	1.00	2.00	
106-93-4	1,2-Dibromoethane (EDB)	53.0	0.250	0.500	1.00	
74-95-3	Dibromomethane	50.3	0.250	0.500	1.00	
95-50-1	1,2-Dichlorobenzene	49.3	0.250	0.500	1.00	
541-73-1	1,3-Dichlorobenzene	49.8	0.250	0.500	1.00	
106-46-7	1,4-Dichlorobenzene	48.4	0.250	0.500	1.00	
75-71-8	Dichlorodifluoromethane	53.3	0.500	1.00	2.00	
75-34-3	1,1-Dichloroethane	51.6	0.250	0.500	1.00	
107-06-2	1,2-Dichloroethane	51.3	0.250	0.500	1.00	
75-35-4	1,1-Dichloroethene	51.5	0.250	0.500	1.00	
156-59-2	cis-1,2-Dichloroethene	50.1	0.250	0.500	1.00	
156-60-5	trans-1,2-Dichloroethene	51.7	0.250	0.500	1.00	
78-87-5	1,2-Dichloropropane	50.4	0.250	0.500	1.00	
142-28-9	1,3-Dichloropropane	47.8	0.250	0.500	1.00	
594-20-7	2,2-Dichloropropane	50.4	0.250	0.500	1.00	
563-58-6	1,1-Dichloropropene	48.9	0.250	0.500	1.00	
10061-01-5	cis-1,3-Dichloropropene	49.1	0.250	0.500	1.00	
10061-02-6	trans-1,3-Dichloropropene	59.1	0.250	0.500	1.00	
100-41-4	Ethylbenzene	50.4	0.250	0.500	1.00	
87-68-3	Hexachlorobutadiene	45.2	0.250	0.500	1.00	B

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1C14012-BS1 File ID: 0314LS1.D

Sampled: Prepared: Analyzed: 03/14/11 08:11

Solids: Preparation: 5030B Dilution:

Batch: 1C14012 Sequence: 1C07405 Calibration: 1069001 Instrument: MS-VOA4

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
591-78-6	2-Hexanone	108	1.25	2.50	5.00	
98-82-8	Isopropylbenzene	51.3	0.250	0.500	1.00	
99-87-6	p-Isopropyltoluene	48.0	0.250	0.500	1.00	
75-09-2	Methylene chloride	55.7	0.500	1.00	2.00	
91-20-3	Naphthalene	46.4	0.250	0.500	1.00	
108-10-1	4-Methyl-2-pentanone	116	1.25	2.50	5.00	X
1634-04-4	Methyl t-Butyl Ether	52.1	0.250	0.500	1.00	
103-65-1	n-Propylbenzene	49.6	0.250	0.500	1.00	
100-42-5	Styrene	51.7	0.250	0.500	1.00	
79-34-5	1,1,2,2-Tetrachloroethane	48.0	0.250	0.500	1.00	
630-20-6	1,1,1,2-Tetrachloroethane	50.9	0.250	0.500	1.00	
127-18-4	Tetrachloroethene	48.1	0.250	0.500	1.00	
108-88-3	Toluene	50.8	0.250	0.500	1.00	
87-61-6	1,2,3-Trichlorobenzene	43.5	0.250	0.500	1.00	
120-82-1	1,2,4-Trichlorobenzene	46.2	0.250	0.500	1.00	
79-00-5	1,1,2-Trichloroethane	49.6	0.250	0.500	1.00	
71-55-6	1,1,1-Trichloroethane	49.9	0.250	0.500	1.00	
79-01-6	Trichloroethene	47.5	0.250	0.500	1.00	
75-69-4	Trichlorofluoromethane	48.6	0.500	1.00	2.00	
96-18-4	1,2,3-Trichloropropane	49.9	0.500	1.00	2.00	
108-67-8	1,3,5-Trimethylbenzene	51.3	0.250	0.500	1.00	
95-63-6	1,2,4-Trimethylbenzene	51.4	0.250	0.500	1.00	
75-01-4	Vinyl chloride	46.2	0.250	0.500	1.00	
108-38-3/106-42-	m,p-Xylene	102	0.500	1.00	2.00	
95-47-6	o-Xylene	49.9	0.250	0.500	1.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	30.00	29.84	99.5	75 - 120	
Dibromofluoromethane	30.00	30.41	101	85 - 115	
1,2-Dichloroethane-d4	30.00	28.87	96.2	70 - 120	
Toluene-d8	30.00	30.71	102	85 - 120	

HOLDING TIME SUMMARY

SW8260B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_006

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0016	03/08/11 11:05	03/09/11 08:45	03/11/11 00:00	N/A	14.00	03/12/11 06:57	3.74	14.00	
GW8019-TB	03/08/11 08:00	03/09/11 08:45	03/11/11 00:00	N/A	14.00	03/12/11 01:56	3.71	14.00	
2819RC	03/09/11 13:27	03/10/11 08:45	03/12/11 00:00	N/A	14.00	03/13/11 02:25	3.46	14.00	
GW0018	03/09/11 11:00	03/10/11 08:45	03/12/11 00:00	N/A	14.00	03/13/11 02:55	3.58	14.00	
GW8020-TB	03/09/11 08:00	03/10/11 08:45	03/14/11 00:00	N/A	14.00	03/14/11 10:09	5.05	14.00	

Data for SW8270C Forms

ANALYSIS DATA SHEET

2819RC

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1103096-01 File ID: 0309601.D

Sampled: 03/09/11 13:27 Prepared: 03/11/11 10:45 Analyzed: 03/11/11 22:35

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 1C10022 Sequence: 1C07307 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.18	2.36	4.72	Y, U
83-32-9	Acenaphthene		1.18	2.36	4.72	U
208-96-8	Acenaphthylene		1.18	2.36	4.72	U
98-86-2	Acetophenone		1.18	2.36	4.72	U
120-12-7	Anthracene		1.18	2.36	4.72	U
1912-24-9	Atrazine		1.18	2.36	4.72	U
100-52-7	Benzaldehyde		1.18	2.36	4.72	Y, U
92-87-5	Benzidine		11.8	23.6	47.2	Y, U
56-55-3	Benzo(a)anthracene		1.18	2.36	4.72	U
50-32-8	Benzo(a)pyrene		1.18	2.36	4.72	U
205-99-2	Benzo(b)fluoranthene		1.18	2.36	4.72	U
191-24-2	Benzo(g,h,i)perylene		1.18	2.36	4.72	U
65-85-0	Benzoic acid		11.8	23.6	47.2	U
207-08-9	Benzo(k)fluoranthene		1.18	2.36	4.72	U
92-52-4	1,1-Biphenyl		1.18	2.36	4.72	U
101-55-3	4-Bromophenyl-phenylether		1.18	2.36	4.72	U
85-68-7	Butylbenzylphthalate		1.18	2.36	4.72	U
105-60-2	Caprolactam		1.18	2.36	4.72	Q, U
86-74-8	Carbazole		1.18	2.36	4.72	U
59-50-7	4-Chloro-3-methylphenol		1.18	2.36	4.72	U
106-47-8	4-Chloroaniline		1.18	2.36	4.72	U
111-91-1	Bis(2-chloroethoxy)methane		1.18	2.36	4.72	Q, U
111-44-4	Bis(2-chloroethyl)ether		1.18	2.36	4.72	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.18	2.36	4.72	U
91-58-7	2-Chloronaphthalene		1.18	2.36	4.72	U
95-57-8	2-Chlorophenol		1.18	2.36	4.72	U
7005-72-3	4-Chlorophenyl phenyl ether		1.18	2.36	4.72	U
218-01-9	Chrysene		1.18	2.36	4.72	U
53-70-3	Dibenz(a,h)anthracene		1.18	2.36	4.72	U
132-64-9	Dibenzofuran		1.18	2.36	4.72	U
84-74-2	Di-n-butylphthalate		1.18	2.36	4.72	U
120-83-2	2,4-Dichlorophenol		1.18	2.36	4.72	U
84-66-2	Diethylphthalate		1.18	2.36	4.72	U
105-67-9	2,4-Dimethylphenol		4.72	9.43	18.9	U
131-11-3	Dimethyl phthalate		1.18	2.36	4.72	U
534-52-1	4,6-Dinitro-2-methylphenol		4.72	9.43	18.9	X, U
51-28-5	2,4-Dinitrophenol		11.8	23.6	47.2	X, U
121-14-2	2,4-Dinitrotoluene		1.18	2.36	4.72	U
606-20-2	2,6-Dinitrotoluene		1.18	2.36	4.72	U
117-84-0	Di-n-octylphthalate		1.18	2.36	4.72	U

ANALYSIS DATA SHEET

2819RC

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Water Laboratory ID: 1103096-01 File ID: 0309601.D

Sampled: 03/09/11 13:27 Prepared: 03/11/11 10:45 Analyzed: 03/11/11 22:35

Solids: Preparation: EXT_3510 Dilution: 1

Batch: 1C10022 Sequence: 1C07307 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.18	2.36	4.72	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.18	2.36	4.72	U
206-44-0	Fluoranthene		1.18	2.36	4.72	U
86-73-7	Fluorene		1.18	2.36	4.72	U
118-74-1	Hexachlorobenzene		1.18	2.36	4.72	U
87-68-3	Hexachlorobutadiene		1.18	2.36	4.72	U
77-47-4	Hexachlorocyclopentadiene		1.18	2.36	4.72	U
67-72-1	Hexachloroethane		1.18	2.36	4.72	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.18	2.36	4.72	U
78-59-1	Isophorone		1.18	2.36	4.72	U
90-12-0	1-Methylnaphthalene		1.18	2.36	4.72	U
91-57-6	2-Methylnaphthalene		1.18	2.36	4.72	U
95-48-7	2-Methylphenol		1.18	2.36	4.72	U
100-01-6	4-Nitroaniline		4.72	9.43	18.9	X, U
99-09-2	3-Nitroaniline		4.72	9.43	18.9	U
88-74-4	2-Nitroaniline		4.72	9.43	18.9	U
98-95-3	Nitrobenzene		1.18	2.36	4.72	U
100-02-7	4-Nitrophenol		4.72	9.43	18.9	U
88-75-5	2-Nitrophenol		1.18	2.36	4.72	U
86-30-6	N-Nitrosodiphenylamine		1.18	2.36	4.72	U
621-64-7	N-Nitroso-di-n-propylamine		1.18	2.36	4.72	Y, U
87-86-5	Pentachlorophenol		4.72	9.43	18.9	U
85-01-8	Phenanthrene		1.18	2.36	4.72	U
108-95-2	Phenol		1.18	2.36	4.72	U
129-00-0	Pyrene		1.18	2.36	4.72	U
88-06-2	2,4,6-Trichlorophenol		1.18	2.36	4.72	U
95-95-4	2,4,5-Trichlorophenol		1.18	2.36	4.72	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	47.17	39.57	83.9	50 - 110	
2-Fluorophenol	94.34	29.43	31.2	20 - 110	
Nitrobenzene-d5	47.17	46.75	99.1	40 - 110	
Phenol-d6	94.34	19.08	20.2	10 - 110	
Terphenyl-d14	47.17	50.90	108	50 - 135	
2,4,6-Tribromophenol	94.34	79.79	84.6	40 - 125	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C07307
Instrument: MS-BNA1
Calibration: 1032006

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C07307-CCV1) ug/mL				Lab File ID: SEQ-CCV1.D		Analyzed: 03/11/11 19:23		
2-Fluorobiphenyl	50.00	85.7	80 - 120	8.649	8.649	0.0000	+/-0.500	
2-Fluorophenol	100.0	97.1	80 - 120	4.366	4.366	0.0000	+/-0.500	
Nitrobenzene-d5	50.00	94.3	80 - 120	6.492	6.492	0.0000	+/-0.500	
Phenol-d6	100.0	88.8	80 - 120	5.454	5.454	0.0000	+/-0.500	
Terphenyl-d14	50.00	114	80 - 120	13.204	13.204	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	109	80 - 120	10.412	10.412	0.0000	+/-0.500	
Blank (1C10022-BLK1) ug/L				Lab File ID: C10022B1.D		Analyzed: 03/11/11 20:41		
2-Fluorobiphenyl	50.00	78.2	50 - 110	8.642	8.649	-0.0070	+/-0.500	
2-Fluorophenol	100.0	43.0	20 - 110	4.358	4.366	-0.0080	+/-0.500	
Nitrobenzene-d5	50.00	97.6	40 - 110	6.48	6.492	-0.0120	+/-0.500	
Phenol-d6	100.0	25.4	10 - 110	5.439	5.454	-0.0150	+/-0.500	
Terphenyl-d14	50.00	101	50 - 135	13.204	13.204	0.0000	+/-0.500	
2,4,6-Tribromophenol	100.0	92.7	40 - 125	10.401	10.412	-0.0110	+/-0.500	
LCS (1C10022-BS1) ug/L				Lab File ID: C10022L1.D		Analyzed: 03/11/11 21:10		
2-Fluorobiphenyl	50.00	84.7	50 - 110	8.647	8.649	-0.0020	+/-0.500	
2-Fluorophenol	100.0	44.3	20 - 110	4.367	4.366	0.0010	+/-0.500	
Nitrobenzene-d5	50.00	95.4	40 - 110	6.486	6.492	-0.0060	+/-0.500	
Phenol-d6	100.0	26.0	10 - 110	5.449	5.454	-0.0050	+/-0.500	
Terphenyl-d14	50.00	112	50 - 135	13.203	13.204	-0.0010	+/-0.500	
2,4,6-Tribromophenol	100.0	95.1	40 - 125	10.409	10.412	-0.0030	+/-0.500	
2819RC (1103096-01) ug/L				Lab File ID: 0309601.D		Analyzed: 03/11/11 22:35		
2-Fluorobiphenyl	47.17	83.9	50 - 110	8.643	8.649	-0.0060	+/-0.500	
2-Fluorophenol	94.34	31.2	20 - 110	4.362	4.366	-0.0040	+/-0.500	
Nitrobenzene-d5	47.17	99.1	40 - 110	6.486	6.492	-0.0060	+/-0.500	
Phenol-d6	94.34	20.2	10 - 110	5.437	5.454	-0.0170	+/-0.500	
Terphenyl-d14	47.17	108	50 - 135	13.206	13.204	0.0020	+/-0.500	
2,4,6-Tribromophenol	94.34	84.6	40 - 125	10.401	10.412	-0.0110	+/-0.500	

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C10022	Laboratory ID:	1C10022-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
3,3'-Dichlorobenzidine	50.00	34.26	68.5	20 - 110
Acenaphthene	50.00	40.96	81.9	45 - 110
Acenaphthylene	50.00	35.92	71.8	50 - 105
Acetophenone	50.00	41.92	83.8	50 - 110
Anthracene	50.00	47.94	95.9	55 - 110
Atrazine	50.00	50.27	101	70 - 115
Benzaldehyde	50.00	42.06	84.1	10 - 180
Benzidine	50.00	50.0 U	0	0 - 200
Benzo(a)anthracene	50.00	46.08	92.2	55 - 110
Benzo(a)pyrene	50.00	36.31	72.6	55 - 110
Benzo(b)fluoranthene	50.00	47.41	94.8	45 - 120
Benzo(g,h,i)perylene	50.00	39.69	79.4	40 - 125
Benzoic acid	50.00	14.52	29.0	0 - 125
Benzo(k)fluoranthene	50.00	45.62	91.2	45 - 125
1,1-Biphenyl	50.00	43.01	86.0	50 - 110
4-Bromophenyl-phenylether	50.00	53.14	106	50 - 115
Butylbenzylphthalate	50.00	53.25	107	45 - 115
Caprolactam	**50.00**	**7.672**	**15.3**	**20 - 110**
Carbazole	50.00	51.66	103	50 - 115
4-Chloro-3-methylphenol	50.00	45.48	91.0	45 - 110
4-Chloroaniline	50.00	34.85	69.7	15 - 110
Bis(2-chloroethoxy)methane	**50.00**	**55.38**	**111**	**45 - 105**
Bis(2-chloroethyl)ether	50.00	44.40	88.8	35 - 110
2,2'-Oxybis-1-chloropropane	50.00	43.71	87.4	25 - 130
2-Chloronaphthalene	50.00	39.97	79.9	50 - 105
2-Chlorophenol	50.00	38.28	76.6	35 - 105
4-Chlorophenyl phenyl ether	50.00	44.51	89.0	50 - 110
Chrysene	50.00	43.14	86.3	55 - 110
Dibenz(a,h)anthracene	50.00	37.19	74.4	40 - 125
Dibenzofuran	50.00	41.00	82.0	55 - 105

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1C10022
Laboratory ID: 1C10022-BS1
Preparation: EXT_3510
Initial/Final: 1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Di-n-butylphthalate	50.00	53.71	107	55 - 115
2,4-Dichlorophenol	50.00	48.50	97.0	40 - 110
Diethylphthalate	50.00	54.27	109	40 - 120
2,4-Dimethylphenol	50.00	40.03	80.1	30 - 110
Dimethyl phthalate	50.00	49.91	99.8	25 - 125
4,6-Dinitro-2-methylphenol	50.00	58.70	117	40 - 130
2,4-Dinitrophenol	50.00	58.50	117	15 - 140
2,4-Dinitrotoluene	50.00	48.11	96.2	50 - 120
2,6-Dinitrotoluene	50.00	48.17	96.3	50 - 115
Di-n-octylphthalate	50.00	63.65	127	35 - 135
1,2-Diphenylhydrazine	50.00	49.63	99.3	55 - 115
Bis(2-ethylhexyl)phthalate	50.00	52.06	104	40 - 125
Fluoranthene	50.00	44.29	88.6	55 - 115
Fluorene	50.00	44.22	88.4	50 - 110
Hexachlorobenzene	50.00	49.64	99.3	50 - 110
Hexachlorobutadiene	50.00	17.44	34.9	25 - 105
Hexachlorocyclopentadiene	50.00	8.757	17.5	10 - 110
Hexachloroethane	50.00	19.46	38.9	30 - 95
Indeno(1,2,3-cd)pyrene	50.00	38.41	76.8	45 - 125
Isophorone	50.00	37.35	74.7	50 - 110
1-Methylnaphthalene	50.00	37.27	74.5	30 - 115
2-Methylnaphthalene	50.00	42.95	85.9	45 - 105
2-Methylphenol	50.00	32.06	64.1	40 - 110
4-Methylphenol	50.00	27.62	55.2	30 - 110
4-Nitroaniline	50.00	55.23	110	35 - 120
3-Nitroaniline	50.00	42.27	84.5	20 - 125
2-Nitroaniline	50.00	52.26	105	50 - 115
Nitrobenzene	50.00	47.80	95.6	30 - 110
4-Nitrophenol	50.00	14.12	28.2	0 - 125
2-Nitrophenol	50.00	48.18	96.4	40 - 115

LCS / LCS DUPLICATE RECOVERY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C10022	Laboratory ID:	1C10022-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
N-Nitrosodiphenylamine	50.00	25.44	50.9	50 - 110
N-Nitroso-di-n-propylamine	50.00	39.32	78.6	35 - 130
Pentachlorophenol	50.00	55.27	111	40 - 115
Phenanthrene	50.00	49.35	98.7	50 - 115
Phenol	50.00	16.36	32.7	0 - 115
Pyrene	50.00	56.12	112	50 - 130
2,4,6-Trichlorophenol	50.00	46.67	93.3	50 - 115
2,4,5-Trichlorophenol	50.00	47.46	94.9	50 - 110

PREPARATION BATCH SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_006

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1C10022 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
2819RC	1103096-01	03/11/11 10:45	1,060.00	1.00
Blank	1C10022-BLK1	03/11/11 10:45	1,000.00	1.00
LCS	1C10022-BS1	03/11/11 10:45	1,000.00	1.00

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	01/26/11
Instrument ID:	MS-BNA1	Injection Time:	15:13
Sequence:	1B03208	Lab Sample ID:	1B03208-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	41.9	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	62.8	PASS
70	Less than 2% of 69	0.345	PASS
127	40 - 60% of 198	44.3	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.89	PASS
275	10 - 30% of 198	16.8	PASS
365	1 - 200% of 198	1.47	PASS
441	0.001 - 100% of 443	70.3	PASS
442	40 - 200% of 198	40.3	PASS
443	17 - 23% of 442	21.7	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	01/28/11
Instrument ID:	MS-BNA1	Injection Time:	09:18
Sequence:	1B03208	Lab Sample ID:	1B03208-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	31.1	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	48.5	PASS
70	Less than 2% of 69	0.314	PASS
127	40 - 60% of 198	40.4	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.62	PASS
275	10 - 30% of 198	20	PASS
365	1 - 200% of 198	2.17	PASS
441	0.001 - 100% of 443	75.3	PASS
442	40 - 200% of 198	77.2	PASS
443	17 - 23% of 442	19.8	PASS

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Lab File ID:	SEQ-TUN1.D	Injection Date:	03/11/11
Instrument ID:	MS-BNA1	Injection Time:	18:56
Sequence:	1C07307	Lab Sample ID:	1C07307-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30 - 60% of 198	49.2	PASS
68	Less than 2% of 69	0	PASS
69	Less than 200% of 198	72.2	PASS
70	Less than 2% of 69	0.405	PASS
127	40 - 60% of 198	52.9	PASS
197	Less than 1% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	7.56	PASS
275	10 - 30% of 198	16.4	PASS
365	1 - 200% of 198	1.75	PASS
441	0.001 - 100% of 443	77.5	PASS
442	40 - 200% of 198	40.3	PASS
443	17 - 23% of 442	18.9	PASS

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1B03208	Instrument:	MS-BNA1
Calibration:	1032006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1B03208-TUN1	SEQ-TUN1.D	01/26/11 15:13
Cal Standard	1B03208-CAL1	SEQ-CAL1.D	01/26/11 15:40
Cal Standard	1B03208-CAL2	SEQ-CAL2.D	01/26/11 16:08
Cal Standard	1B03208-CAL3	SEQ-CAL3.D	01/26/11 16:37
Cal Standard	1B03208-CAL4	SEQ-CAL4.D	01/26/11 17:05
Cal Standard	1B03208-CAL5	SEQ-CAL5.D	01/26/11 17:34
Cal Standard	1B03208-CAL6	SEQ-CAL6.D	01/26/11 18:03
Cal Standard	1B03208-CAL7	SEQ-CAL7.D	01/26/11 18:31
Cal Standard	1B03208-CAL8	SEQ-CAL8.D	01/26/11 19:00
Cal Standard	1B03208-CAL9	SEQ-CAL9.D	01/26/11 19:29
Cal Standard	1B03208-CALA	SEQ-CALA.D	01/26/11 19:57
Cal Standard	1B03208-CALB	SEQ-CALB.D	01/26/11 20:26
Cal Standard	1B03208-CALC	SEQ-CALC.D	01/26/11 20:54
Cal Standard	1B03208-CALD	SEQ-CALD.D	01/26/11 21:23
Cal Standard	1B03208-CALE	SEQ-CALE.D	01/26/11 21:52
Cal Standard	1B03208-CALF	SEQ-CALF.D	01/26/11 22:20
Cal Standard	1B03208-CALG	SEQ-CALG.D	01/26/11 22:49
Initial Cal Check	1B03208-ICV1	SEQ-ICV1.D	01/26/11 23:17
Initial Cal Check	1B03208-ICV2	SEQ-ICV2.D	01/26/11 23:45
Initial Cal Check	1B03208-ICV3	SEQ-ICV3.D	01/27/11 00:13
MS Tune	1B03208-TUN2	SEQ-TUN1.D	01/28/11 09:18
Initial Cal Check	1B03208-ICV4	SEQ-ICV4.D	01/28/11 10:25

ANALYSIS SEQUENCE SUMMARY

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C07307	Instrument:	MS-BNA1
Calibration:	1032006		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1C07307-TUN1	SEQ-TUN1.D	03/11/11 18:56
Calibration Check	1C07307-CCV1	SEQ-CCV1.D	03/11/11 19:23
Blank	1C10022-BLK1	C10022B1.D	03/11/11 20:41
LCS	1C10022-BS1	C10022L1.D	03/11/11 21:10
2819RC	1103096-01	0309601.D	03/11/11 22:35

INTERNAL STANDARD AREA AND RT SUMMARY
SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C07307
Instrument: MS-BNA1
Calibration: 1032006

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1C07307-CCV1)			Lab File ID: SEQ-CCV1.D			Analyzed: 03/11/11 19:23			
1,4-Dichlorobenzene-d4	508575	5.836	537968	6.172	95	50 - 200	-0.3360	+/-0.50	
Naphthalene-d8	1553613	7.332	1642233	7.653	95	50 - 200	-0.3210	+/-0.50	
Acenaphthene-d10	772486	9.451	783714	9.779	99	50 - 200	-0.3280	+/-0.50	
Phenanthrene-d10	1067904	11.249	1089157	11.597	98	50 - 200	-0.3480	+/-0.50	
Chrysene-d12	711555	14.46	993474	14.84	72	50 - 200	-0.3800	+/-0.50	
Perylene-d12	502839	16.171	932715	16.597	54	50 - 200	-0.4260	+/-0.50	
Blank (1C10022-BLK1)			Lab File ID: C10022B1.D			Analyzed: 03/11/11 20:41			
1,4-Dichlorobenzene-d4	434638	5.834	508575	5.836	85	50 - 200	-0.0020	+/-0.50	
Naphthalene-d8	1157961	7.323	1553613	7.332	75	50 - 200	-0.0090	+/-0.50	
Acenaphthene-d10	502459	9.443	772486	9.451	65	50 - 200	-0.0080	+/-0.50	
Phenanthrene-d10	692615	11.237	1067904	11.249	65	50 - 200	-0.0120	+/-0.50	
Chrysene-d12	497710	14.451	711555	14.46	70	50 - 200	-0.0090	+/-0.50	
Perylene-d12	438760	16.167	502839	16.171	87	50 - 200	-0.0040	+/-0.50	
LCS (1C10022-BS1)			Lab File ID: C10022L1.D			Analyzed: 03/11/11 21:10			
1,4-Dichlorobenzene-d4	470170	5.838	508575	5.836	92	50 - 200	0.0020	+/-0.50	
Naphthalene-d8	1367853	7.334	1553613	7.332	88	50 - 200	0.0020	+/-0.50	
Acenaphthene-d10	706439	9.449	772486	9.451	91	50 - 200	-0.0020	+/-0.50	
Phenanthrene-d10	999917	11.243	1067904	11.249	94	50 - 200	-0.0060	+/-0.50	
Chrysene-d12	689353	14.46	711555	14.46	97	50 - 200	0.0000	+/-0.50	
Perylene-d12	398482	16.164	502839	16.171	79	50 - 200	-0.0070	+/-0.50	
2819RC (1103096-01)			Lab File ID: 0309601.D			Analyzed: 03/11/11 22:35			
1,4-Dichlorobenzene-d4	519164	5.832	508575	5.836	102	50 - 200	-0.0040	+/-0.50	
Naphthalene-d8	1402716	7.33	1553613	7.332	90	50 - 200	-0.0020	+/-0.50	
Acenaphthene-d10	717628	9.44	772486	9.451	93	50 - 200	-0.0110	+/-0.50	
Phenanthrene-d10	1029008	11.239	1067904	11.249	96	50 - 200	-0.0100	+/-0.50	
Chrysene-d12	640885	14.457	711555	14.46	90	50 - 200	-0.0030	+/-0.50	
Perylene-d12	560032	16.165	502839	16.171	111	50 - 200	-0.0060	+/-0.50	

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 1/26/11 15:40 1/26/11 22:49

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3,3'-Dichlorobenzidine	5	0.345776	10	0.3735446	20	0.3383405	40	0.4092793	50	0.4022903	60	0.4065189
Acenaphthene												
Acenaphthylene												
Acetophenone	5	1.718495	10	1.63753	20	1.524418	40	1.571136	50	1.546064	60	1.573002
Aniline												
Anthracene												
Atrazine	5	0.1907566	10	0.1974337	20	0.2066576	40	0.208239	50	0.2045953	60	0.2127531
Benzaldehyde	5	1.141413	10	1.160982	20	1.025443	40	1.064124	50	0.9565525	60	0.9552402
Benzidine	5	0.4873597	10	0.5759976	20	0.629192	40	0.6726627	50	0.6711953	60	0.6374861
Benzo(a)anthracene												
Benzo(a)pyrene												
Benzo(b)fluoranthene												
Benzo(g,h,i)perylene												
Benzoic acid												
Benzo(k)fluoranthene												
Benzyl alcohol												
1,1-Biphenyl	5	1.660318	10	1.616332	20	1.415179	40	1.433678	50	1.271071	60	1.516557
4-Bromophenyl-phenylether												
Butylbenzylphthalate												
Caprolactam	5	0.119707	10	0.1253949	20	0.1145069	40	0.1360062	50	0.1337222	60	0.1317621
Carbazole												
4-Chloro-3-methylphenol												
4-Chloroaniline												
Bis(2-chloroethoxy)methane												
Bis(2-chloroethyl)ether												
2,2'-Oxybis-1-chloropropane												
2-Chloronaphthalene												
2-Chlorophenol												
4-Chlorophenyl phenyl ether												
Chrysene												
Dibenz(a,h)anthracene												

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 1/26/11 15:40 1/26/11 22:49

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Dibenzofuran												
Di-n-butylphthalate												
1,4-Dichlorobenzene												
1,3-Dichlorobenzene												
1,2-Dichlorobenzene												
2,6-Dichlorophenol	5	0.3378312	10	0.327105	20	0.2967903	40	0.2951475	50	0.3247614	60	0.3152692
2,4-Dichlorophenol												
Diethylphthalate												
2,4-Dimethylphenol												
Dimethyl phthalate												
4,6-Dinitro-2-methylphenol												
2,4-Dinitrophenol												
2,4-Dinitrotoluene												
2,6-Dinitrotoluene												
Di-n-octylphthalate												
1,4-Dioxane	5	0.7076939	10	0.7115041	20	0.6327187	40	0.6201284	50	0.572512	60	0.6466837
1,2-Diphenylhydrazine												
Bis(2-ethylhexyl)phthalate												
Fluoranthene												
Fluorene												
2-Fluorobiphenyl												
2-Fluorophenol												
Hexachlorobenzene												
Hexachlorobutadiene												
Hexachlorocyclopentadiene												
Hexachloroethane												
Indeno(1,2,3-cd)pyrene												
Isophorone												
1-Methylnaphthalene												
2-Methylnaphthalene												
2-Methylphenol												

INITIAL CALIBRATION DATA

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 1/26/11 15:40 1/26/11 22:49

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol												
4-Methylphenol												
Naphthalene												
4-Nitroaniline												
3-Nitroaniline												
2-Nitroaniline												
Nitrobenzene												
Nitrobenzene-d5												
4-Nitrophenol												
2-Nitrophenol												
N-Nitrosodimethylamine												
N-Nitrosodiphenylamine												
N-Nitroso-di-n-propylamine												
Pentachlorophenol												
Phenanthrene												
Phenol												
Phenol-d6												
Pyrene												
Pyridine												
Terphenyl-d14												
1,2,4,5-Tetrachlorobenzene	5	0.3041409	10	0.2738675	20	0.2545837	40	0.3138555	50	0.3096277	60	0.285836
2,3,4,6-Tetrachlorophenol												
2,4,6-Tribromophenol												
1,2,4-Trichlorobenzene												
2,4,6-Trichlorophenol												
2,4,5-Trichlorophenol												

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 1/26/11 15:40 1/26/11 22:49

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3,3'-Dichlorobenzidine	80	0.4043308	100	0.3922965								
Acenaphthene					5	1.220878	10	1.118627	20	1.212567	40	1.085046
Acenaphthylene					5	1.94982	10	2.146404	20	1.823227	40	1.68579
Acetophenone	80	1.455533	100	1.415772								
Aniline					5	2.02499	10	2.162058	20	1.966631	40	2.001997
Anthracene					5	1.184955	10	1.081563	20	1.164455	40	1.091871
Atrazine	80	0.205928	100	0.2134976								
Benzaldehyde	80	0.9441259	100	0.8525288								
Benzidine	80	0.6973172	100	0.6804112								
Benzo(a)anthracene					5	1.162396	10	1.11186	20	1.213411	40	1.172758
Benzo(a)pyrene					5	1.028759	10	0.9828043	20	1.100819	40	1.122026
Benzo(b)fluoranthene					5	1.077629	10	1.039558	20	1.096949	40	1.152977
Benzo(g,h,i)perylene					5	0.8224602	10	0.7987842	20	0.8059861	40	0.7816645
Benzoic acid					5	0.1331081	10	0.1669506	20	0.2293678	40	0.2308795
Benzo(k)fluoranthene					5	1.29056	10	1.251448	20	1.316401	40	1.277549
Benzyl alcohol					5	0.8918595	10	0.9057471	20	0.8810121	40	0.8683949
1,1-Biphenyl	80	1.359401	100	1.268587								
4-Bromophenyl-phenylether					5	0.231972	10	0.2409782	20	0.260483	40	0.2108992
Butylbenzylphthalate					5	0.7540163	10	0.7862457	20	0.8246928	40	0.8176434
Caprolactam	80	0.1321053	100	0.1188764								
Carbazole					5	1.128219	10	1.02969	20	1.000536	40	0.8835432
4-Chloro-3-methylphenol					5	0.310694	10	0.2887984	20	0.2948105	40	0.2876101
4-Chloroaniline					5	0.4857113	10	0.4592316	20	0.4857785	40	0.4309516
Bis(2-chloroethoxy)methane					5	0.5100818	10	0.4912081	20	0.5153237	40	0.445233
Bis(2-chloroethyl)ether					5	1.442472	10	1.590034	20	1.374359	40	1.269574
2,2'-Oxybis-1-chloropropane					5	2.184818	10	2.306427	20	2.189966	40	2.011674
2-Chloronaphthalene					5	1.247416	10	1.208501	20	1.26931	40	1.16149
2-Chlorophenol					5	1.438581	10	1.288788	20	1.365938	40	1.295661
4-Chlorophenyl phenyl ether					5	0.5713084	10	0.574376	20	0.5688825	40	0.5386735
Chrysene					5	1.181379	10	1.170608	20	1.189425	40	1.176048
Dibenz(a,h)anthracene					5	0.7898291	10	0.7836814	20	0.7617359	40	0.8067768

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 1/26/11 15:40 1/26/11 22:49

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Dibenzofuran					5	1.576125	10	1.695587	20	1.726036	40	1.527336
Di-n-butylphthalate					5	1.469552	10	1.493537	20	1.485016	40	1.459402
1,4-Dichlorobenzene					5	1.565822	10	1.580467	20	1.482342	40	1.374248
1,3-Dichlorobenzene					5	1.564366	10	1.550635	20	1.466796	40	1.395741
1,2-Dichlorobenzene					5	1.485698	10	1.514043	20	1.430022	40	1.33701
2,6-Dichlorophenol	80	0.3067876	100	0.3061151								
2,4-Dichlorophenol					5	0.318596	10	0.3480627	20	0.326904	40	0.2954511
Diethylphthalate					5	1.66071	10	1.577697	20	1.524236	40	1.261
2,4-Dimethylphenol					5	0.3868736	10	0.3553646	20	0.3612512	40	0.3462765
Dimethyl phthalate					5	1.371102	10	1.473182	20	1.50951	40	1.243328
4,6-Dinitro-2-methylphenol					5	5.478294E-02	10	6.840982E-02	20	0.1071133	40	0.1333907
2,4-Dinitrophenol					5	~~5.062163E-02~~	10	6.237037E-02	20	0.1011521	40	0.1317647
2,4-Dinitrotoluene					5	0.3090174	10	0.3793169	20	0.4185296	40	0.3974313
2,6-Dinitrotoluene					5	0.3183163	10	0.3493131	20	0.3754144	40	0.3444299
Di-n-octylphthalate					5	1.6316	10	1.635798	20	1.910787	40	1.92312
1,4-Dioxane	80	0.6451679	100	0.6224177								
1,2-Diphenylhydrazine					5	0.9580609	10	1.008812	20	0.8802152	40	0.8420501
Bis(2-ethylhexyl)phthalate					5	0.9781605	10	1.042781	20	1.141739	40	1.073501
Fluoranthene					5	1.174554	10	1.119604	20	1.158582	40	1.010021
Fluorene					5	1.293421	10	1.21811	20	1.266726	40	1.122978
2-Fluorobiphenyl					5	1.345385	10	1.322831	20	1.520308	40	1.324401
2-Fluorophenol					10	1.351626	20	1.413124	40	1.336365	80	1.187975
Hexachlorobenzene					5	0.2665323	10	0.2655703	20	0.2697611	40	0.2648784
Hexachlorobutadiene					5	0.2026878	10	0.1856802	20	0.1853857	40	0.1781549
Hexachlorocyclopentadiene					5	0.2904279	10	0.3291612	20	0.3651913	40	0.3514916
Hexachloroethane					5	0.6518942	10	0.6308284	20	0.5940863	40	0.5416978
Indeno(1,2,3-cd)pyrene					5	0.9892853	10	0.9494004	20	0.9327697	40	0.9464554
Isophorone					5	0.8217078	10	0.8399116	20	0.7783914	40	0.749957
1-Methylnaphthalene					5	0.5974456	10	0.5823433	20	0.5405367	40	0.4803757
2-Methylnaphthalene					5	0.5430144	10	0.5513543	20	0.5312456	40	0.4988653
2-Methylphenol					5	1.286482	10	1.250346	20	1.247537	40	1.126521

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 1/26/11 15:40 1/26/11 22:49

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol					5	1.253529	10	1.307357	20	1.301847	40	1.200152
4-Methylphenol					5	1.253529	10	1.307357	20	1.301847	40	1.200152
Naphthalene					5	1.116486	10	1.119735	20	1.067584	40	0.9710557
4-Nitroaniline					5	0.2224683	10	0.2128799	20	0.1693595	40	0.2175572
3-Nitroaniline					5	0.3255846	10	0.3423936	20	0.370489	40	0.3366752
2-Nitroaniline					5	0.2654652	10	0.3352421	20	0.3339656	40	0.3505404
Nitrobenzene					5	0.3891568	10	0.4016634	20	0.3673868	40	0.3628202
Nitrobenzene-d5					5	0.3956987	10	0.3972185	20	0.3663041	40	0.3665365
4-Nitrophenol					5	0.1497267	10	0.1860405	20	0.2060501	40	0.1954678
2-Nitrophenol					5	0.2103668	10	0.2175712	20	0.2231657	40	0.2457888
N-Nitrosodimethylamine					5	0.4875362	10	0.5489131	20	0.5766275	40	0.6186587
N-Nitrosodiphenylamine					5	0.692447	10	0.7515103	20	0.7118897	40	0.6351698
N-Nitroso-di-n-propylamine					5	0.9311666	10	0.9269374	20	0.9262252	40	0.819147
Pentachlorophenol					5	0.1241727	10	0.1201355	20	0.1663006	40	0.1612227
Phenanthrene					5	1.200445	10	1.166657	20	1.130055	40	1.056359
Phenol					5	1.751446	10	1.879768	20	1.637272	40	1.637659
Phenol-d6					10	1.647681	20	1.763422	40	1.626008	80	1.603414
Pyrene					5	1.419325	10	1.399579	20	1.383023	40	1.359213
Pyridine					5	1.537536	10	1.635782	20	1.541409	40	1.602552
Terphenyl-d14					5	0.7926602	10	0.8057548	20	0.8474803	40	0.8784666
1,2,4,5-Tetrachlorobenzene	80	0.2829317	100	0.2756055								
2,3,4,6-Tetrachlorophenol					5	0.2994616	10	0.3272414	20	0.3682806	40	0.3554998
2,4,6-Tribromophenol					10	0.1431756	20	0.1442165	40	0.1561332	80	0.1413181
1,2,4-Trichlorobenzene					5	0.3682245	10	0.3577617	20	0.3747519	40	0.3449513
2,4,6-Trichlorophenol					5	0.3758167	10	0.3963889	20	0.4193174	40	0.4066011
2,4,5-Trichlorophenol					5	0.4069373	10	0.4358068	20	0.4686353	40	0.4421245

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 1/26/11 15:40 1/26/11 22:49

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3,3'-Dichlorobenzidine												
Acenaphthene	50	1.043914	60	1.052242	80	1.018418	100	0.9095531				
Acenaphthylene	50	1.661411	60	1.69419	80	1.475834	100	1.517921				
Acetophenone												
Aniline	50	1.898633	60	1.897488	80	1.838443	100	1.811652				
Anthracene	50	1.040675	60	0.9601388	80	0.986327	100	0.9420685				
Atrazine												
Benzaldehyde												
Benzidine												
Benzo(a)anthracene	50	1.123439	60	1.17446	80	1.085961	100	1.065421				
Benzo(a)pyrene	50	1.01213	60	1.049306	80	1.049837	100	1.00649				
Benzo(b)fluoranthene	50	1.139324	60	1.106174	80	1.072877	100	1.114459				
Benzo(g,h,i)perylene	50	0.7444304	60	0.6702291	80	0.781589	100	0.6663042				
Benzoic acid	50	0.2778284	60	0.2809271	80	0.2779468	100	0.2820542				
Benzo(k)fluoranthene	50	1.091518	60	1.245353	80	1.178262	100	1.066763				
Benzyl alcohol	50	0.8673854	60	0.8174535	80	0.7987832	100	0.7636324				
1,1-Biphenyl												
4-Bromophenyl-phenylether	50	0.239031	60	0.2319426	80	0.2214796	100	0.2055715				
Butylbenzylphthalate	50	0.7199546	60	0.8287041	80	0.732991	100	0.6918112				
Caprolactam												
Carbazole	50	0.8901069	60	0.8548234	80	0.7878224	100	0.7760328				
4-Chloro-3-methylphenol	50	0.2892545	60	0.2792311	80	0.2602546	100	0.2512146				
4-Chloroaniline	50	0.4412442	60	0.4082374	80	0.4006734	100	0.4141308				
Bis(2-chloroethoxy)methane	50	0.4453259	60	0.4436365	80	0.4141729	100	0.4082329				
Bis(2-chloroethyl)ether	50	1.300273	60	1.297892	80	1.290856	100	1.209098				
2,2'-Oxybis-1-chloropropane	50	1.717134	60	1.712654	80	1.555193	100	1.808949				
2-Chloronaphthalene	50	1.088393	60	1.064578	80	1.019875	100	1.06234				
2-Chlorophenol	50	1.283665	60	1.204709	80	1.275381	100	1.260114				
4-Chlorophenyl phenyl ether	50	0.5253523	60	0.5281174	80	0.5055696	100	0.4550214				
Chrysene	50	1.091368	60	1.142452	80	1.03431	100	0.996392				
Dibenz(a,h)anthracene	50	0.7553903	60	0.6819198	80	0.8216482	100	0.7302443				

INITIAL CALIBRATION DATA (Continued)

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Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 1/26/11 15:40 1/26/11 22:49

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Dibenzofuran	50	1.475582	60	1.426709	80	1.272312	100	1.282609				
Di-n-butylphthalate	50	1.385354	60	1.243875	80	1.25377	100	1.212919				
1,4-Dichlorobenzene	50	1.327094	60	1.312307	80	1.202188	100	1.192058				
1,3-Dichlorobenzene	50	1.410471	60	1.324776	80	1.268259	100	1.304134				
1,2-Dichlorobenzene	50	1.283084	60	1.19311	80	1.152838	100	1.120647				
2,6-Dichlorophenol												
2,4-Dichlorophenol	50	0.3200354	60	0.319605	80	0.3094633	100	0.3044136				
Diethylphthalate	50	1.233003	60	1.223311	80	1.164583	100	1.135723				
2,4-Dimethylphenol	50	0.3329041	60	0.3471536	80	0.310377	100	0.2939744				
Dimethyl phthalate	50	1.313868	60	1.251818	80	1.246383	100	1.163514				
4,6-Dinitro-2-methylphenol	50	0.1503998	60	0.1421705	80	0.141276	100	0.1458094				
2,4-Dinitrophenol	50	0.1515695	60	0.1605612	80	0.1730286	100	0.1784883				
2,4-Dinitrotoluene	50	0.3875191	60	0.3787391	80	0.3429866	100	0.3779481				
2,6-Dinitrotoluene	50	0.3554451	60	0.3624102	80	0.3355308	100	0.3457358				
Di-n-octylphthalate	50	1.690144	60	1.92358	80	1.727296	100	1.901108				
1,4-Dioxane												
1,2-Diphenylhydrazine	50	0.8308116	60	0.7998217	80	0.7293861	100	0.6287272				
Bis(2-ethylhexyl)phthalate	50	1.024078	60	1.086512	80	0.9241547	100	0.9297745				
Fluoranthene	50	1.108267	60	1.002067	80	1.007233	100	1.002433				
Fluorene	50	1.117687	60	1.11628	80	1.079617	100	0.961522				
2-Fluorobiphenyl	50	1.225178	60	1.232052	80	1.237633	100	1.19141				
2-Fluorophenol	100	1.20463	120	1.147633	160	1.052205	200	1.104915				
Hexachlorobenzene	50	0.2590678	60	0.2544472	80	0.2593156	100	0.2389274				
Hexachlorobutadiene	50	0.170282	60	0.1647461	80	0.1585373	100	0.1651874				
Hexachlorocyclopentadiene	50	0.367711	60	0.3489062	80	0.3745824	100	0.3733203				
Hexachloroethane	50	0.5772956	60	0.5438372	80	0.5195182	100	0.5209373				
Indeno(1,2,3-cd)pyrene	50	0.9040208	60	0.8189074	80	0.9751703	100	0.8667418				
Isophorone	50	0.7902478	60	0.746112	80	0.7366049	100	0.7091168				
1-Methylnaphthalene	50	0.4934924	60	0.4820733	80	0.4428706	100	0.4445212				
2-Methylnaphthalene	50	0.4906804	60	0.4548918	80	0.4483581	100	0.4288413				
2-Methylphenol	50	1.096435	60	1.008644	80	1.011912	100	1.054777				

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 1/26/11 15:40 1/26/11 22:49

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
3-Methylphenol	50	1.183712	60	1.087107	80	1.08938	100	1.065014				
4-Methylphenol	50	1.183712	60	1.087107	80	1.08938	100	1.065014				
Naphthalene	50	0.9156539	60	0.8994825	80	0.803674	100	0.8087121				
4-Nitroaniline	50	0.2554806	60	0.2397759	80	0.265351	100	0.2644746				
3-Nitroaniline	50	0.3401997	60	0.3519287	80	0.3683457	100	0.3506128				
2-Nitroaniline	50	0.3128571	60	0.3442502	80	0.3309131	100	0.3278767				
Nitrobenzene	50	0.3639734	60	0.3552985	80	0.316403	100	0.3115827				
Nitrobenzene-d5	50	0.3848744	60	0.3536817	80	0.3468868	100	0.3422753				
4-Nitrophenol	50	0.2163265	60	0.210757	80	0.2207467	100	0.1969781				
2-Nitrophenol	50	0.2287002	60	0.2342643	80	0.2149201	100	0.2181142				
N-Nitrosodimethylamine	50	0.5975275	60	0.5849924	80	0.5484751	100	0.6183085				
N-Nitrosodiphenylamine	50	0.6608435	60	0.6252076	80	0.6238943	100	0.5782682				
N-Nitroso-di-n-propylamine	50	0.8173453	60	0.7504894	80	0.7585171	100	0.743702				
Pentachlorophenol	50	0.1801354	60	0.1769821	80	0.1807552	100	0.1820394				
Phenanthrene	50	1.059757	60	0.986977	80	0.9344506	100	0.9248322				
Phenol	50	1.575537	60	1.559301	80	1.423146	100	1.454171				
Phenol-d6	100	1.524433	120	1.494738	160	1.34971	200	1.445646				
Pyrene	50	1.24653	60	1.29918	80	1.21817	100	1.066224				
Pyridine	50	1.575985	60	1.509723	80	1.577055	100	1.61602				
Terphenyl-d14	50	0.8111087	60	0.848248	80	0.7819749	100	0.7308348				
1,2,4,5-Tetrachlorobenzene												
2,3,4,6-Tetrachlorophenol	50	0.3512989	60	0.3437278	80	0.317592	100	0.3289565				
2,4,6-Tribromophenol	100	0.1487108	120	0.1437723	160	0.1452231	200	0.1366756				
1,2,4-Trichlorobenzene	50	0.3420562	60	0.3493295	80	0.3106524	100	0.3076826				
2,4,6-Trichlorophenol	50	0.3828678	60	0.38452	80	0.4245115	100	0.4173965				
2,4,5-Trichlorophenol	50	0.4433099	60	0.420189	80	0.429527	100	0.4083834				

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 1/26/11 15:40 1/26/11 22:49

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
3,3'-Dichlorobenzidine	0.3840471	7.376638	14.80975	2.744989E-02			15	
Acenaphthene	1.082656	9.483861	9.821625	5.657461E-02			CCC (30)	
Acenaphthylene	1.744325	12.75083	9.605125	6.858755E-02			15	
Acetophenone	1.555244	6.168212	6.634375	7.218448E-02			15	
Aniline	1.950237	5.831973	5.807375	0.1033171			15	
Anthracene	1.056507	8.585155	11.68625	5.730172E-02			15	
Atrazine	0.2049826	3.718523	11.27987	9.895935E-02			15	
Benzaldehyde	1.012551	10.43666	5.684375	9.183361E-02			15	
Benzidine	0.6314527	11.01948	13.25575	3.711405E-02			15	
Benzo(a)anthracene	1.138713	4.414255	14.83125	3.720446E-02			15	
Benzo(a)pyrene	1.044021	4.547513	16.52988	3.873379E-02			CCC (30)	
Benzo(b)fluoranthene	1.099993	3.348838	16.14687	3.650013E-02			15	
Benzo(g,h,i)perylene	0.758931	7.956935	18.3315	6.411751E-02			15	
Benzoic acid	0.2348828	24.43774	7.4215	0.7447993	0.9967614		0.995	
Benzo(k)fluoranthene	1.214732	7.667493	16.18175	5.256876E-02			15	
Benzyl alcohol	0.8492835	5.904117	6.339625	0.134646			15	
1,1-Biphenyl	1.44264	10.16426	9.0865	7.580724E-02			15	
4-Bromophenyl-phenylether	0.2302946	7.64967	11.058	3.698206E-02			15	
Butylbenzylphthalate	0.7695074	6.808174	14.17538	0.0181131			15	
Caprolactam	0.1265101	6.344437	8.16975	0.2428858			15	
Carbazole	0.9188467	13.42596	11.88687	4.735667E-02			15	
4-Chloro-3-methylphenol	0.2827335	6.739682	8.335875	5.589678E-02			CCC (30)	
4-Chloroaniline	0.4407449	7.602189	7.752375	5.839612E-02			15	
Bis(2-chloroethoxy)methane	0.4591519	9.024322	7.3845	9.015245E-02			15	
Bis(2-chloroethyl)ether	1.34682	8.949026	5.887375	0.1010167			15	
2,2'-Oxybis-1-chloropropane	1.935852	14.19111	6.495	7.787477E-02			15	
2-Chloronaphthalene	1.140238	8.268771	9.102	5.514584E-02			15	
2-Chlorophenol	1.301605	5.44966	5.93325	0.0640218			15	
4-Chlorophenyl phenyl ether	0.5334126	7.569953	10.46213	3.392237E-02			15	
Chrysene	1.122748	6.577449	14.87787	4.224206E-02			15	
Dibenz(a,h)anthracene	0.7664032	5.859635	17.97362	4.666747E-02			15	
Dibenzofuran	1.497787	11.31125	10.03125	6.286963E-02			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
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Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 1/26/11 15:40 1/26/11 22:49

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Di-n-butylphthalate	1.375428	8.7109	12.34463	0.0340847			15	
1,4-Dichlorobenzene	1.379566	10.94327	6.191375	6.203767E-02			CCC (30)	
1,3-Dichlorobenzene	1.410647	7.838891	6.106	5.463781E-02			15	
1,2-Dichlorobenzene	1.314556	11.58735	6.360125	4.155267E-02			15	
2,6-Dichlorophenol	0.3137259	4.852462	7.75425	4.420223E-02			15	
2,4-Dichlorophenol	0.3178164	4.983195	7.490125	8.883757E-02			CCC (30)	
Diethylphthalate	1.347533	15.27684	10.34412	9.254366E-02	0.9972915		0.995	
2,4-Dimethylphenol	0.3417719	8.563737	7.26575	0.1065429			15	
Dimethyl phthalate	1.321588	9.153659	9.484625	0.1434108			15	
4,6-Dinitro-2-methylphenol	0.1179191	31.66593	10.527	0.1204279	0.9973104		0.995	
2,4-Dinitrophenol	0.1369907	30.78159	9.873571	9.653076E-02	0.9960785		SPCC (0.05)	
2,4-Dinitrotoluene	0.373936	9.021128	10.03375	9.903814E-02			15	
2,6-Dinitrotoluene	0.3483244	4.936864	9.545375	0.1119241			15	
Di-n-octylphthalate	1.792929	7.459237	15.71263	0.024866			CCC (30)	
1,4-Dioxane	0.6448533	7.152144	3.019375	0.1113753			15	
1,2-Diphenylhydrazine	0.8347356	14.48987	10.65375	4.850528E-02			15	
Bis(2-ethylhexyl)phthalate	1.025088	7.512426	14.90587	0.0193314			15	
Fluoranthene	1.072845	6.98906	13.07425	4.253064E-02			CCC (30)	
Fluorene	1.147043	9.444569	10.45175	5.284617E-02			15	
2-Fluorobiphenyl	1.2999	8.100212	8.967125	3.987571E-02			15	
2-Fluorophenol	1.224809	10.50463	4.742625	0.1316694			15	
Hexachlorobenzene	0.2598125	3.761925	11.1185	4.707497E-02			15	
Hexachlorobutadiene	0.1763327	8.243307	7.8355	4.165048E-02			CCC (30)	
Hexachlorocyclopentadiene	0.350099	8.135736	8.706625	3.605388E-02			SPCC (0.05)	
Hexachloroethane	0.5725119	8.716146	6.7485	3.321397E-02			15	
Indeno(1,2,3-cd)pyrene	0.9228439	6.186788	17.94762	5.505283E-02			15	
Isophorone	0.7715062	5.758819	7.1245	0.1880514			15	
1-Methylnaphthalene	0.5079573	11.64757	8.633	4.208229E-02			15	
2-Methylnaphthalene	0.4934064	9.372333	8.513125	5.344917E-02			15	
2-Methylphenol	1.135332	9.877222	6.461875	0.1007337			15	
3-Methylphenol	1.186012	8.228414	6.647625	0.1700502			15	
4-Methylphenol	1.186012	8.228414	6.647625	0.1700502			15	

INITIAL CALIBRATION DATA (Continued)

SW8270C

Laboratory: Empirical Laboratories, LLC
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Project: Kirtland AFB 2011
Calibration: 1032006
Instrument: MS-BNA1
Matrix: Water
Calibration Dates: 1/26/11 15:40 1/26/11 22:49

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Naphthalene	0.9627979	13.28902	7.679625	6.733623E-02			15	
4-Nitroaniline	0.2309184	14.04035	10.48912	0.1289535			15	
3-Nitroaniline	0.3482787	4.427347	9.746125	0.1226337			15	
2-Nitroaniline	0.3251388	8.173008	9.237625	6.849578E-02			15	
Nitrobenzene	0.3585356	8.765722	6.833875	0.1095103			15	
Nitrobenzene-d5	0.3691845	5.802246	6.809875	9.945623E-02			15	
4-Nitrophenol	0.1977617	11.40524	9.955125	0.1174457			SPCC (0.05)	
2-Nitrophenol	0.2241114	5.190145	7.205375	6.189121E-02			CCC (30)	
N-Nitrosodimethylamine	0.5726299	7.635147	3.346125	0.1829083			15	
N-Nitrosodiphenylamine	0.6599038	8.482011	10.61075	6.517892E-02			CCC (30)	
N-Nitroso-di-n-propylamine	0.8341912	9.917143	6.653625	0.1894353			SPCC (0.05)	
Pentachlorophenol	0.1614679	15.71491	11.36463	3.521819E-02	0.9986717		CCC (30)	
Phenanthrene	1.057442	9.810503	11.62413	4.673016E-02			15	
Phenol	1.614787	9.276235	5.7815	0.2208323			CCC (30)	
Phenol-d6	1.556882	8.341379	5.768125	0.2252886			15	
Pyrene	1.298906	9.144153	13.35137	4.721813E-02			15	
Pyridine	1.574508	2.729928	3.381875	0.3664935			15	
Terphenyl-d14	0.812066	5.680172	13.56038	3.188842E-02			15	
1,2,4,5-Tetrachlorobenzene	0.2875561	7.072892	8.715	4.094783E-02			15	
2,3,4,6-Tetrachlorophenol	0.3365073	6.658431	10.18512	5.841319E-02			15	
2,4,6-Tribromophenol	0.1449031	3.921225	10.74725	8.448053E-02			15	
1,2,4-Trichlorobenzene	0.3444263	7.098695	7.588375	0.0361532			15	
2,4,6-Trichlorophenol	0.4009275	4.66083	8.857625	4.361742E-02			CCC (30)	
2,4,5-Trichlorophenol	0.4318641	4.727981	8.89625	5.449523E-02			15	

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/26/11
Lab Sample ID:	1B03208-ICV1	Injection Time:	23:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Acenaphthene	A	50.00	48.86	1.082656	1.057895		-2.3	20
Acenaphthylene	A	50.00	53.91	1.744325	1.88061		7.8	20
Anthracene	A	50.00	54.49	1.056507	1.151439		9.0	20
Benzo(a)anthracene	A	50.00	48.79	1.138713	1.111173		-2.4	20
Benzo(a)pyrene	A	50.00	51.01	1.044021	1.065141		2.0	20
Benzo(b)fluoranthene	A	50.00	53.46	1.099993	1.176117		6.9	20
Benzo(g,h,i)perylene	A	50.00	48.22	0.758931	0.7319486		-3.6	20
Benzoic acid	L	50.00	49.49	0.2348828	0.2661538		-1.0	20
Benzo(k)fluoranthene	A	50.00	51.57	1.214732	1.252919		3.1	20
4-Bromophenyl-phenylether	A	50.00	50.34	0.2302946	0.2318677		0.7	20
Butylbenzylphthalate	A	50.00	48.50	0.7695074	0.7463976		-3.0	20
Carbazole	A	50.00	49.83	0.9188467	0.9156435		-0.3	20
4-Chloro-3-methylphenol	A	50.00	48.88	0.2827335	0.2763814		-2.2	20
4-Chloroaniline	A	50.00	48.88	0.4407449	0.4308957		-2.2	20
Bis(2-chloroethoxy)methane	A	50.00	48.87	0.4591519	0.4488008		-2.3	20
Bis(2-chloroethyl)ether	A	50.00	51.95	1.34682	1.39927		3.9	20
2,2'-Oxybis-1-chloropropane	A	50.00	52.78	1.935852	2.04349		5.6	20
2-Chloronaphthalene	A	50.00	54.43	1.140238	1.241253		8.9	20
2-Chlorophenol	A	50.00	55.87	1.301605	1.45441		11.7	20
4-Chlorophenyl phenyl ether	A	50.00	53.91	0.5334126	0.5751643		7.8	20
Chrysene	A	50.00	49.81	1.122748	1.118473		-0.4	20
Dibenz(a,h)anthracene	A	50.00	51.54	0.7664032	0.7899782		3.1	20
Dibenzofuran	A	50.00	53.13	1.497787	1.591559		6.3	20
Di-n-butylphthalate	A	50.00	53.06	1.375428	1.459543		6.1	20
2,4-Dichlorophenol	A	50.00	50.78	0.3178164	0.3228019		1.6	20
2,4-Dimethylphenol	A	50.00	53.12	0.3417719	0.363117		6.2	20
Dimethyl phthalate	A	50.00	46.62	1.321588	1.232204		-6.8	20
4,6-Dinitro-2-methylphenol	L	50.00	57.23	0.1179191	0.1614366		14.5	20
2,4-Dinitrotoluene	A	50.00	56.52	0.373936	0.4227034		13.0	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/26/11
Lab Sample ID:	1B03208-ICV1	Injection Time:	23:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2,6-Dinitrotoluene	A	50.00	56.02	0.3483244	0.3902734		12.0	20
Di-n-octylphthalate	A	50.00	54.25	1.792929	1.945241		8.5	20
1,2-Diphenylhydrazine	A	50.00	55.94	0.8347356	0.9339785		11.9	20
Bis(2-ethylhexyl)phthalate	A	50.00	48.68	1.025088	0.9980238		-2.6	20
Fluoranthene	A	50.00	53.77	1.072845	1.153832		7.5	20
Fluorene	A	50.00	54.89	1.147043	1.25925		9.8	20
Hexachlorobenzene	A	50.00	52.99	0.2598125	0.2753324		6.0	20
Hexachlorobutadiene	A	50.00	50.82	0.1763327	0.1792089		1.6	20
Hexachlorocyclopentadiene	A	50.00	53.52	0.350099	0.3747613	0.05	7.0	20
Hexachloroethane	A	50.00	51.75	0.5725119	0.5925988		3.5	20
Indeno(1,2,3-cd)pyrene	A	50.00	50.45	0.9228439	0.9311681		0.9	20
Isophorone	A	50.00	44.69	0.7715062	0.6895249		-10.6	20
1-Methylnaphthalene	A	50.00	47.14	0.5079573	0.4789479		-5.7	20
2-Methylnaphthalene	A	50.00	47.28	0.4934064	0.4665976		-5.4	20
2-Methylphenol	A	50.00	55.42	1.135332	1.258309		10.8	20
4-Methylphenol	A	50.00	48.86	1.186012	1.158893		-2.3	20
3-Nitroaniline	A	50.00	56.90	0.3482787	0.3963161		13.8	20
2-Nitroaniline	A	50.00	53.24	0.3251388	0.3462363		6.5	20
Nitrobenzene	A	50.00	45.58	0.3585356	0.3268608		-8.8	20
4-Nitrophenol	A	50.00	55.39	0.1977617	0.2190963	0.05	10.8	20
2-Nitrophenol	A	50.00	54.79	0.2241114	0.2455745		9.6	20
N-Nitrosodiphenylamine	A	50.00	56.39	0.6599038	0.7442938		12.8	20
N-Nitroso-di-n-propylamine	A	50.00	49.68	0.8341912	0.8288013	0.05	-0.6	20
Phenanthrene	A	50.00	56.16	1.057442	1.187789		12.3	20
Phenol	A	50.00	56.47	1.614787	1.823722		12.9	20
Pyrene	A	50.00	48.44	1.298906	1.258473		-3.1	20
2,4,6-Trichlorophenol	A	50.00	54.97	0.4009275	0.440817		9.9	20
2,4,5-Trichlorophenol	A	50.00	53.87	0.4318641	0.4652694		7.7	20
2-Fluorobiphenyl	A	50.00	56.18	1.2999	1.460568		12.4	20

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/26/11
Lab Sample ID:	1B03208-ICV1	Injection Time:	23:17

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
2-Fluorophenol	A	100.0	113.8	1.224809	1.394017		13.8	20
Nitrobenzene-d5	A	50.00	51.69	0.3691845	0.3816462		3.4	20
Terphenyl-d14	A	50.00	45.39	0.812066	0.7371136		-9.2	20
2,4,6-Tribromophenol	A	100.0	118.8	0.1449031	0.1721949		18.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV2.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/26/11
Lab Sample ID:	1B03208-ICV2	Injection Time:	23:45

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
3,3'-Dichlorobenzidine	A	50.00	51.60	0.3840471	0.3963298		3.2	20
Acetophenone	A	50.00	51.76	1.555244	1.609954		3.5	20
Atrazine	A	50.00	52.28	0.2049826	0.214327		4.6	20
Benzaldehyde	A	50.00	43.46	1.012551	0.8801513		-13.1	20
Benzidine	A	50.00	50.30	0.6314527	0.6352446		0.6	20
1,1-Biphenyl	A	50.00	55.15	1.44264	1.591358		10.3	20
Caprolactam	A	50.00	55.66	0.1265101	0.1408405		11.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV3.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/27/11
Lab Sample ID:	1B03208-ICV3	Injection Time:	00:13

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diethylphthalate	L	50.00	48.25	1.347533	1.174754		-3.5	20
2,4-Dinitrophenol	L	50.00	57.52	0.1369907	0.1861539	0.05	15.0	20
Pentachlorophenol	L	50.00	58.37	0.1614679	0.2074009		16.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

INITIAL CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-ICV4.D	Calibration Date:	01/26/11 15:40
Sequence:	1B03208	Injection Date:	01/28/11
Lab Sample ID:	1B03208-ICV4	Injection Time:	10:25

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
4-Nitroaniline	A	50.00	42.68	0.2309184	0.1971107		-14.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1C07307	Injection Date:	03/11/11
Lab Sample ID:	1C07307-CCV1	Injection Time:	19:23

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
3,3'-Dichlorobenzidine	A	50.00	37.57	0.3840471	0.2885376		-24.9	20 *
Acenaphthene	A	50.00	48.29	1.082656	1.0457		-3.4	20
Acenaphthylene	A	50.00	49.74	1.744325	1.735208		-0.5	20
Acetophenone	A	50.00	41.89	1.555244	1.303075		-16.2	20
Anthracene	A	50.00	48.40	1.056507	1.022697		-3.2	20
Atrazine	A	50.00	47.00	0.2049826	0.1926675		-6.0	20
Benzaldehyde	A	50.00	37.03	1.012551	0.7499024		-25.9	20 *
Benzidine	A	50.00	33.62	0.6314527	0.4246103		-32.8	20 *
Benzo(a)anthracene	A	50.00	45.22	1.138713	1.029793		-9.6	20
Benzo(a)pyrene	A	50.00	48.72	1.044021	1.017281		-2.6	20
Benzo(b)fluoranthene	A	50.00	50.83	1.099993	1.118208		1.7	20
Benzo(g,h,i)perylene	A	50.00	46.41	0.758931	0.704402		-7.2	20
Benzoic acid	L	50.00	49.22	0.2348828	0.2646054		-1.6	20
Benzo(k)fluoranthene	A	50.00	53.92	1.214732	1.310057		7.8	20
1,1-Biphenyl	A	50.00	43.13	1.44264	1.244518		-13.7	20
4-Bromophenyl-phenylether	A	50.00	52.31	0.2302946	0.2409235		4.6	20
Butylbenzylphthalate	A	50.00	53.95	0.7695074	0.8302537		7.9	20
Caprolactam	A	50.00	44.79	0.1265101	0.1133163		-10.4	20
Carbazole	A	50.00	53.85	0.9188467	0.9896343		7.7	20
4-Chloro-3-methylphenol	A	50.00	50.26	0.2827335	0.2842304		0.5	20
4-Chloroaniline	A	50.00	42.34	0.4407449	0.3732482		-15.3	20
Bis(2-chloroethoxy)methane	A	50.00	49.42	0.4591519	0.4538		-1.2	20
Bis(2-chloroethyl)ether	A	50.00	49.59	1.34682	1.335735		-0.8	20
2,2'-Oxybis-1-chloropropane	A	50.00	44.05	1.935852	1.705512		-11.9	20
2-Chloronaphthalene	A	50.00	58.33	1.140238	1.330191		16.7	20
2-Chlorophenol	A	50.00	51.75	1.301605	1.347193		3.5	20
4-Chlorophenyl phenyl ether	A	50.00	49.12	0.5334126	0.5239852		-1.8	20
Chrysene	A	50.00	47.31	1.122748	1.062337		-5.4	20
Dibenz(a,h)anthracene	A	50.00	44.83	0.7664032	0.6871623		-10.3	20

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1C07307	Injection Date:	03/11/11
Lab Sample ID:	1C07307-CCV1	Injection Time:	19:23

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
Dibenzofuran	A	50.00	47.55	1.497787	1.424397		-4.9	20	
Di-n-butylphthalate	A	50.00	53.20	1.375428	1.46347		6.4	20	
2,4-Dichlorophenol	A	50.00	49.73	0.3178164	0.3160746		-0.5	20	
Diethylphthalate	L	50.00	50.82	1.347533	1.23113		1.6	20	
2,4-Dimethylphenol	A	50.00	49.65	0.3417719	0.3393952		-0.7	20	
Dimethyl phthalate	A	50.00	47.50	1.321588	1.255628		-5.0	20	
4,6-Dinitro-2-methylphenol	L	50.00	61.12	0.1179191	0.1733527		22.2	20	*
2,4-Dinitrophenol	L	50.00	62.18	0.1369907	0.204376	0.05	24.4	20	*
2,4-Dinitrotoluene	A	50.00	52.13	0.373936	0.3898882		4.3	20	
2,6-Dinitrotoluene	A	50.00	48.12	0.3483244	0.3352232		-3.8	20	
Di-n-octylphthalate	A	50.00	54.51	1.792929	1.954817		9.0	20	
1,2-Diphenylhydrazine	A	50.00	56.30	0.8347356	0.9399557		12.6	20	
Bis(2-ethylhexyl)phthalate	A	50.00	49.66	1.025088	1.018073		-0.7	20	
Fluoranthene	A	50.00	49.20	1.072845	1.055776		-1.6	20	
Fluorene	A	50.00	51.63	1.147043	1.184437		3.3	20	
Hexachlorobenzene	A	50.00	50.42	0.2598125	0.2620123		0.8	20	
Hexachlorobutadiene	A	50.00	47.65	0.1763327	0.1680511		-4.7	20	
Hexachlorocyclopentadiene	A	50.00	52.30	0.350099	0.3662337	0.05	4.6	20	
Hexachloroethane	A	50.00	49.33	0.5725119	0.5648677		-1.3	20	
Indeno(1,2,3-cd)pyrene	A	50.00	46.11	0.9228439	0.8511257		-7.8	20	
Isophorone	A	50.00	47.73	0.7715062	0.7365232		-4.5	20	
1-Methylnaphthalene	A	50.00	46.67	0.5079573	0.474082		-6.7	20	
2-Methylnaphthalene	A	50.00	47.90	0.4934064	0.4726819		-4.2	20	
2-Methylphenol	A	50.00	50.31	1.135332	1.142276		0.6	20	
4-Methylphenol	A	50.00	40.99	1.186012	0.9722759		-18.0	20	
4-Nitroaniline	A	50.00	63.95	0.2309184	0.2953374		27.9	20	*
3-Nitroaniline	A	50.00	55.05	0.3482787	0.3834892		10.1	20	
2-Nitroaniline	A	50.00	58.94	0.3251388	0.3832686		17.9	20	
Nitrobenzene	A	50.00	48.39	0.3585356	0.3469621		-3.2	20	

CONTINUING CALIBRATION CHECK

SW8270C

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	MS-BNA1	Calibration:	1032006
Lab File ID:	SEQ-CCV1.D	Calibration Date:	01/26/11 15:40
Sequence:	1C07307	Injection Date:	03/11/11
Lab Sample ID:	1C07307-CCV1	Injection Time:	19:23

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)	
4-Nitrophenol	A	50.00	43.96	0.1977617	0.1738719	0.05	-12.1	20	
2-Nitrophenol	A	50.00	54.12	0.2241114	0.2425685		8.2	20	
N-Nitrosodiphenylamine	A	50.00	53.44	0.6599038	0.7053023		6.9	20	
N-Nitroso-di-n-propylamine	A	50.00	38.37	0.8341912	0.6402139	0.05	-23.3	20	*
Pentachlorophenol	L	50.00	58.37	0.1614679	0.2073902		16.7	20	
Phenanthrene	A	50.00	47.48	1.057442	1.004235		-5.0	20	
Phenol	A	50.00	45.43	1.614787	1.467114		-9.1	20	
Pyrene	A	50.00	58.45	1.298906	1.518478		16.9	20	
2,4,6-Trichlorophenol	A	50.00	48.36	0.4009275	0.3877404		-3.3	20	
2,4,5-Trichlorophenol	A	50.00	49.59	0.4318641	0.4283169		-0.8	20	
2-Fluorobiphenyl	A	50.00	42.83	1.2999	1.113423		-14.3	20	
2-Fluorophenol	A	100.0	97.12	1.224809	1.189516		-2.9	20	
Nitrobenzene-d5	A	50.00	47.16	0.3691845	0.3481794		-5.7	20	
Phenol-d6	A	100.0	88.75	1.556882	1.381808		-11.2	20	
Terphenyl-d14	A	50.00	56.88	0.812066	0.9238527		13.8	20	
2,4,6-Tribromophenol	A	100.0	109.1	0.1449031	0.1580895		9.1	20	

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1C10022-BLK1 File ID: C10022B1.D

Sampled: Prepared: Analyzed: 03/11/11 20:41

Solids: Preparation: EXT_3510 Dilution:

Batch: 1C10022 Sequence: 1C07307 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine		1.25	2.50	5.00	Y, U
83-32-9	Acenaphthene		1.25	2.50	5.00	U
208-96-8	Acenaphthylene		1.25	2.50	5.00	U
98-86-2	Acetophenone		1.25	2.50	5.00	U
120-12-7	Anthracene		1.25	2.50	5.00	U
1912-24-9	Atrazine		1.25	2.50	5.00	U
100-52-7	Benzaldehyde		1.25	2.50	5.00	Y, U
92-87-5	Benzidine		12.5	25.0	50.0	Y, U
56-55-3	Benzo(a)anthracene		1.25	2.50	5.00	U
50-32-8	Benzo(a)pyrene		1.25	2.50	5.00	U
205-99-2	Benzo(b)fluoranthene		1.25	2.50	5.00	U
191-24-2	Benzo(g,h,i)perylene		1.25	2.50	5.00	U
65-85-0	Benzoic acid		12.5	25.0	50.0	U
207-08-9	Benzo(k)fluoranthene		1.25	2.50	5.00	U
92-52-4	1,1-Biphenyl		1.25	2.50	5.00	U
101-55-3	4-Bromophenyl-phenylether		1.25	2.50	5.00	U
85-68-7	Butylbenzylphthalate		1.25	2.50	5.00	U
105-60-2	Caprolactam		1.25	2.50	5.00	Q, U
86-74-8	Carbazole		1.25	2.50	5.00	U
59-50-7	4-Chloro-3-methylphenol		1.25	2.50	5.00	U
106-47-8	4-Chloroaniline		1.25	2.50	5.00	U
111-91-1	Bis(2-chloroethoxy)methane		1.25	2.50	5.00	Q, U
111-44-4	Bis(2-chloroethyl)ether		1.25	2.50	5.00	U
108-60-1	2,2'-Oxybis-1-chloropropane		1.25	2.50	5.00	U
91-58-7	2-Chloronaphthalene		1.25	2.50	5.00	U
95-57-8	2-Chlorophenol		1.25	2.50	5.00	U
7005-72-3	4-Chlorophenyl phenyl ether		1.25	2.50	5.00	U
218-01-9	Chrysene		1.25	2.50	5.00	U
53-70-3	Dibenz(a,h)anthracene		1.25	2.50	5.00	U
132-64-9	Dibenzofuran		1.25	2.50	5.00	U
84-74-2	Di-n-butylphthalate		1.25	2.50	5.00	U
120-83-2	2,4-Dichlorophenol		1.25	2.50	5.00	U
84-66-2	Diethylphthalate		1.25	2.50	5.00	U
105-67-9	2,4-Dimethylphenol		5.00	10.0	20.0	U
131-11-3	Dimethyl phthalate		1.25	2.50	5.00	U
534-52-1	4,6-Dinitro-2-methylphenol		5.00	10.0	20.0	X, U
51-28-5	2,4-Dinitrophenol		12.5	25.0	50.0	X, U
121-14-2	2,4-Dinitrotoluene		1.25	2.50	5.00	U
606-20-2	2,6-Dinitrotoluene		1.25	2.50	5.00	U
117-84-0	Di-n-octylphthalate		1.25	2.50	5.00	U

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1C10022-BLK1 File ID: C10022B1.D

Sampled: Prepared: Analyzed: 03/11/11 20:41

Solids: Preparation: EXT_3510 Dilution:

Batch: 1C10022 Sequence: 1C07307 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine		1.25	2.50	5.00	U
117-81-7	Bis(2-ethylhexyl)phthalate		1.25	2.50	5.00	U
206-44-0	Fluoranthene		1.25	2.50	5.00	U
86-73-7	Fluorene		1.25	2.50	5.00	U
118-74-1	Hexachlorobenzene		1.25	2.50	5.00	U
87-68-3	Hexachlorobutadiene		1.25	2.50	5.00	U
77-47-4	Hexachlorocyclopentadiene		1.25	2.50	5.00	U
67-72-1	Hexachloroethane		1.25	2.50	5.00	U
193-39-5	Indeno(1,2,3-cd)pyrene		1.25	2.50	5.00	U
78-59-1	Isophorone		1.25	2.50	5.00	U
90-12-0	1-Methylnaphthalene		1.25	2.50	5.00	U
91-57-6	2-Methylnaphthalene		1.25	2.50	5.00	U
95-48-7	2-Methylphenol		1.25	2.50	5.00	U
65794-96-9	3+4-Methylphenol		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline		5.00	10.0	20.0	X, U
99-09-2	3-Nitroaniline		5.00	10.0	20.0	U
88-74-4	2-Nitroaniline		5.00	10.0	20.0	U
98-95-3	Nitrobenzene		1.25	2.50	5.00	U
100-02-7	4-Nitrophenol		5.00	10.0	20.0	U
88-75-5	2-Nitrophenol		1.25	2.50	5.00	U
86-30-6	N-Nitrosodiphenylamine		1.25	2.50	5.00	U
621-64-7	N-Nitroso-di-n-propylamine		1.25	2.50	5.00	Y, U
87-86-5	Pentachlorophenol		5.00	10.0	20.0	U
85-01-8	Phenanthrene		1.25	2.50	5.00	U
108-95-2	Phenol		1.25	2.50	5.00	U
129-00-0	Pyrene		1.25	2.50	5.00	U
88-06-2	2,4,6-Trichlorophenol		1.25	2.50	5.00	U
95-95-4	2,4,5-Trichlorophenol		1.25	2.50	5.00	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	39.09	78.2	50 - 110	
2-Fluorophenol	100.0	42.96	43.0	20 - 110	
Nitrobenzene-d5	50.00	48.82	97.6	40 - 110	
Phenol-d6	100.0	25.42	25.4	10 - 110	
Terphenyl-d14	50.00	50.38	101	50 - 135	
2,4,6-Tribromophenol	100.0	92.67	92.7	40 - 125	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1C10022-BS1 File ID: C10022L1.D

Sampled: Prepared: Analyzed: 03/11/11 21:10

Solids: Preparation: EXT_3510 Dilution:

Batch: 1C10022 Sequence: 1C07307 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
91-94-1	3,3'-Dichlorobenzidine	34.26	1.25	2.50	5.00	Y
83-32-9	Acenaphthene	40.96	1.25	2.50	5.00	
208-96-8	Acenaphthylene	35.92	1.25	2.50	5.00	
98-86-2	Acetophenone	41.92	1.25	2.50	5.00	
120-12-7	Anthracene	47.94	1.25	2.50	5.00	
1912-24-9	Atrazine	50.27	1.25	2.50	5.00	
100-52-7	Benzaldehyde	42.06	1.25	2.50	5.00	Y
92-87-5	Benzidine		12.5	25.0	50.0	Y, U
56-55-3	Benzo(a)anthracene	46.08	1.25	2.50	5.00	
50-32-8	Benzo(a)pyrene	36.31	1.25	2.50	5.00	
205-99-2	Benzo(b)fluoranthene	47.41	1.25	2.50	5.00	
191-24-2	Benzo(g,h,i)perylene	39.69	1.25	2.50	5.00	
65-85-0	Benzoic acid	14.52	12.5	25.0	50.0	J
207-08-9	Benzo(k)fluoranthene	45.62	1.25	2.50	5.00	
92-52-4	1,1-Biphenyl	43.01	1.25	2.50	5.00	
101-55-3	4-Bromophenyl-phenylether	53.14	1.25	2.50	5.00	
85-68-7	Butylbenzylphthalate	53.25	1.25	2.50	5.00	
105-60-2	Caprolactam	7.672	1.25	2.50	5.00	
86-74-8	Carbazole	51.66	1.25	2.50	5.00	
59-50-7	4-Chloro-3-methylphenol	45.48	1.25	2.50	5.00	
106-47-8	4-Chloroaniline	34.85	1.25	2.50	5.00	
111-91-1	Bis(2-chloroethoxy)methane	55.38	1.25	2.50	5.00	
111-44-4	Bis(2-chloroethyl)ether	44.40	1.25	2.50	5.00	
108-60-1	2,2'-Oxybis-1-chloropropane	43.71	1.25	2.50	5.00	
91-58-7	2-Chloronaphthalene	39.97	1.25	2.50	5.00	
95-57-8	2-Chlorophenol	38.28	1.25	2.50	5.00	
7005-72-3	4-Chlorophenyl phenyl ether	44.51	1.25	2.50	5.00	
218-01-9	Chrysene	43.14	1.25	2.50	5.00	
53-70-3	Dibenz(a,h)anthracene	37.19	1.25	2.50	5.00	
132-64-9	Dibenzofuran	41.00	1.25	2.50	5.00	
84-74-2	Di-n-butylphthalate	53.71	1.25	2.50	5.00	
120-83-2	2,4-Dichlorophenol	48.50	1.25	2.50	5.00	
84-66-2	Diethylphthalate	54.27	1.25	2.50	5.00	
105-67-9	2,4-Dimethylphenol	40.03	5.00	10.0	20.0	
131-11-3	Dimethyl phthalate	49.91	1.25	2.50	5.00	
534-52-1	4,6-Dinitro-2-methylphenol	58.70	5.00	10.0	20.0	X
51-28-5	2,4-Dinitrophenol	58.50	12.5	25.0	50.0	X
121-14-2	2,4-Dinitrotoluene	48.11	1.25	2.50	5.00	
606-20-2	2,6-Dinitrotoluene	48.17	1.25	2.50	5.00	
117-84-0	Di-n-octylphthalate	63.65	1.25	2.50	5.00	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1C10022-BS1 File ID: C10022L1.D

Sampled: Prepared: Analyzed: 03/11/11 21:10

Solids: Preparation: EXT_3510 Dilution:

Batch: 1C10022 Sequence: 1C07307 Calibration: 1032006 Instrument: MS-BNA1

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
122-66-7	1,2-Diphenylhydrazine	49.63	1.25	2.50	5.00	
117-81-7	Bis(2-ethylhexyl)phthalate	52.06	1.25	2.50	5.00	
206-44-0	Fluoranthene	44.29	1.25	2.50	5.00	
86-73-7	Fluorene	44.22	1.25	2.50	5.00	
118-74-1	Hexachlorobenzene	49.64	1.25	2.50	5.00	
87-68-3	Hexachlorobutadiene	17.44	1.25	2.50	5.00	
77-47-4	Hexachlorocyclopentadiene	8.757	1.25	2.50	5.00	
67-72-1	Hexachloroethane	19.46	1.25	2.50	5.00	
193-39-5	Indeno(1,2,3-cd)pyrene	38.41	1.25	2.50	5.00	
78-59-1	Isophorone	37.35	1.25	2.50	5.00	
90-12-0	1-Methylnaphthalene	37.27	1.25	2.50	5.00	
91-57-6	2-Methylnaphthalene	42.95	1.25	2.50	5.00	
95-48-7	2-Methylphenol	32.06	1.25	2.50	5.00	
106-44-5	4-Methylphenol	27.62	1.25	2.50	5.00	
65794-96-9	3+4-Methylphenol		1.25	2.50	5.00	U
100-01-6	4-Nitroaniline	55.23	5.00	10.0	20.0	X
99-09-2	3-Nitroaniline	42.27	5.00	10.0	20.0	
88-74-4	2-Nitroaniline	52.26	5.00	10.0	20.0	
98-95-3	Nitrobenzene	47.80	1.25	2.50	5.00	
100-02-7	4-Nitrophenol	14.12	5.00	10.0	20.0	J
88-75-5	2-Nitrophenol	48.18	1.25	2.50	5.00	
86-30-6	N-Nitrosodiphenylamine	25.44	1.25	2.50	5.00	
621-64-7	N-Nitroso-di-n-propylamine	39.32	1.25	2.50	5.00	Y
87-86-5	Pentachlorophenol	55.27	5.00	10.0	20.0	
85-01-8	Phenanthrene	49.35	1.25	2.50	5.00	
108-95-2	Phenol	16.36	1.25	2.50	5.00	
129-00-0	Pyrene	56.12	1.25	2.50	5.00	
88-06-2	2,4,6-Trichlorophenol	46.67	1.25	2.50	5.00	
95-95-4	2,4,5-Trichlorophenol	47.46	1.25	2.50	5.00	

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
2-Fluorobiphenyl	50.00	42.34	84.7	50 - 110	
2-Fluorophenol	100.0	44.29	44.3	20 - 110	
Nitrobenzene-d5	50.00	47.71	95.4	40 - 110	
Phenol-d6	100.0	25.95	26.0	10 - 110	
Terphenyl-d14	50.00	55.87	112	50 - 135	
2,4,6-Tribromophenol	100.0	95.09	95.1	40 - 125	

HOLDING TIME SUMMARY

SW8270C

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_006

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
2819RC	03/09/11 13:27	03/10/11 08:45	03/11/11 10:45	1.80	7.00	03/11/11 22:35	0.49	40.00	

SW8015B (GRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1A02805	Instrument:	GL-GCVOA2
Calibration:	1028002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1A02805-CAL1	003F0301.D	01/27/11 18:33
Cal Standard	1A02805-CAL2	004F0401.D	01/27/11 19:08
Cal Standard	1A02805-CAL3	005F0501.D	01/27/11 19:44
Cal Standard	1A02805-CAL4	006F0601.D	01/27/11 20:20
Cal Standard	1A02805-CAL5	007F0701.D	01/27/11 20:55
Cal Standard	1A02805-CAL6	008F0801.D	01/27/11 21:31
Initial Cal Check	1A02805-ICV1	009F0901.D	01/27/11 22:07

ANALYSIS SEQUENCE SUMMARY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C07308	Instrument:	GL-GCVOA2
Calibration:	1028002		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1C07308-CCV1	003F0301.D	03/11/11 11:37
Calibration Check	1C07308-CCV3	030F3001.D	03/12/11 03:51
Blank	1C10016-BLK1	038F3801.D	03/12/11 08:35
LCS	1C10016-BS1	039F3901.D	03/12/11 09:10
LCS Dup	1C10016-BSD1	040F4001.D	03/12/11 09:45
GW0016	1103074-01	043F4301.D	03/12/11 11:31
2819RC	1103096-01	044F4401.D	03/12/11 12:06
GW0018	1103096-03	045F4501.D	03/12/11 12:41
Calibration Check	1C07308-CCV4	047F4701.D	03/12/11 13:52

ANALYSIS DATA SHEET

GW0016

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_006
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1103074-01	File ID:	043F4301.D
Sampled:	03/08/11 11:05	Prepared:	03/11/11 10:44	Analyzed:	03/12/11 11:31
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1C10016	Sequence:	1C07308	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04141	82.8	50 - 150	

ANALYSIS DATA SHEET

2819RC

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_006
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1103096-01	File ID:	044F4401.D
Sampled:	03/09/11 13:27	Prepared:	03/11/11 10:44	Analyzed:	03/12/11 12:06
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1C10016	Sequence:	1C07308	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04432	88.6	50 - 150	

ANALYSIS DATA SHEET

GW0018

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_006
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1103096-03	File ID:	045F4501.D
Sampled:	03/09/11 11:00	Prepared:	03/11/11 10:44	Analyzed:	03/12/11 12:41
Solids:		Preparation:	8015GRO	Dilution:	1
Batch:	1C10016	Sequence:	1C07308	Calibration:	1028002
Instrument:	GL-GCVOA2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.0947	0.0500	0.100	0.150	J

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04376	87.5	50 - 150	

LCS / LCS DUPLICATE RECOVERY

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C10016	Laboratory ID:	1C10016-BS1
Preparation:	8015GRO	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5354	107	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Gasoline Range Organics (C6-C10)	0.5000	0.5405	108	0.948	50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C10016 Batch Matrix: Water Preparation: 8015GRO

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0016	1103074-01	03/11/11 10:44	5.00	5.00
2819RC	1103096-01	03/11/11 10:44	5.00	5.00
GW0018	1103096-03	03/11/11 10:44	5.00	5.00
Blank	1C10016-BLK1	03/11/11 10:44	5.00	5.00
LCS	1C10016-BS1	03/11/11 10:44	5.00	5.00
LCS Dup	1C10016-BSD1	03/11/11 10:44	5.00	5.00

INITIAL CALIBRATION STANDARDS

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1A02805	Instrument:	GL-GCVOA2
Calibration:	1028002		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
11A0780	GRO Cal 0.1ppm	1A02805-CAL1	003F0301.D	01/27/11 18:33
11A0781	GRO Cal 0.2ppm	1A02805-CAL2	004F0401.D	01/27/11 19:08
11A0783	GRO Cal 0.5ppm	1A02805-CAL3	005F0501.D	01/27/11 19:44
11A0789	GRO Cal 1.0ppm	1A02805-CAL4	006F0601.D	01/27/11 20:20
11A0790	GRO Cal 2.0ppm	1A02805-CAL5	007F0701.D	01/27/11 20:55
11A0791	GRO Cal 5.0ppm	1A02805-CAL6	008F0801.D	01/27/11 21:31

INITIAL CALIBRATION DATA

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1028002	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	1/27/11 18:33	1/27/11 21:31

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF	ug/mL	RF
Gasoline Range Organics (C6-C10	5	2516042	2	2730054	1	2493619	0.5	2526354	0.2	3408960	0.1	3753180
Bromofluorobenzene	0.5	1483418	0.2	1700855	0.1	1733590	0.05	1558880	0.02	1723950	0.01	1745400

INITIAL CALIBRATION DATA (Continued)

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006	
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011	
Calibration:	1028002	Instrument:	GL-GCVOA2	
Matrix:	Water	Calibration Dates:	1/27/11 18:33	1/27/11 21:31

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Gasoline Range Organics (C6-C10)	2904701	18.65348	7.287	1.259059E-02			20	
Bromofluorobenzene	1657682	6.599566	19.57967	2.614775E-02			20	

INITIAL CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	009F0901.D	Calibration Date:	01/27/11 18:33
Sequence:	1A02805	Injection Date:	01/27/11
Lab Sample ID:	1A02805-ICV1	Injection Time:	22:07

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5128	2904701	2979066		2.6	20
Bromofluorobenzene	A	0.05000	0.05836	1657682	1934860		16.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	003F0301.D	Calibration Date:	01/27/11 18:33
Sequence:	1C07308	Injection Date:	03/11/11
Lab Sample ID:	1C07308-CCV1	Injection Time:	11:37

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.4723	2904701	2743902		-5.5	20
Bromofluorobenzene	A	0.05000	0.04523	1657682	1499580		-9.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	030F3001.D	Calibration Date:	01/27/11 18:33
Sequence:	1C07308	Injection Date:	03/12/11
Lab Sample ID:	1C07308-CCV3	Injection Time:	03:51

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.5024	2904701	2918450		0.5	20
Bromofluorobenzene	A	0.05000	0.04586	1657682	1520600		-8.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B GRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCVOA2	Calibration:	1028002
Lab File ID:	047F4701.D	Calibration Date:	01/27/11 18:33
Sequence:	1C07308	Injection Date:	03/12/11
Lab Sample ID:	1C07308-CCV4	Injection Time:	13:52

		CONC. (ug/mL)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Gasoline Range Organics (C6-C10)	A	0.5000	0.4975	2904701	2889954		-0.5	20
Bromofluorobenzene	A	0.05000	0.04649	1657682	1541340		-7.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C07308
Instrument: GL-GCVOA2
Calibration: 1028002

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C07308-CCV1) ug/mL				Lab File ID: 003F0301.D		Analyzed: 03/11/11 11:37		
Bromofluorobenzene	0.05000	90.5	80 - 120	19.573	19.573	0.0000	+/-0.210	
Calibration Check (1C07308-CCV3) ug/mL				Lab File ID: 030F3001.D		Analyzed: 03/12/11 03:51		
Bromofluorobenzene	0.05000	91.7	80 - 120	19.586	19.573	0.0130	+/-0.210	
Blank (1C10016-BLK1) mg/L				Lab File ID: 038F3801.D		Analyzed: 03/12/11 08:35		
Bromofluorobenzene	0.05000	89.7	50 - 150	19.576	19.573	0.0030	+/-0.210	
LCS (1C10016-BS1) mg/L				Lab File ID: 039F3901.D		Analyzed: 03/12/11 09:10		
Bromofluorobenzene	0.05000	93.8	50 - 150	19.576	19.573	0.0030	+/-0.210	
LCS Dup (1C10016-BSD1) mg/L				Lab File ID: 040F4001.D		Analyzed: 03/12/11 09:45		
Bromofluorobenzene	0.05000	92.4	50 - 150	19.573	19.573	0.0000	+/-0.210	
GW0016 (1103074-01) mg/L				Lab File ID: 043F4301.D		Analyzed: 03/12/11 11:31		
Bromofluorobenzene	0.05000	82.8	50 - 150	19.58	19.573	0.0070	+/-0.210	
2819RC (1103096-01) mg/L				Lab File ID: 044F4401.D		Analyzed: 03/12/11 12:06		
Bromofluorobenzene	0.05000	88.6	50 - 150	19.576	19.573	0.0030	+/-0.210	
GW0018 (1103096-03) mg/L				Lab File ID: 045F4501.D		Analyzed: 03/12/11 12:41		
Bromofluorobenzene	0.05000	87.5	50 - 150	19.58	19.573	0.0070	+/-0.210	
Calibration Check (1C07308-CCV4) ug/mL				Lab File ID: 047F4701.D		Analyzed: 03/12/11 13:52		
Bromofluorobenzene	0.05000	93.0	80 - 120	19.58	19.573	0.0070	+/-0.210	

HOLDING TIME SUMMARY

SW8015B GRO

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_006

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0016	03/08/11 11:05	03/09/11 08:45	03/11/11 10:44	N/A	14.00	03/12/11 11:31	3.93	14.00	
2819RC	03/09/11 13:27	03/10/11 08:45	03/11/11 10:44	N/A	14.00	03/12/11 12:06	2.86	14.00	
GW0018	03/09/11 11:00	03/10/11 08:45	03/11/11 10:44	N/A	14.00	03/12/11 12:41	2.99	14.00	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1C10016-BLK1 File ID: 038F3801.D

Sampled: Prepared: Analyzed: 03/12/11 08:35

Solids: Preparation: 8015GRO Dilution:

Batch: 1C10016 Sequence: 1C07308 Calibration: 1028002 Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)		0.0500	0.100	0.150	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04483	89.7	50 - 150	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1C10016-BS1
File ID: 039F3901.D
Sampled:
Prepared:
Analyzed: 03/12/11 09:10
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1C10016
Sequence: 1C07308
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5354	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04690	93.8	50 - 150	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1C10016-BSD1
File ID: 040F4001.D
Sampled:
Prepared:
Analyzed: 03/12/11 09:45
Solids:
Preparation: 8015GRO
Dilution:
Batch: 1C10016
Sequence: 1C07308
Calibration: 1028002
Instrument: GL-GCVOA2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
8006-61-9	Gasoline Range Organics (C6-C10)	0.5405	0.0500	0.100	0.150	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
Bromofluorobenzene	0.05000	0.04618	92.4	50 - 150	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Instrument: GL-GCVOA2

Analyte	MDL	MRL	Units	Method
Gasoline Range Organics (C6-C10)	0.0500	0.150	mg/L	SW8015B GRO

SW8015B (DRO)
Forms

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C07403	Instrument:	GL-GCFID2
Calibration:	1074001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1C07403-CAL6	004F0401.D	03/13/11 20:26
Cal Standard	1C07403-CAL5	005F0501.D	03/13/11 20:59
Cal Standard	1C07403-CAL4	006F0601.D	03/13/11 21:32
Cal Standard	1C07403-CAL3	007F0701.D	03/13/11 22:05
Cal Standard	1C07403-CAL2	008F0801.D	03/13/11 22:39
Cal Standard	1C07403-CAL1	009F0901.D	03/13/11 23:13
Initial Cal Check	1C07403-ICV1	010F1001.D	03/13/11 23:47

ANALYSIS SEQUENCE SUMMARY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C07507	Instrument:	GL-GCFID2
Calibration:	1074001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1C07507-CCV1	003F0301.D	03/15/11 17:27
Blank	1C11012-BLK1	004F0401.D	03/15/11 18:08
LCS	1C11012-BS1	005F0501.D	03/15/11 18:41
LCS Dup	1C11012-BSD1	006F0601.D	03/15/11 19:14
GW0016	1103074-01	007F0701.D	03/15/11 19:47
2819RC	1103096-01	008F0801.D	03/15/11 20:20
GW0018	1103096-03	009F0901.D	03/15/11 20:53
Calibration Check	1C07507-CCV2	011F1101.D	03/15/11 21:59

ANALYSIS DATA SHEET

GW0016

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_006
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1103074-01	File ID:	007F0701.D
Sampled:	03/08/11 11:05	Prepared:	03/14/11 10:20	Analyzed:	03/15/11 19:47
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1C11012	Sequence:	1C07507	Calibration:	1074001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0943	0.0943	0.0943	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01887	0.01954	104	30 - 140	

ANALYSIS DATA SHEET

2819RC

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_006
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1103096-01	File ID:	008F0801.D
Sampled:	03/09/11 13:27	Prepared:	03/14/11 10:20	Analyzed:	03/15/11 20:20
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1C11012	Sequence:	1C07507	Calibration:	1074001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0926	0.0926	0.0926	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01852	0.02052	111	30 - 140	

ANALYSIS DATA SHEET

GW0018

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_006
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1103096-03	File ID:	009F0901.D
Sampled:	03/09/11 11:00	Prepared:	03/14/11 10:20	Analyzed:	03/15/11 20:53
Solids:		Preparation:	EXT_3510	Dilution:	1
Batch:	1C11012	Sequence:	1C07507	Calibration:	1074001
Instrument:	GL-GCFID2				

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.0935	0.0935	0.0935	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.01869	0.01752	93.7	30 - 140	

LCS / LCS DUPLICATE RECOVERY

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C11012	Laboratory ID:	1C11012-BS1
Preparation:	EXT_3510	Initial/Final:	1000 mL / 1 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.7323	73.2	50 - 150

ANALYTE	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Diesel Range Organics (C10-C28)	1.000	0.7147	71.5	2.43	50	50 - 150

PREPARATION BATCH SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C11012 Batch Matrix: Water Preparation: EXT_3510

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0016	1103074-01	03/14/11 10:20	1,060.00	1.00
2819RC	1103096-01	03/14/11 10:20	1,080.00	1.00
GW0018	1103096-03	03/14/11 10:20	1,070.00	1.00
Blank	1C11012-BLK1	03/14/11 10:20	1,000.00	1.00
LCS	1C11012-BS1	03/14/11 10:20	1,000.00	1.00
LCS Dup	1C11012-BSD1	03/14/11 10:20	1,000.00	1.00

INITIAL CALIBRATION STANDARDS

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C07403	Instrument:	GL-GCFID2
Calibration:	1074001		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10K0188	DRO ICAL6@100ppm	1C07403-CAL6	004F0401.D	03/13/11 20:26
10K0189	DRO ICAL5@250ppm	1C07403-CAL5	005F0501.D	03/13/11 20:59
10K0190	DRO ICAL4@500ppm	1C07403-CAL4	006F0601.D	03/13/11 21:32
10K0192	DRO ICAL3@1000ppm	1C07403-CAL3	007F0701.D	03/13/11 22:05
10K0193	DRO ICAL2@2500ppm	1C07403-CAL2	008F0801.D	03/13/11 22:39
10K0194	DRO ICAL1@5000ppm	1C07403-CAL1	009F0901.D	03/13/11 23:13

INITIAL CALIBRATION DATA

SW8015B DRO

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1074001
Instrument: GL-GCFID2
Matrix: Water
Calibration Dates: 3/13/11 20:26 3/13/11 23:13

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF	mg/L	RF
Diesel Range Organics (C10-C28)	100	1538.98	250	1289.204	500	1144.188	1000	1192.948	2500	1326.414	5000	1161.079
Diesel Range Organics (C8-C40)	100	1645.98	250	1361.136	500	1203.648	1000	1256.137	2500	1409.216	5000	1239.013
o-Terphenyl	5	894	12.5	1022.08	25	1066.2	50	1230.08	125	1248.968	250	1342.916

INITIAL CALIBRATION DATA (Continued)

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1074001	Instrument:	GL-GCFID2
Matrix:	Water	Calibration Dates:	3/13/11 20:26 3/13/11 23:13

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Diesel Range Organics (C10-C28)	1275.469	11.59465	4.6	2.027401E-02			20	
Diesel Range Organics (C8-C40)	1352.522	12.09226	2.95	9.245392E-03			20	
o-Terphenyl	1134.041	14.79841	8.212833	0.1474887			20	

INITIAL CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1074001
Lab File ID:	010F1001.D	Calibration Date:	03/13/11 00:00
Sequence:	1C07403	Injection Date:	03/13/11
Lab Sample ID:	1C07403-ICV1	Injection Time:	23:47

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1016	1275.469	1296.052		1.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1074001
Lab File ID:	003F0301.D	Calibration Date:	03/13/11 00:00
Sequence:	1C07507	Injection Date:	03/15/11
Lab Sample ID:	1C07507-CCV1	Injection Time:	17:27

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	985.6	1275.469	1257.139		-1.4	20
o-Terphenyl	A	50.00	56.76	1134.041	1287.28		13.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8015B DRO

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-GCFID2	Calibration:	1074001
Lab File ID:	011F1101.D	Calibration Date:	03/13/11 00:00
Sequence:	1C07507	Injection Date:	03/15/11
Lab Sample ID:	1C07507-CCV2	Injection Time:	21:59

		CONC. (mg/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Diesel Range Organics (C10-C28)	A	1000	1013	1275.469	1292.119		1.3	20
o-Terphenyl	A	50.00	58.19	1134.041	1319.84		16.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

SURROGATE STANDARD RECOVERY AND RT SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C07507
Instrument: GL-GCFID2
Calibration: 1074001

Surrogate Compound	Spike Level	% Recovery	Recovery Limits	RT	CCV RT	RT Diff	RT Diff Limit	Q
Calibration Check (1C07507-CCV1) mg/L				Lab File ID: 003F0301.D		Analyzed: 03/15/11 17:27		
o-Terphenyl	50.00	114	80 - 120	8.223	8.223	0.0000	+/-0.050	
Blank (1C11012-BLK1) mg/L				Lab File ID: 004F0401.D		Analyzed: 03/15/11 18:08		
o-Terphenyl	0.02000	91.0	30 - 140	8.28	8.223	0.0570	+/-0.050	*
LCS (1C11012-BS1) mg/L				Lab File ID: 005F0501.D		Analyzed: 03/15/11 18:41		
o-Terphenyl	0.02000	93.5	30 - 140	8.226	8.223	0.0030	+/-0.050	
LCS Dup (1C11012-BSD1) mg/L				Lab File ID: 006F0601.D		Analyzed: 03/15/11 19:14		
o-Terphenyl	0.02000	89.7	30 - 140	8.233	8.223	0.0100	+/-0.050	
GW0016 (1103074-01) mg/L				Lab File ID: 007F0701.D		Analyzed: 03/15/11 19:47		
o-Terphenyl	0.01887	104	30 - 140	8.256	8.223	0.0330	+/-0.050	
2819RC (1103096-01) mg/L				Lab File ID: 008F0801.D		Analyzed: 03/15/11 20:20		
o-Terphenyl	0.01852	111	30 - 140	8.276	8.223	0.0530	+/-0.050	*
GW0018 (1103096-03) mg/L				Lab File ID: 009F0901.D		Analyzed: 03/15/11 20:53		
o-Terphenyl	0.01869	93.7	30 - 140	8.27	8.223	0.0470	+/-0.050	
Calibration Check (1C07507-CCV2) mg/L				Lab File ID: 011F1101.D		Analyzed: 03/15/11 21:59		
o-Terphenyl	50.00	116	80 - 120	8.216	8.223	-0.0070	+/-0.050	

HOLDING TIME SUMMARY

SW8015B DRO

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_006

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
GW0016	03/08/11 11:05	03/09/11 08:45	03/14/11 10:20	5.89	7.00	03/15/11 19:47	1.39	40.00	
2819RC	03/09/11 13:27	03/10/11 08:45	03/14/11 10:20	4.79	7.00	03/15/11 20:20	1.42	40.00	
GW0018	03/09/11 11:00	03/10/11 08:45	03/14/11 10:20	4.89	7.00	03/15/11 20:53	1.44	40.00	

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1C11012-BLK1
File ID: 004F0401.D
Sampled:
Prepared:
Analyzed: 03/15/11 18:08
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1C11012
Sequence: 1C07507
Calibration: 1074001
Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)		0.100	0.100	0.100	U

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01820	91.0	30 - 140	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1C11012-BS1
File ID: 005F0501.D
Sampled:
Prepared:
Analyzed: 03/15/11 18:41
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1C11012
Sequence: 1C07507
Calibration: 1074001
Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.7323	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01870	93.5	30 - 140	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1C11012-BSD1
File ID: 006F0601.D
Sampled:
Prepared:
Analyzed: 03/15/11 19:14
Solids:
Preparation: EXT_3510
Dilution:
Batch: 1C11012
Sequence: 1C07507
Calibration: 1074001
Instrument: GL-GCFID2

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
11-84-7	Diesel Range Organics (C10-C28)	0.7147	0.100	0.100	0.100	

SYSTEM MONITORING COMPOUND	ADDED (mg/L)	CONC (mg/L)	% REC	QC LIMITS	Q
o-Terphenyl	0.02000	0.01795	89.7	30 - 140	

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_006

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** GL-GCFID2

Analyte	MDL	MRL	Units	Method
Diesel Range Organics (C10-C28)	0.100	0.100	mg/L	SW8015B DRO

Data for SW8011 Forms

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0L34409	Instrument:	GL-ECD2
Calibration:	0344003		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0L34409-CAL1	002R0101.D	12/09/10 14:14
Cal Standard	0L34409-CAL1	002F0101.D	12/09/10 14:14
Cal Standard	0L34409-CAL2	003F0101.D	12/09/10 14:35
Cal Standard	0L34409-CAL2	003R0101.D	12/09/10 14:35
Cal Standard	0L34409-CAL3	004F0101.D	12/09/10 14:56
Cal Standard	0L34409-CAL3	004R0101.D	12/09/10 14:56
Cal Standard	0L34409-CAL4	005R0101.D	12/09/10 15:17
Cal Standard	0L34409-CAL4	005F0101.D	12/09/10 15:17
Cal Standard	0L34409-CAL5	006R0101.D	12/09/10 15:38
Cal Standard	0L34409-CAL5	006F0101.D	12/09/10 15:38
Cal Standard	0L34409-CAL6	007F0101.D	12/09/10 16:00
Cal Standard	0L34409-CAL6	007R0101.D	12/09/10 16:00
Cal Standard	0L34409-CAL7	008F0101.D	12/09/10 16:21
Cal Standard	0L34409-CAL7	008R0101.D	12/09/10 16:21
Cal Standard	0L34409-CAL8	009F0101.D	12/09/10 16:42
Cal Standard	0L34409-CAL8	009R0101.D	12/09/10 16:42
Initial Cal Check	0L34409-ICV1	010R0101.D	12/09/10 17:04
Initial Cal Check	0L34409-ICV1	010F0101.D	12/09/10 17:04

ANALYSIS SEQUENCE SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C08501
Instrument: GL-ECD2
Calibration: 0344003

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1C08501-CCV1	002R0101.D	03/25/11 18:46
Calibration Check	1C08501-CCV1	002F0101.D	03/25/11 18:46
Blank	1C22018-BLK1	004R0101.D	03/25/11 19:28
LCS	1C22018-BS1	005R0101.D	03/25/11 19:49
LCS	1C22018-BS1	005F0101.D	03/25/11 19:49
LCS Dup	1C22018-BSD1	006R0101.D	03/25/11 20:11
LCS Dup	1C22018-BSD1	006F0101.D	03/25/11 20:11
GW0016	1103074-01	007F0101.D	03/25/11 20:32
2819RC	1103096-01	008R0101.D	03/25/11 20:53
GW0018	1103096-03	009R0101.D	03/25/11 21:14
GW0018	1103096-03	009F0101.D	03/25/11 21:14
Calibration Check	1C08501-CCV2	010R0101.D	03/25/11 21:35
Calibration Check	1C08501-CCV2	010F0101.D	03/25/11 21:35

ANALYSIS DATA SHEET

GW0016

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_006
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1103074-01	File ID:	007F0101.D
Sampled:	03/08/11 11:05	Prepared:	03/22/11 15:06	Analyzed:	03/25/11 20:32
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1C22018	Sequence:	1C08501	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00936	0.0187	0.0281	UH1

* Values outside of QC limits

ANALYSIS DATA SHEET

2819RC

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_006
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1103096-01	File ID:	008R0101.D
Sampled:	03/09/11 13:27	Prepared:	03/22/11 15:06	Analyzed:	03/25/11 20:53
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1C22018	Sequence:	1C08501	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.00944	0.0189	0.0283	UH1

* Values outside of QC limits

ANALYSIS DATA SHEET

GW0018

Laboratory:	Empirical Laboratories, LLC			SDG:	kirtland_006
Client:	Shaw E & I (I700)			Project:	Kirtland AFB 2011
Matrix:	Water	Laboratory ID:	1103096-03	File ID:	009F0101.D
Sampled:	03/09/11 11:00	Prepared:	03/22/11 15:06	Analyzed:	03/25/11 21:14
Solids:		Preparation:	EDB	Dilution:	1
Batch:	1C22018	Sequence:	1C08501	Calibration:	0344003
Instrument:	GL-ECD2				

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.730	0.00937	0.0187	0.0281	H1

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C22018	Laboratory ID:	1C22018-BS1
Preparation:	EDB	Initial/Final:	35 mL / 35 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.3929	78.6	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4683	93.7	70 - 130

ANALYTE	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dibromoethane	0.5000	0.3717	74.3	5.56	20	70 - 130
1,2-Dibromoethane [2C]	0.5000	0.4806	96.1	2.60	20	70 - 130

PREPARATION BATCH SUMMARY

SW8011

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C22018 Batch Matrix: Water Preparation: EDB

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0016	1103074-01	03/22/11 15:06	37.39	35.00
2819RC	1103096-01	03/22/11 15:06	37.07	35.00
GW0018	1103096-03	03/22/11 15:06	37.37	35.00
Blank	1C22018-BLK1	03/22/11 15:06	35.00	35.00
LCS	1C22018-BS1	03/22/11 15:06	35.00	35.00
LCS Dup	1C22018-BSD1	03/22/11 15:06	35.00	35.00

ANALYSIS DATA SHEET

Blank

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1C22018-BLK1 File ID: 004R0101.D

Sampled: Prepared: 03/22/11 15:06 Analyzed: 03/25/11 19:28

Solids: Preparation: EDB Dilution:

Batch: 1C22018 Sequence: 1C08501 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane		0.0100	0.0200	0.0300	U

* Values outside of QC limits

INITIAL CALIBRATION STANDARDS

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	0L34409	Instrument:	GL-ECD2
Calibration:	0344003		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
10L0344	EDB ICAL 1 (0.03ppb)	0L34409-CAL1	002R0101.D	12/09/10 14:14
10L0344	EDB ICAL 1 (0.03ppb)	0L34409-CAL1	002F0101.D	12/09/10 14:14
10L0345	EDB ICAL 2 (0.05ppb)	0L34409-CAL2	003F0101.D	12/09/10 14:35
10L0345	EDB ICAL 2 (0.05ppb)	0L34409-CAL2	003R0101.D	12/09/10 14:35
10L0346	EDB ICAL 3 (0.10ppb)	0L34409-CAL3	004F0101.D	12/09/10 14:56
10L0346	EDB ICAL 3 (0.10ppb)	0L34409-CAL3	004R0101.D	12/09/10 14:56
10L0347	EDB ICAL 4 (0.15ppb)	0L34409-CAL4	005R0101.D	12/09/10 15:17
10L0347	EDB ICAL 4 (0.15ppb)	0L34409-CAL4	005F0101.D	12/09/10 15:17
10L0348	EDB ICAL 5 (0.20ppb)	0L34409-CAL5	006R0101.D	12/09/10 15:38
10L0348	EDB ICAL 5 (0.20ppb)	0L34409-CAL5	006F0101.D	12/09/10 15:38
10L0349	EDB ICAL 6 (0.40ppb)	0L34409-CAL6	007F0101.D	12/09/10 16:00
10L0349	EDB ICAL 6 (0.40ppb)	0L34409-CAL6	007R0101.D	12/09/10 16:00
10L0350	EDB ICAL 7 (0.50ppb)	0L34409-CAL7	008F0101.D	12/09/10 16:21
10L0350	EDB ICAL 7 (0.50ppb)	0L34409-CAL7	008R0101.D	12/09/10 16:21
10L0351	EDB ICAL 8 (1.00ppb)	0L34409-CAL8	009R0101.D	12/09/10 16:42
10L0351	EDB ICAL 8 (1.00ppb)	0L34409-CAL8	009F0101.D	12/09/10 16:42

INITIAL CALIBRATION DATA

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 2:14:04PM

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	1	14540	0.5	15516	0.4	15402.5	0.2	16590	0.15	15980	0.1	~~17600~~
1,2-Dibromoethane [2C]	1	29076	0.5	33560	0.4	33402.5	0.2	38785	0.15	37866.67	0.1	~~42050~~
1,2-Dibromo-3-chloropropane	1	24442	0.5	28986	0.4	28852.5	0.2	31650	0.15	31693.33	0.1	~~45080~~
1,2-Dibromo-3-chloropropane [2C]	1	69695	0.5	78930	0.4	76647.5	0.2	85730	0.15	88033.34	0.1	~~105450~~

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 0344003
Instrument: GL-ECD2
Matrix: Water
Calibration Date: 12/9/2010 2:14:04PM

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dibromoethane	0.05	23100	0.03	21300								
1,2-Dibromoethane [2C]	0.05	45260	0.03	42333.33								
1,2-Dibromo-3-chloropropane	0.05	52760	0.03	51166.67								
1,2-Dibromo-3-chloropropane [2C]	0.05	155180	0.03	148933.3								

INITIAL CALIBRATION DATA (Continued)

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	0344003	Instrument:	GL-ECD2
Matrix:	Water	Calibration Date:	12/9/2010 2:14:04PM

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,2-Dibromoethane	17489.79	18.96825	1.543	1.749237E-02		0.9996372	CCC ()	*
1,2-Dibromoethane [2C]	37183.36	15.05167	0.583	2.248094E-02		0.9995717	CCC ()	*
1,2-Dibromo-3-chloropropane	35650.07	32.01128	6.973	2.748517E-02		0.9987968	CCC ()	*
1,2-Dibromo-3-chloropropane [2C]	100449.9	35.64558	4.139286	5.910871E-02		0.9986728	CCC ()	*

INITIAL CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	010F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	0L34409	Injection Date:	12/09/10
Lab Sample ID:	0L34409-ICV1	Injection Time:	17:04

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN (#)	ICV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4746	17489.79	14620		-5.1	20
1,2-Dibromoethane [2C]	Q	0.5000	0.4584	37183.36	30824		-8.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	002F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1C08501	Injection Date:	03/25/11
Lab Sample ID:	1C08501-CCV1	Injection Time:	18:46

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4218	17489.79	13100		-15.6	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5061	37183.36	33504		1.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

SW8011

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Instrument ID:	GL-ECD2	Calibration:	0344003
Lab File ID:	010F0101.D	Calibration Date:	12/09/10 14:14
Sequence:	1C08501	Injection Date:	03/25/11
Lab Sample ID:	1C08501-CCV2	Injection Time:	21:35

		CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
1,2-Dibromoethane	Q	0.5000	0.4162	17489.79	12938		-16.8	20
1,2-Dibromoethane [2C]	Q	0.5000	0.5312	37183.36	34888		6.2	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1C22018-BS1
File ID: 005F0101.D
Sampled:
Prepared:
Analyzed: 03/25/11 19:49
Solids:
Preparation: EDB
Dilution:
Batch: 1C22018
Sequence: 1C08501
Calibration: 0344003
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.3929	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1C22018-BS1 File ID: 005R0101.D

Sampled: Prepared: Analyzed: 03/25/11 19:49

Solids: Preparation: EDB Dilution:

Batch: 1C22018 Sequence: 1C08501 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.4683	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Matrix: Laboratory ID: 1C22018-BSD1 File ID: 006F0101.D

Sampled: Prepared: Analyzed: 03/25/11 20:11

Solids: Preparation: EDB Dilution:

Batch: 1C22018 Sequence: 1C08501 Calibration: 0344003 Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane	0.3717	0.0100	0.0200	0.0300	

ANALYSIS DATA SHEET

LCS Dup

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix:
Laboratory ID: 1C22018-BSD1
File ID: 006R0101.D
Sampled:
Prepared:
Analyzed: 03/25/11 20:11
Solids:
Preparation: EDB
Dilution:
Batch: 1C22018
Sequence: 1C08501
Calibration: 0344003
Instrument: GL-ECD2

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
106-93-4	1,2-Dibromoethane [2C]	0.4806	0.0100	0.0200	0.0300	

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

GW0018

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1103096-03 Date(s) Analyzed: 03/25/2011 03/25/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.543	
	2	0.58	0.55	0.61	0.730	30

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1C22018-BS1 Date(s) Analyzed: 03/25/2011 03/25/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.3929	
	2	0.58	0.55	0.61	0.4683	18

FORM X
IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES

LCS Dup

Lab Name: Empirical Laboratories, LLC

Lab Sample ID: 1C22018-BSD1 Date(s) Analyzed: 03/25/2011 03/25/2011

Instrument ID (1): GL-ECD2 Instrument ID (2): GL-ECD2

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
1,2-Dibromoethane	1	1.54	1.51	1.57	0.3717	
	2	0.58	0.55	0.61	0.4806	26

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_006

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** GL-ECD2

Analyte	MDL	MRL	Units	Method
1,2-Dibromoethane	0.0100	0.0300	ug/L	SW8011

Data for SW6010B Forms

ANALYSIS DATA SHEET

GW0016

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 03/08/11 11:05
% Solids: 0.00

SDG: kirtland_006
Project: Kirtland AFB 2011
Laboratory ID: 1103074-01
Received: 03/09/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	41200	1000	2000	5000	1		SW6010B	1C22002	03/23/11 15:44
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C22002	03/23/11 15:44
7439-95-4	Magnesium	4790	1000	3000	5000	1	J	SW6010B	1C22002	03/23/11 15:44
7440-09-7	Potassium	1970	1000	3000	5000	1	J	SW6010B	1C22002	03/23/11 15:44
7440-23-5	Sodium	18900	1000	3000	5000	1		SW6010B	1C22002	03/23/11 15:44

ANALYSIS DATA SHEET

GW0016

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 03/08/11 11:05
% Solids: 0.00

SDG: kirtland_006
Project: Kirtland AFB 2011
Laboratory ID: 1103074-02
Received: 03/09/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1C22002	03/23/11 15:49
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1C22002	03/23/11 15:49

ANALYSIS DATA SHEET

2819RC

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 03/09/11 13:27
% Solids: 0.00

SDG: kirtland_006
Project: Kirtland AFB 2011
Laboratory ID: 1103096-01
Received: 03/10/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	41800	1000	2000	5000	1		SW6010B	1C24004	03/25/11 13:43
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C24004	03/25/11 13:43
7439-95-4	Magnesium	5020	1000	3000	5000	1		SW6010B	1C24004	03/25/11 13:43
7440-09-7	Potassium	2200	1000	3000	5000	1	J	SW6010B	1C24004	03/25/11 13:43
7440-23-5	Sodium	22400	1000	3000	5000	1		SW6010B	1C24004	03/25/11 13:43

ANALYSIS DATA SHEET

2819RC

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 03/09/11 13:27
% Solids: 0.00

SDG: kirtland_006
Project: Kirtland AFB 2011
Laboratory ID: 1103096-02
Received: 03/10/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1C28002	03/28/11 14:06
7439-96-5	Manganese (dissolved)		3.00	6.00	15.0	1	U	SW6010B	1C28002	03/28/11 14:06

ANALYSIS DATA SHEET

GW0018

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 03/09/11 11:00
% Solids: 0.00

SDG: kirtland_006
Project: Kirtland AFB 2011
Laboratory ID: 1103096-03
Received: 03/10/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7440-70-2	Calcium	40300	1000	2000	5000	1		SW6010B	1C24004	03/25/11 13:48
7439-92-1	Lead		1.50	3.00	3.00	1	U	SW6010B	1C24004	03/25/11 13:48
7439-95-4	Magnesium	5350	1000	3000	5000	1		SW6010B	1C24004	03/25/11 13:48
7440-09-7	Potassium	2230	1000	3000	5000	1	J	SW6010B	1C24004	03/25/11 13:48
7440-23-5	Sodium	23800	1000	3000	5000	1		SW6010B	1C24004	03/25/11 13:48

ANALYSIS DATA SHEET

GW0018

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 03/09/11 11:00
% Solids: 0.00

SDG: kirtland_006
Project: Kirtland AFB 2011
Laboratory ID: 1103096-04
Received: 03/10/11 08:45

CAS NO.	Analyte	Conc. (ug/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7439-89-6	Iron (dissolved)		30.0	60.0	100	1	U	SW6010B	1C24004	03/25/11 13:52
7439-96-5	Manganese (dissolved)	43.3	3.00	6.00	15.0	1		SW6010B	1C24004	03/25/11 13:52

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
SDG: kirtland_006
Project: Kirtland AFB 2011
Calibration: 1082004
Sequence: 1C08211

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1C08211-ICV1	Calcium	50000	49980	100	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9957	99.6	ug/L	+/- 10.00%
	Lead	1000	1017	102	ug/L	+/- 10.00%
	Magnesium	50000	47700	95.4	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1062	106	ug/L	+/- 10.00%
	Potassium	10000	9423	94.2	ug/L	+/- 10.00%
	Sodium	50000	50280	101	ug/L	+/- 10.00%
1C08211-CCV1	Calcium	50000	50660	101	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9974	99.7	ug/L	+/- 10.00%
	Lead	1000	1021	102	ug/L	+/- 10.00%
	Magnesium	50000	48280	96.6	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1045	104	ug/L	+/- 10.00%
	Potassium	10000	9651	96.5	ug/L	+/- 10.00%
	Sodium	50000	49300	98.6	ug/L	+/- 10.00%
1C08211-CCV4	Calcium	50000	51680	103	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10460	105	ug/L	+/- 10.00%
	Lead	1000	908.9	90.9	ug/L	+/- 10.00%
	Magnesium	50000	46470	92.9	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1011	101	ug/L	+/- 10.00%
	Potassium	10000	9173	91.7	ug/L	+/- 10.00%
	Sodium	50000	48890	97.8	ug/L	+/- 10.00%
1C08211-CCV5	Calcium	50000	48480	97.0	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9888	98.9	ug/L	+/- 10.00%
	Lead	1000	972.9	97.3	ug/L	+/- 10.00%
	Magnesium	50000	46540	93.1	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1026	103	ug/L	+/- 10.00%
	Potassium	10000	9239	92.4	ug/L	+/- 10.00%
	Sodium	50000	45760	91.5	ug/L	+/- 10.00%
1C08211-CCV6	Calcium	50000	51090	102	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10270	103	ug/L	+/- 10.00%
	Lead	1000	903.2	90.3	ug/L	+/- 10.00%
	Magnesium	50000	46430	92.9	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1000	100	ug/L	+/- 10.00%
	Potassium	**10000**	**8973**	**89.7**	**ug/L**	+/- 10.00%
	Sodium	50000	47300	94.6	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
SDG: kirtland_006
Project: Kirtland AFB 2011
Calibration: 1087004
Sequence: 1C08706

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1C08706-ICV1	Calcium	50000	51030	102	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10300	103	ug/L	+/- 10.00%
	Lead	1000	1021	102	ug/L	+/- 10.00%
	Magnesium	50000	48220	96.4	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1052	105	ug/L	+/- 10.00%
	Potassium	10000	9379	93.8	ug/L	+/- 10.00%
	Sodium	50000	51010	102	ug/L	+/- 10.00%
1C08706-CCV1	Calcium	50000	52490	105	ug/L	+/- 10.00%
	Iron (dissolved)	**10000**	**11080**	**111**	**ug/L**	+/- 10.00%
	Lead	1000	957.9	95.8	ug/L	+/- 10.00%
	Magnesium	50000	48060	96.1	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	982.2	98.2	ug/L	+/- 10.00%
	Potassium	10000	9891	98.9	ug/L	+/- 10.00%
	Sodium	50000	51340	103	ug/L	+/- 10.00%
1C08706-CCV2	Calcium	50000	51320	103	ug/L	+/- 10.00%
	Iron (dissolved)	10000	10200	102	ug/L	+/- 10.00%
	Lead	1000	1021	102	ug/L	+/- 10.00%
	Magnesium	50000	48310	96.6	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1060	106	ug/L	+/- 10.00%
	Potassium	10000	9835	98.4	ug/L	+/- 10.00%
	Sodium	50000	50650	101	ug/L	+/- 10.00%
1C08706-CCV3	Calcium	50000	50180	100	ug/L	+/- 10.00%
	Iron (dissolved)	10000	9989	99.9	ug/L	+/- 10.00%
	Lead	1000	1037	104	ug/L	+/- 10.00%
	Magnesium	50000	48340	96.7	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1072	107	ug/L	+/- 10.00%
	Potassium	10000	10080	101	ug/L	+/- 10.00%
	Sodium	50000	50980	102	ug/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SW6010B

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: ME-ICP

SDG: kirtland_006
Project: Kirtland AFB 2011
Calibration: 1088001
Sequence: 1C08804

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1C08804-ICV1	Iron (dissolved)	10000	9827	98.3	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1053	105	ug/L	+/- 10.00%
1C08804-CCV1	Iron (dissolved)	10000	10120	101	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1030	103	ug/L	+/- 10.00%
1C08804-CCV2	Iron (dissolved)	10000	10280	103	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1012	101	ug/L	+/- 10.00%
1C08804-CCV3	Iron (dissolved)	10000	10230	102	ug/L	+/- 10.00%
	Manganese (dissolved)	1000	1006	101	ug/L	+/- 10.00%

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_006

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1082004

Sequence: 1C08211

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1C08211-CRL1	Calcium	2000	2022	101	ug/L	80 - 120
	Iron (dissolved)	60.00	61.46	102	ug/L	80 - 120
	Lead	3.000	2.936	97.9	ug/L	80 - 120
	Magnesium	3000	2827	94.2	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.658	111	ug/L	80 - 120
	Potassium	3000	2882	96.1	ug/L	80 - 120
	Sodium	3000	2955	98.5	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_006

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1087004

Sequence: 1C08706

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1C08706-CRL1	Calcium	2000	2027	101	ug/L	80 - 120
	Iron (dissolved)	60.00	63.00	105	ug/L	80 - 120
	Lead	3.000	3.361	112	ug/L	80 - 120
	Magnesium	3000	2844	94.8	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.706	112	ug/L	80 - 120
	Potassium	3000	2943	98.1	ug/L	80 - 120
	Sodium	3000	3039	101	ug/L	80 - 120

CRDL STANDARD

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_006

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1088001

Sequence: 1C08804

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1C08804-CRL1	Iron (dissolved)	60.00	66.33	111	ug/L	80 - 120
	Manganese (dissolved)	6.000	6.597	110	ug/L	80 - 120

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1C08211
Calibration: 1082004

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C08211-ICB1	Calcium	0.6600	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-0.1583	30.0	100	ug/L	U	SW6010B
	Lead	0.4600	1.50	3.00	ug/L	U	SW6010B
	Magnesium	9.640	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.05490	3.00	15.0	ug/L	U	SW6010B
	Potassium	-2.600	1000	5000	ug/L	U	SW6010B
	Sodium	-12.03	1000	5000	ug/L	U	SW6010B
1C08211-CCB1	Calcium	2.18	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.291	30.0	100	ug/L	U	SW6010B
	Lead	-0.122	1.50	3.00	ug/L	U	SW6010B
	Magnesium	15.4	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0949	3.00	15.0	ug/L	U	SW6010B
	Potassium	1.96	1000	5000	ug/L	U	SW6010B
	Sodium	-13.8	1000	5000	ug/L	U	SW6010B
1C08211-CCB4	Calcium	1.22	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-1.24	30.0	100	ug/L	U	SW6010B
	Lead	0.155	1.50	3.00	ug/L	U	SW6010B
	Magnesium	8.02	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0271	3.00	15.0	ug/L	U	SW6010B
	Potassium	-13.1	1000	5000	ug/L	U	SW6010B
	Sodium	-33.4	1000	5000	ug/L	U	SW6010B
1C22002-BLK1	Calcium	7.31	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-0.646	30.0	100	ug/L	U	SW6010B
	Lead	0.0212	1.50	3.00	ug/L	U	SW6010B
	Magnesium	3.10	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0457	3.00	15.0	ug/L	U	SW6010B
	Potassium	-3.84	1000	5000	ug/L	U	SW6010B
	Sodium	-35.5	1000	5000	ug/L	U	SW6010B
1C08211-CCB5	Calcium	1.72	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-0.545	30.0	100	ug/L	U	SW6010B
	Lead	0.676	1.50	3.00	ug/L	U	SW6010B
	Magnesium	3.39	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0462	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1C08211
Calibration: 1082004

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C08211-CCB5	Potassium	-13.9	1000	5000	ug/L	U	SW6010B
	Sodium	-35.7	1000	5000	ug/L	U	SW6010B
1C08211-CCB6	Calcium	0.200	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	-0.456	30.0	100	ug/L	U	SW6010B
	Lead	0.241	1.50	3.00	ug/L	U	SW6010B
	Magnesium	7.26	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	-0.00447	3.00	15.0	ug/L	U	SW6010B
	Potassium	-17.2	1000	5000	ug/L	U	SW6010B
	Sodium	-36.9	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1C08706
Calibration: 1087004

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C08706-ICB1	Calcium	8.290	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	2.684	30.0	100	ug/L	U	SW6010B
	Lead	0.7856	1.50	3.00	ug/L	U	SW6010B
	Magnesium	12.90	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.2138	3.00	15.0	ug/L	U	SW6010B
	Potassium	7.550	1000	5000	ug/L	U	SW6010B
	Sodium	12.89	1000	5000	ug/L	U	SW6010B
1C08706-CCB1	Calcium	4.73	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.381	30.0	100	ug/L	U	SW6010B
	Lead	-0.289	1.50	3.00	ug/L	U	SW6010B
	Magnesium	3.70	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.111	3.00	15.0	ug/L	U	SW6010B
	Potassium	-6.01	1000	5000	ug/L	U	SW6010B
	Sodium	11.4	1000	5000	ug/L	U	SW6010B
1C08706-CCB2	Calcium	4.73	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	1.84	30.0	100	ug/L	U	SW6010B
	Lead	0.215	1.50	3.00	ug/L	U	SW6010B
	Magnesium	4.05	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.110	3.00	15.0	ug/L	U	SW6010B
	Potassium	-0.700	1000	5000	ug/L	U	SW6010B
	Sodium	3.93	1000	5000	ug/L	U	SW6010B
1C24004-BLK1	Calcium	10.2	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	1.07	30.0	100	ug/L	U	SW6010B
	Lead	-0.248	1.50	3.00	ug/L	U	SW6010B
	Magnesium	7.96	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0782	3.00	15.0	ug/L	U	SW6010B
	Potassium	-1.44	1000	5000	ug/L	U	SW6010B
	Sodium	3.39	1000	5000	ug/L	U	SW6010B
1C08706-CCB3	Calcium	2.72	1000	5000	ug/L	U	SW6010B
	Iron (dissolved)	0.306	30.0	100	ug/L	U	SW6010B
	Lead	0.385	1.50	3.00	ug/L	U	SW6010B
	Magnesium	3.18	1000	5000	ug/L	U	SW6010B
	Manganese (dissolved)	0.0986	3.00	15.0	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1C08706
Calibration: 1087004

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C08706-CCB3	Potassium	6.46	1000	5000	ug/L	U	SW6010B
	Sodium	-1.25	1000	5000	ug/L	U	SW6010B

BLANKS
SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Instrument ID: ME-ICP
Project: Kirtland AFB 2011
Sequence: 1C08804
Calibration: 1088001

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C08804-ICB1	Iron (dissolved)	4.467	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.2680	3.00	15.0	ug/L	U	SW6010B
1C08804-CCB1	Iron (dissolved)	3.85	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.125	3.00	15.0	ug/L	U	SW6010B
1C08804-CCB2	Iron (dissolved)	13.2	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.384	3.00	15.0	ug/L	U	SW6010B
1C28002-BLK1	Iron (dissolved)	4.80	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.192	3.00	15.0	ug/L	U	SW6010B
1C08804-CCB3	Iron (dissolved)	0.537	30.0	100	ug/L	U	SW6010B
	Manganese (dissolved)	0.149	3.00	15.0	ug/L	U	SW6010B

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1082004
Sequence: 1C08211

Lab Sample ID	Analyte	True	Found	%R	Units
1C08211-IFA1	Calcium	500000	492,970.00	98.6	ug/L
	Iron (dissolved)	200000	200,110.00	100	ug/L
	Lead		11.10		ug/L
	Magnesium	500000	510,100.00	102	ug/L
	Manganese (dissolved)		4.28		ug/L
	Potassium		-70.11		ug/L
	Sodium		3.68		ug/L
1C08211-IFB1	Calcium	500000	454,320.00	90.9	ug/L
	Iron (dissolved)	200000	182,870.00	91.4	ug/L
	Lead	50.00	58.14	116	ug/L
	Magnesium	500000	474,520.00	94.9	ug/L
	Manganese (dissolved)	500.0	470.45	94.1	ug/L
	Potassium		-34.31		ug/L
	Sodium		116.24		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: ME-ICP
Calibration: 1087004
Sequence: 1C08706

Lab Sample ID	Analyte	True	Found	%R	Units
1C08706-IFA1	Calcium	500000	489,190.00	97.8	ug/L
	Iron (dissolved)	200000	200,000.00	100	ug/L
	Lead		10.79		ug/L
	Magnesium	500000	510,330.00	102	ug/L
	Manganese (dissolved)		4.73		ug/L
	Potassium		-76.66		ug/L
	Sodium		19.21		ug/L
1C08706-IFB1	Calcium	500000	485,850.00	97.2	ug/L
	Iron (dissolved)	200000	196,320.00	98.2	ug/L
	Lead	50.00	56.24	112	ug/L
	Magnesium	500000	496,460.00	99.3	ug/L
	Manganese (dissolved)	500.0	477.08	95.4	ug/L
	Potassium		-96.86		ug/L
	Sodium		25.61		ug/L

ICP INTERFERENCE CHECK SAMPLE

SW6010B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_006

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Instrument ID: ME-ICP

Calibration: 1088001

Sequence: 1C08804

Lab Sample ID	Analyte	True	Found	%R	Units
1C08804-IFA1	Iron (dissolved)	200000	185,200.00	92.6	ug/L
	Manganese (dissolved)		4.67		ug/L
1C08804-IFB1	Iron (dissolved)	200000	177,900.00	89.0	ug/L
	Manganese (dissolved)	500.0	454.74	90.9	ug/L

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C22002	Laboratory ID:	1C22002-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Calcium	5000	5128	103	80 - 120
Iron (dissolved)	1000	1058	106	80 - 120
Lead	250.0	231.1	92.4	80 - 120
Magnesium	5000	4592	91.8	80 - 120
Manganese (dissolved)	500.0	533.0	107	80 - 120
Potassium	5000	4501	90.0	80 - 120
Sodium	5000	4840	96.8	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Matrix: Water
Batch: 1C24004
Laboratory ID: 1C24004-BS1
Preparation: MET_3005A
Initial/Final: 50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Calcium	5000	4998	100	80 - 120
Iron (dissolved)	1000	1053	105	80 - 120
Lead	250.0	266.6	107	80 - 120
Magnesium	5000	4713	94.3	80 - 120
Manganese (dissolved)	500.0	555.9	111	80 - 120
Potassium	5000	4930	98.6	80 - 120
Sodium	5000	5081	102	80 - 120

LCS / LCS DUPLICATE RECOVERY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C28002	Laboratory ID:	1C28002-BS1
Preparation:	MET_3005A	Initial/Final:	50 mL / 50 mL

ANALYTE	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC.	QC LIMITS REC.
Iron (dissolved)	1000	1050	105	80 - 120
Manganese (dissolved)	500.0	529.6	106	80 - 120

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_006

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** ME-ICP

Analyte	MDL	MRL	Units	Method
Calcium	1000	5000	ug/L	SW6010B
Iron (dissolved)	30.0	100	ug/L	SW6010B
Lead	1.50	3.00	ug/L	SW6010B
Magnesium	1000	5000	ug/L	SW6010B
Manganese (dissolved)	3.00	15.0	ug/L	SW6010B
Potassium	1000	5000	ug/L	SW6010B
Sodium	1000	5000	ug/L	SW6010B

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_006

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	Ag
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Lead	220.3	0.0002980	0.0000000	0.0000080	0.0003250	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000140	0.0287450	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_006

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		As	B	Ba	Be	Cd
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_006

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	K	Mn
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Lead	220.3	0.0000000	0.0000000	0.0022600	0.0000000	0.0000990
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_006

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Mo	Na	Ni	Pb	Sb
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	-0.0026440	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_006

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Se	Sn	Ti	Tl	V
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	317.9	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Iron	261.1	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Lead	220.3	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000360
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	279.0	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Manganese	257.6	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000300
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Potassium	766.4	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	330.2	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

FORM XA-IN

USEPA - CLP

10A-IN
ICP-AES INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Lab Name: Empirical Laboratories, LLC Contract: Shaw E & I (I700)

SDG No.: kirtland_006

ICP-AES Instrument ID: Thermo Jarrell Ashe ICAP Date: 9/11/2009

Analyte	Wave-length (nm)	Interelement Correction Factors for: Zn				
Calcium	317.9	0.0000000				
Calcium	317.9	0.0000000				
Iron	261.1	0.0000000				
Iron	261.1	0.0000000				
Lead	220.3	0.0000000				
Lead	220.3	0.0000000				
Magnesium	279.0	0.0000000				
Magnesium	279.0	0.0000000				
Manganese	257.6	0.0000000				
Manganese	257.6	0.0000000				
Potassium	766.4	0.0000000				
Potassium	766.4	0.0000000				
Sodium	330.2	0.0000000				
Sodium	330.2	0.0000000				

Comments:

FORM XA-IN

ICP-AES AND ICP-MS LINEAR RANGES (QUARTERLY)

Lab Name: Empirical Laboratories, LLC

Client: Shaw E & I (I700) SDG: kirtland_006

Project: Kirtland AFB 2011

ICP Instrument ID: ME-ICP Date: 09/11/2009

Analyte	Integ. Time (Sec.)	Concentration ug/L	M
Calcium	15	500000	P
Calcium	15	500000	P
Iron	15	500000	P
Iron	15	500000	P
Lead	15	10000	P
Lead	15	10000	P
Magnesium	15	500000	P
Magnesium	15	500000	P
Manganese	15	10000	P
Manganese	15	10000	P
Potassium	15	100000	P
Potassium	15	100000	P
Sodium	15	500000	P
Sodium	15	500000	P

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C22002 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0016	1103074-01	03/22/11 07:50	50.00	50.00
GW0016	1103074-02	03/22/11 07:50	50.00	50.00
Blank	1C22002-BLK1	03/22/11 07:50	50.00	50.00
Blank	1C22002-BLK1	03/22/11 07:50	50.00	50.00
LCS	1C22002-BS1	03/22/11 07:50	50.00	50.00
LCS	1C22002-BS1	03/22/11 07:50	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C24004 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
2819RC	1103096-01	03/24/11 08:18	50.00	50.00
GW0018	1103096-03	03/24/11 08:18	50.00	50.00
GW0018	1103096-04	03/24/11 08:18	50.00	50.00
Blank	1C24004-BLK1	03/24/11 08:18	50.00	50.00
Blank	1C24004-BLK1	03/24/11 08:18	50.00	50.00
LCS	1C24004-BS1	03/24/11 08:18	50.00	50.00
LCS	1C24004-BS1	03/24/11 08:18	50.00	50.00

PREPARATION BATCH SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C28002 Batch Matrix: Water Preparation: MET_3005A

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
2819RC	1103096-02	03/28/11 08:08	50.00	50.00
Blank	1C28002-BLK1	03/28/11 08:08	50.00	50.00
LCS	1C28002-BS1	03/28/11 08:08	50.00	50.00

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C08211
Instrument: ME-ICP
Calibration: 1082004

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1C08211-CAL1	032311A-001	03/23/11 08:46
Cal Standard	1C08211-CAL1	032311A-001	03/23/11 08:46
Cal Standard	1C08211-CAL2	032311A-002	03/23/11 08:51
Cal Standard	1C08211-CAL2	032311A-002	03/23/11 08:51
Cal Standard	1C08211-CAL3	032311A-003	03/23/11 08:55
Cal Standard	1C08211-CAL3	032311A-003	03/23/11 08:55
Cal Standard	1C08211-CAL4	032311A-004	03/23/11 09:00
Cal Standard	1C08211-CAL5	032311A-005	03/23/11 09:05
Cal Standard	1C08211-CAL5	032311A-005	03/23/11 09:05
Cal Standard	1C08211-CAL6	032311A-006	03/23/11 09:10
Cal Standard	1C08211-CAL6	032311A-006	03/23/11 09:10
Cal Standard	1C08211-CAL7	032311A-007	03/23/11 09:15
Cal Standard	1C08211-CAL8	032311A-008	03/23/11 09:20
Initial Cal Check	1C08211-ICV1	032311B-001	03/23/11 09:58
Initial Cal Check	1C08211-ICV1	032311B-001	03/23/11 09:58
Initial Cal Blank	1C08211-ICB1	032311B-002	03/23/11 10:05
Initial Cal Blank	1C08211-ICB1	032311B-002	03/23/11 10:05
Instrument RL Check	1C08211-CRL1	032311B-003	03/23/11 10:10
Instrument RL Check	1C08211-CRL1	032311B-003	03/23/11 10:10
Interference Check A	1C08211-IFA1	032311B-005	03/23/11 10:20
Interference Check A	1C08211-IFA1	032311B-005	03/23/11 10:20
Interference Check B	1C08211-IFB1	032311B-006	03/23/11 10:25
Interference Check B	1C08211-IFB1	032311B-006	03/23/11 10:25
Calibration Check	1C08211-CCV1	032311B-008	03/23/11 10:37
Calibration Check	1C08211-CCV1	032311B-008	03/23/11 10:37
Calibration Blank	1C08211-CCB1	032311B-009	03/23/11 10:44
Calibration Blank	1C08211-CCB1	032311B-009	03/23/11 10:44
Calibration Check	1C08211-CCV4	032311C-013	03/23/11 14:12
Calibration Check	1C08211-CCV4	032311C-013	03/23/11 14:12
Calibration Blank	1C08211-CCB4	032311C-014	03/23/11 14:19
Calibration Blank	1C08211-CCB4	032311C-014	03/23/11 14:19
Blank	1C22002-BLK1	032311C-015	03/23/11 14:24

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C08211	Instrument:	ME-ICP
Calibration:	1082004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1C22002-BLK1	032311C-015	03/23/11 14:24
LCS	1C22002-BS1	032311C-016	03/23/11 14:28
LCS	1C22002-BS1	032311C-016	03/23/11 14:28
Calibration Check	1C08211-CCV5	032311C-027	03/23/11 15:23
Calibration Check	1C08211-CCV5	032311C-027	03/23/11 15:23
Calibration Blank	1C08211-CCB5	032311C-028	03/23/11 15:30
Calibration Blank	1C08211-CCB5	032311C-028	03/23/11 15:30
GW0016	1103074-01	032311C-031	03/23/11 15:44
GW0016	1103074-02	032311C-032	03/23/11 15:49
Calibration Check	1C08211-CCV6	032311C-038	03/23/11 16:20
Calibration Check	1C08211-CCV6	032311C-038	03/23/11 16:20
Calibration Blank	1C08211-CCB6	032311C-039	03/23/11 16:28
Calibration Blank	1C08211-CCB6	032311C-039	03/23/11 16:28

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C08706
Instrument: ME-ICP
Calibration: 1087004

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1C08706-CAL1	032511A-001	03/25/11 09:39
Cal Standard	1C08706-CAL1	032511A-001	03/25/11 09:39
Cal Standard	1C08706-CAL2	032511A-002	03/25/11 09:44
Cal Standard	1C08706-CAL2	032511A-002	03/25/11 09:44
Cal Standard	1C08706-CAL3	032511A-003	03/25/11 09:49
Cal Standard	1C08706-CAL3	032511A-003	03/25/11 09:49
Cal Standard	1C08706-CAL4	032511A-004	03/25/11 09:53
Cal Standard	1C08706-CAL5	032511A-005	03/25/11 09:59
Cal Standard	1C08706-CAL5	032511A-005	03/25/11 09:59
Cal Standard	1C08706-CAL6	032511A-006	03/25/11 10:04
Cal Standard	1C08706-CAL6	032511A-006	03/25/11 10:04
Cal Standard	1C08706-CAL7	032511A-007	03/25/11 10:09
Cal Standard	1C08706-CAL8	032511A-008	03/25/11 10:14
Initial Cal Check	1C08706-ICV1	032511B-001	03/25/11 10:43
Initial Cal Check	1C08706-ICV1	032511B-001	03/25/11 10:43
Initial Cal Blank	1C08706-ICB1	032511B-002	03/25/11 10:50
Initial Cal Blank	1C08706-ICB1	032511B-002	03/25/11 10:50
Instrument RL Check	1C08706-CRL1	032511B-003	03/25/11 10:55
Instrument RL Check	1C08706-CRL1	032511B-003	03/25/11 10:55
Interference Check A	1C08706-IFA1	032511C-001	03/25/11 11:24
Interference Check A	1C08706-IFA1	032511C-001	03/25/11 11:24
Interference Check B	1C08706-IFB1	032511C-004	03/25/11 11:49
Interference Check B	1C08706-IFB1	032511C-004	03/25/11 11:49
Calibration Check	1C08706-CCV1	032511C-006	03/25/11 12:00
Calibration Check	1C08706-CCV1	032511C-006	03/25/11 12:00
Calibration Blank	1C08706-CCB1	032511C-007	03/25/11 12:07
Calibration Blank	1C08706-CCB1	032511C-007	03/25/11 12:07
Calibration Check	1C08706-CCV2	032511C-022	03/25/11 13:20
Calibration Check	1C08706-CCV2	032511C-022	03/25/11 13:20
Calibration Blank	1C08706-CCB2	032511C-023	03/25/11 13:28
Calibration Blank	1C08706-CCB2	032511C-023	03/25/11 13:28
Blank	1C24004-BLK1	032511C-024	03/25/11 13:32

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C08706	Instrument:	ME-ICP
Calibration:	1087004		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1C24004-BLK1	032511C-024	03/25/11 13:32
LCS	1C24004-BS1	032511C-025	03/25/11 13:37
LCS	1C24004-BS1	032511C-025	03/25/11 13:37
2819RC	1103096-01	032511C-026	03/25/11 13:43
GW0018	1103096-03	032511C-027	03/25/11 13:48
GW0018	1103096-04	032511C-028	03/25/11 13:52
Calibration Check	1C08706-CCV3	032511C-034	03/25/11 14:21
Calibration Check	1C08706-CCV3	032511C-034	03/25/11 14:21
Calibration Blank	1C08706-CCB3	032511C-035	03/25/11 14:29
Calibration Blank	1C08706-CCB3	032511C-035	03/25/11 14:29

ANALYSIS SEQUENCE SUMMARY

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C08804	Instrument:	ME-ICP
Calibration:	1088001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1C08804-CAL1	032811A-001	03/28/11 09:18
Cal Standard	1C08804-CAL2	032811A-002	03/28/11 09:23
Cal Standard	1C08804-CAL3	032811A-003	03/28/11 09:27
Cal Standard	1C08804-CAL4	032811A-004	03/28/11 09:32
Cal Standard	1C08804-CAL5	032811A-005	03/28/11 09:38
Cal Standard	1C08804-CAL6	032811A-006	03/28/11 09:44
Initial Cal Check	1C08804-ICV1	032811B-001	03/28/11 10:44
Initial Cal Blank	1C08804-ICB1	032811B-002	03/28/11 10:51
Instrument RL Check	1C08804-CRL1	032811B-003	03/28/11 10:56
Interference Check A	1C08804-IFA1	032811C-002	03/28/11 11:51
Interference Check B	1C08804-IFB1	032811C-004	03/28/11 12:03
Calibration Check	1C08804-CCV1	032811C-006	03/28/11 12:14
Calibration Blank	1C08804-CCB1	032811C-007	03/28/11 12:21
Calibration Check	1C08804-CCV2	032811C-012	03/28/11 12:47
Calibration Blank	1C08804-CCB2	032811C-013	03/28/11 12:54
Blank	1C28002-BLK1	032811C-014	03/28/11 12:59
LCS	1C28002-BS1	032811C-015	03/28/11 13:04
2819RC	1103096-02	032811C-028	03/28/11 14:06
Calibration Check	1C08804-CCV3	032811C-029	03/28/11 14:12
Calibration Blank	1C08804-CCB3	032811C-030	03/28/11 14:19

INITIAL CALIBRATION DATA

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1082004
Instrument: ME-ICP
Matrix: Water
Calibration Dates: 3/23/11 8:46 3/23/11 9:20

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	1.845E-05	10000	1.8801E-05			500000	1.87868E-05		
Antimony	0	0	100	0.0007729	1000	8.3609E-04					10000	8.1982E-04
Arsenic	0	0	100	0.0003461	1000	3.7385E-04					10000	3.6245E-04
Barium	0	0	50	0.0119284	1000	0.011734	5000	0.0114842				
Beryllium	0	0	100	0.0024289	1000	0.0024426					10000	0.0023761
Boron	0	0	50	0.0000142	1000	1.308E-05					5000	1.2838E-05
Cadmium	0	0	100	0.0090554	1000	0.0088315					10000	0.008283
Calcium	0	0	1100	3.704545E-05	50000	3.642E-05					10000	
Chromium	0	0	100	0.0000301	1000	2.917E-05					10000	3.0101E-05
Cobalt	0	0	100	0.0057693	1000	0.0058646					10000	0.0059166
Copper	0	0	100	0.0000859	1000	8.151E-05					10000	8.0053E-05
Iron	0	0	5100	1.439412E-05	10000	1.3792E-05			500000	1.32298E-05	10000	
Lead	0	0	100	0.0012558	1000	0.0012735					10000	0.0012761
Magnesium	0	0	5100		50000	1.4356E-06			500000	1.53012E-06	10000	
Manganese	0	0	100	0.0002016	1000	1.9649E-04	10000	1.8625E-04			10000	
Molybdenum	0	0	100	0.0039185	1000	0.0041954					10000	0.0041091
Nickel	0	0	100	0.0030529	1000	0.003155					10000	0.0031743
Potassium	0	0	1000	8.74E-06	10000	9.927E-06						
Selenium	0	0	100	0.0004159	1000	4.3796E-04					10000	4.2205E-04
Silver	0	0	20	0.000049	500	4.704E-05	2000	4.7925E-05				
Sodium	0	0	1000		50000	4.4282E-05						
Strontium	0	0	100	0.001557	1000	0.001557					10000	0.001538
Thallium	0	0	100	8.323001E-04	1000	8.3611E-04					10000	8.3793E-04
Tin	0	0	50	0.0011172	1000	0.0011977					5000	0.0011975
Titanium	0	0	100	0.0001988	1000	1.9654E-04					10000	0.0001996
Vanadium	0	0	100	0.0000381	1000	3.735E-05					10000	3.7895E-05
Zinc	0	0	100	0.0043962	1000	0.0046398					10000	0.0045753
Aluminum	0	0	5000	1.845E-05	10000	1.8801E-05			500000	1.87868E-05		
Antimony	0	0	100	0.0007729	1000	8.3609E-04					10000	8.1982E-04
Arsenic	0	0	100	0.0003461	1000	3.7385E-04					10000	3.6245E-04
Barium	0	0	50	0.0119284	1000	0.011734	5000	0.0114842				

INITIAL CALIBRATION DATA

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1082004
Instrument: ME-ICP
Matrix: Water
Calibration Dates: 3/23/11 8:46 3/23/11 9:20

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium	0	0	100	0.0024289	1000	0.0024426					10000	0.0023761
Boron	0	0	50	0.0000142	1000	1.308E-05					5000	1.2838E-05
Cadmium	0	0	100	0.0090554	1000	0.0088315					10000	0.008283
Calcium	0	0	1100	3.704545E-05	50000	3.642E-05					10000	
Chromium	0	0	100	0.0000301	1000	2.917E-05					10000	3.0101E-05
Cobalt	0	0	100	0.0057693	1000	0.0058646					10000	0.0059166
Copper	0	0	100	0.0000859	1000	8.151E-05					10000	8.0053E-05
Iron	0	0	5100	1.439412E-05	10000	1.3792E-05			500000	1.32298E-05	10000	
Lead	0	0	100	0.0012558	1000	0.0012735					10000	0.0012761
Magnesium	0	0	5100		50000	1.4356E-06			500000	1.53012E-06	10000	
Manganese	0	0	100	0.0002016	1000	1.9649E-04	10000	1.8625E-04			10000	
Molybdenum	0	0	100	0.0039185	1000	0.0041954					10000	0.0041091
Nickel	0	0	100	0.0030529	1000	0.003155					10000	0.0031743
Potassium	0	0	1000	8.74E-06	10000	9.927E-06						
Selenium	0	0	100	0.0004159	1000	4.3796E-04					10000	4.2205E-04
Silver	0	0	20	0.000049	500	4.704E-05	2000	4.7925E-05				
Sodium	0	0	1000		50000	4.4282E-05						
Strontium	0	0	100	0.001557	1000	0.001557					10000	0.001538
Thallium	0	0	100	8.323001E-04	1000	8.3611E-04					10000	8.3793E-04
Tin	0	0	50	0.0011172	1000	0.0011977					5000	0.0011975
Titanium	0	0	100	0.0001988	1000	1.9654E-04					10000	0.0001996
Vanadium	0	0	100	0.0000381	1000	3.735E-05					10000	3.7895E-05
Zinc	0	0	100	0.0043962	1000	0.0046398					10000	0.0045753

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1082004
Instrument: ME-ICP
Matrix: Water
Calibration Dates: 3/23/11 8:46 3/23/11 9:20

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	3.5276E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.4686E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.0059E-05										
Selenium												
Silver												
Sodium	100000	4.2613E-05	500000	4.2646E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1082004
Instrument: ME-ICP
Matrix: Water
Calibration Dates: 3/23/11 8:46 3/23/11 9:20

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	3.5276E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.4686E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.0059E-05										
Selenium												
Silver												
Sodium	100000	4.2613E-05	500000	4.2646E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1082004
Instrument: ME-ICP
Matrix: Water
Calibration Dates: 3/23/11 8:46 3/23/11 9:20

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.400945E-05	66.67672	7.70687	198.007	1		0.998	
Antimony	6.072025E-04	66.8125	3.142972	171.5736	0.9999944		0.998	
Arsenic	0.0002706	66.79939	31.60882	195.9634	0.9999884		0.998	
Barium	8.78665E-03	66.69877	2.168133	165.1528	0.9999811		0.998	
Beryllium	0.0018119	66.68544	11.78226	193.4268	0.9999926		0.998	
Boron	1.00295E-05	66.9286	0.812665	70.49787	0.9999908		0.998	
Cadmium	6.542475E-03	66.85089	0.398305	53.24312	0.999966		0.998	
Calcium	2.718536E-05	66.72113	1.758695	143.3079	0.9999898		0.998	
Chromium	2.234275E-05	66.69557	31.7973	196.2561	0.9999904		0.998	
Cobalt	4.387625E-03	66.68116	3.192657	179.2447	0.9999993		0.998	
Copper	6.186575E-05	66.78758	0.9879325	114.778	0.9999982		0.998	
Iron	1.035398E-05	66.82461	9.075943	190.9313	0.9999993		0.998	
Lead	9.5135E-04	66.6734	21.43998	196.6366	0.9999999		0.998	
Magnesium	1.10858E-06	66.76023	77.49122	198.998	0.9999318		0.998	
Manganese	1.46085E-04	66.80966	6.183462	183.6459	0.9999731		0.998	
Molybdenum	3.05575E-03	66.77408	5.05572	186.1865	0.9999946		0.998	
Nickel	2.34555E-03	66.70533	1.12826	130.246	0.9999998		0.998	
Potassium	7.1815E-06	67.17631	1.104238	96.02899	0.9999999		0.998	
Selenium	3.189775E-04	66.73033	5.59925	178.1145	0.9999862		0.998	
Silver	3.599125E-05	66.70385	4.410703	163.2674	0.9999741		0.998	
Sodium	3.238525E-05	66.71006	2.797442	158.174	0.9999842		0.998	
Strontium	0.001163	66.67111	1.687775	162.6831	0.9999986		0.998	
Thallium	6.26585E-04	66.66772	5.07873	179.404	1		0.998	
Tin	0.0008781	66.80625	6.504598	188.7405	0.9999997		0.998	
Titanium	1.48735E-04	66.67236	9.51352	195.9783	0.9999976		0.998	
Vanadium	2.833625E-05	66.67602	1.087292	119.9049	0.9999977		0.998	
Zinc	3.402825E-03	66.73542	40.42467	197.8749	0.9999974		0.998	
Aluminum	1.400945E-05	66.67672	7.70687	198.007	1		0.998	
Antimony	6.072025E-04	66.8125	3.142972	171.5736	0.9999944		0.998	
Arsenic	0.0002706	66.79939	31.60882	195.9634	0.9999884		0.998	
Barium	8.78665E-03	66.69877	2.168133	165.1528	0.9999811		0.998	
Beryllium	0.0018119	66.68544	11.78226	193.4268	0.9999926		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1082004
Instrument: ME-ICP
Matrix: Water
Calibration Dates: 3/23/11 8:46 3/23/11 9:20

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	1.00295E-05	66.9286	0.812665	70.49787	0.9999908		0.998	
Cadmium	6.542475E-03	66.85089	0.398305	53.24312	0.999966		0.998	
Calcium	2.718536E-05	66.72113	1.758695	143.3079	0.9999898		0.998	
Chromium	2.234275E-05	66.69557	31.7973	196.2561	0.9999904		0.998	
Cobalt	4.387625E-03	66.68116	3.192657	179.2447	0.9999993		0.998	
Copper	6.186575E-05	66.78758	0.9879325	114.778	0.9999982		0.998	
Iron	1.035398E-05	66.82461	9.075943	190.9313	0.9999993		0.998	
Lead	9.5135E-04	66.6734	21.43998	196.6366	0.9999999		0.998	
Magnesium	1.10858E-06	66.76023	77.49122	198.998	0.9999318		0.998	
Manganese	1.46085E-04	66.80966	6.183462	183.6459	0.9999731		0.998	
Molybdenum	3.05575E-03	66.77408	5.05572	186.1865	0.9999946		0.998	
Nickel	2.34555E-03	66.70533	1.12826	130.246	0.9999998		0.998	
Potassium	7.1815E-06	67.17631	1.104238	96.02899	0.9999999		0.998	
Selenium	3.189775E-04	66.73033	5.59925	178.1145	0.9999862		0.998	
Silver	3.599125E-05	66.70385	4.410703	163.2674	0.9999741		0.998	
Sodium	3.238525E-05	66.71006	2.797442	158.174	0.9999842		0.998	
Strontium	0.001163	66.67111	1.687775	162.6831	0.9999986		0.998	
Thallium	6.26585E-04	66.66772	5.07873	179.404	1		0.998	
Tin	0.0008781	66.80625	6.504598	188.7405	0.9999997		0.998	
Titanium	1.48735E-04	66.67236	9.51352	195.9783	0.9999976		0.998	
Vanadium	2.833625E-05	66.67602	1.087292	119.9049	0.9999977		0.998	
Zinc	3.402825E-03	66.73542	40.42467	197.8749	0.9999974		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1087004
Instrument: ME-ICP
Matrix: Water
Calibration Dates: 3/25/11 9:39 3/25/11 10:14

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	1.5988E-05	10000	1.6271E-05			500000	1.61806E-05		
Antimony	0	0	100	0.0006556	1000	7.1912E-04					10000	7.0459E-04
Arsenic	0	0	100	0.0002933	1000	3.2687E-04					10000	3.1674E-04
Barium	0	0	50	0.0098022	1000	0.0096761	5000	0.0093946				
Beryllium	0	0	100	0.0020418	1000	0.0020512					10000	0.0019812
Boron	0	0	50	0.0000122	1000	1.155E-05					5000	1.1394E-05
Cadmium	0	0	100	0.0081198	1000	0.0078718					10000	0.0073104
Calcium	0	0	1100	3.291818E-05	50000	3.245E-05					10000	
Chromium	0	0	100	0.0000247	1000	2.369E-05					10000	2.4061E-05
Cobalt	0	0	100	0.0048835	1000	0.0049592					10000	0.0049495
Copper	0	0	100	0.0000753	1000	7.211E-05					10000	7.0523E-05
Iron	0	0	5100	1.33902E-05	10000	1.2905E-05			500000	1.24154E-05	10000	
Lead	0	0	100	0.0010272	1000	0.0010409					10000	0.0010359
Magnesium	0	0	5100		50000	1.23E-06			500000	1.30056E-06	10000	
Manganese	0	0	100	0.0001645	1000	1.5928E-04	10000	0.0001541			10000	
Molybdenum	0	0	100	0.0031844	1000	0.0034052					10000	0.0033255
Nickel	0	0	100	0.0027008	1000	0.0027644					10000	0.002773
Potassium	0	0	1000	7.54E-06	10000	8.485999E-06						
Selenium	0	0	100	0.0003287	1000	3.4659E-04					10000	3.3463E-04
Silver	0	0	20	0.0000415	500	0.00004	2000	4.1065E-05				
Sodium	0	0	1000		50000	3.977E-05						
Strontium	0	0	100	0.001316	1000	0.001311					10000	0.001293
Thallium	0	0	100	0.0007261	1000	7.2423E-04					10000	7.1961E-04
Tin	0	0	50	0.0009132	1000	9.7968E-04					5000	9.5814E-04
Titanium	0	0	100	0.0001701	1000	0.0001676					10000	1.6873E-04
Vanadium	0	0	100	0.000031	1000	3.012E-05					10000	3.0268E-05
Zinc	0	0	100	0.0034653	1000	0.0036739					10000	0.0035417
Aluminum	0	0	5000	1.5988E-05	10000	1.6271E-05			500000	1.61806E-05		
Antimony	0	0	100	0.0006556	1000	7.1912E-04					10000	7.0459E-04
Arsenic	0	0	100	0.0002933	1000	3.2687E-04					10000	3.1674E-04
Barium	0	0	50	0.0098022	1000	0.0096761	5000	0.0093946				

INITIAL CALIBRATION DATA

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1087004
Instrument: ME-ICP
Matrix: Water
Calibration Dates: 3/25/11 9:39 3/25/11 10:14

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium	0	0	100	0.0020418	1000	0.0020512					10000	0.0019812
Boron	0	0	50	0.0000122	1000	1.155E-05					5000	1.1394E-05
Cadmium	0	0	100	0.0081198	1000	0.0078718					10000	0.0073104
Calcium	0	0	1100	3.291818E-05	50000	3.245E-05					10000	
Chromium	0	0	100	0.0000247	1000	2.369E-05					10000	2.4061E-05
Cobalt	0	0	100	0.0048835	1000	0.0049592					10000	0.0049495
Copper	0	0	100	0.0000753	1000	7.211E-05					10000	7.0523E-05
Iron	0	0	5100	1.33902E-05	10000	1.2905E-05			500000	1.24154E-05	10000	
Lead	0	0	100	0.0010272	1000	0.0010409					10000	0.0010359
Magnesium	0	0	5100		50000	1.23E-06			500000	1.30056E-06	10000	
Manganese	0	0	100	0.0001645	1000	1.5928E-04	10000	0.0001541			10000	
Molybdenum	0	0	100	0.0031844	1000	0.0034052					10000	0.0033255
Nickel	0	0	100	0.0027008	1000	0.0027644					10000	0.002773
Potassium	0	0	1000	7.54E-06	10000	8.485999E-06						
Selenium	0	0	100	0.0003287	1000	3.4659E-04					10000	3.3463E-04
Silver	0	0	20	0.0000415	500	0.00004	2000	4.1065E-05				
Sodium	0	0	1000		50000	3.977E-05						
Strontium	0	0	100	0.001316	1000	0.001311					10000	0.001293
Thallium	0	0	100	0.0007261	1000	7.2423E-04					10000	7.1961E-04
Tin	0	0	50	0.0009132	1000	9.7968E-04					5000	9.5814E-04
Titanium	0	0	100	0.0001701	1000	0.0001676					10000	1.6873E-04
Vanadium	0	0	100	0.000031	1000	3.012E-05					10000	3.0268E-05
Zinc	0	0	100	0.0034653	1000	0.0036739					10000	0.0035417

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1087004
Instrument: ME-ICP
Matrix: Water
Calibration Dates: 3/25/11 9:39 3/25/11 10:14

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	3.174E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.2478E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	8.6654E-06										
Selenium												
Silver												
Sodium	100000	3.8773E-05	500000	3.8778E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												
Aluminum												
Antimony												
Arsenic												
Barium												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1087004
Instrument: ME-ICP
Matrix: Water
Calibration Dates: 3/25/11 9:39 3/25/11 10:14

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	3.174E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.2478E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	8.6654E-06										
Selenium												
Silver												
Sodium	100000	3.8773E-05	500000	3.8778E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1087004
Instrument: ME-ICP
Matrix: Water
Calibration Dates: 3/25/11 9:39 3/25/11 10:14

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.21099E-05	66.67379	6.75923	188.9835	1		0.998	
Antimony	5.198275E-04	66.87131	3.21129	171.1638	0.9999936		0.998	
Arsenic	2.342275E-04	66.93634	5.386013	192.5604	0.9999863		0.998	
Barium	7.218225E-03	66.70844	2.988698	144.616	0.9999635		0.998	
Beryllium	1.51855E-03	66.69796	62.76326	198.9665	0.9999883		0.998	
Boron	8.786E-06	66.78493	2.791805	135.4622	0.9999952		0.998	
Cadmium	0.0058255	66.91955	0.29393	42.80953	0.9999539		0.998	
Calcium	2.427705E-05	66.6965	3.6435	155.903	0.9999952		0.998	
Chromium	1.811275E-05	66.70643	124.846	198.8284	0.9999972		0.998	
Cobalt	3.69805E-03	66.67287	3.576425	181.6278	0.9999999		0.998	
Copper	5.448325E-05	66.76629	0.9505675	68.94864	0.9999966		0.998	
Iron	9.677649E-06	66.79337	12.38247	190.109	0.9999994		0.998	
Lead	0.000776	66.67066	24.51992	196.6896	0.9999997		0.998	
Magnesium	9.4459E-07	66.74208	119.5627	198.7452	0.9999344		0.998	
Manganese	1.1947E-04	66.76132	4.424185	166.7589	0.9999903		0.998	
Molybdenum	2.478775E-03	66.76833	22.44102	195.5302	0.9999932		0.998	
Nickel	2.05955E-03	66.685	4.748268	185.5209	1		0.998	
Potassium	6.17285E-06	67.1447	3.02014	161.7368	0.999999		0.998	
Selenium	2.5248E-04	66.73177	3.53337	171.2919	0.9999875		0.998	
Silver	3.064125E-05	66.69837	8.309595	183.6478	0.9999504		0.998	
Sodium	2.933025E-05	66.68583	5.450327	159.0831	0.9999931		0.998	
Strontium	0.00098	66.67429	4.9135	180.9115	0.9999982		0.998	
Thallium	5.42485E-04	66.66857	14.22051	193.2069	0.9999995		0.998	
Tin	7.12755E-04	66.77981	12.41609	189.7164	0.9999751		0.998	
Titanium	1.266075E-04	66.67156	21.83572	196.407	0.9999995		0.998	
Vanadium	2.2847E-05	66.68793	2.069125	130.8221	0.9999996		0.998	
Zinc	2.670225E-03	66.74473	9.746862	192.6435	0.9999851		0.998	
Aluminum	1.21099E-05	66.67379	6.75923	188.9835	1		0.998	
Antimony	5.198275E-04	66.87131	3.21129	171.1638	0.9999936		0.998	
Arsenic	2.342275E-04	66.93634	5.386013	192.5604	0.9999863		0.998	
Barium	7.218225E-03	66.70844	2.988698	144.616	0.9999635		0.998	
Beryllium	1.51855E-03	66.69796	62.76326	198.9665	0.9999883		0.998	

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1087004
Instrument: ME-ICP
Matrix: Water
Calibration Dates: 3/25/11 9:39 3/25/11 10:14

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Boron	8.786E-06	66.78493	2.791805	135.4622	0.9999952		0.998	
Cadmium	0.0058255	66.91955	0.29393	42.80953	0.9999539		0.998	
Calcium	2.427705E-05	66.6965	3.6435	155.903	0.9999952		0.998	
Chromium	1.811275E-05	66.70643	124.846	198.8284	0.9999972		0.998	
Cobalt	3.69805E-03	66.67287	3.576425	181.6278	0.9999999		0.998	
Copper	5.448325E-05	66.76629	0.9505675	68.94864	0.9999966		0.998	
Iron	9.677649E-06	66.79337	12.38247	190.109	0.9999994		0.998	
Lead	0.000776	66.67066	24.51992	196.6896	0.9999997		0.998	
Magnesium	9.4459E-07	66.74208	119.5627	198.7452	0.9999344		0.998	
Manganese	1.1947E-04	66.76132	4.424185	166.7589	0.9999903		0.998	
Molybdenum	2.478775E-03	66.76833	22.44102	195.5302	0.9999932		0.998	
Nickel	2.05955E-03	66.685	4.748268	185.5209	1		0.998	
Potassium	6.17285E-06	67.1447	3.02014	161.7368	0.999999		0.998	
Selenium	2.5248E-04	66.73177	3.53337	171.2919	0.9999875		0.998	
Silver	3.064125E-05	66.69837	8.309595	183.6478	0.9999504		0.998	
Sodium	2.933025E-05	66.68583	5.450327	159.0831	0.9999931		0.998	
Strontium	0.00098	66.67429	4.9135	180.9115	0.9999982		0.998	
Thallium	5.42485E-04	66.66857	14.22051	193.2069	0.9999995		0.998	
Tin	7.12755E-04	66.77981	12.41609	189.7164	0.9999751		0.998	
Titanium	1.266075E-04	66.67156	21.83572	196.407	0.9999995		0.998	
Vanadium	2.2847E-05	66.68793	2.069125	130.8221	0.9999996		0.998	
Zinc	2.670225E-03	66.74473	9.746862	192.6435	0.9999851		0.998	

INITIAL CALIBRATION DATA

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1088001
Instrument: ME-ICP
Matrix: Water
Calibration Dates: 3/28/11 9:18 3/28/11 9:54

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum	0	0	5000	2.0146E-05	10000	2.0373E-05			500000	2.0418E-05		
Antimony	0	0	100	0.0008513	1000	9.2835E-04					10000	9.0457E-04
Arsenic	0	0	100	0.0003599	1000	4.0907E-04					10000	3.9423E-04
Barium	0	0	50	0.0123096	1000	0.011994	5000	0.0115038				
Beryllium	0	0	100	0.0023718	1000	0.0024337					10000	0.002334
Boron	0	0	50	0.0000144	1000	1.401E-05					5000	1.3604E-05
Cadmium	0	0	100	0.0099929	1000	0.010115					10000	0.0091803
Calcium	0	0	1100	3.615455E-05	50000	3.6862E-05					10000	
Chromium	0	0	100	0.0000281	1000	2.814E-05					10000	2.7926E-05
Cobalt	0	0	100	0.0060807	1000	0.0062256					10000	0.0061327
Copper	0	0	100	0.0000952	1000	9.235999E-05					10000	8.983E-05
Iron	0	0	5100	1.539019E-05	10000	1.4896E-05			500000	1.45796E-05	10000	
Lead	0	0	100	0.0012966	1000	0.0012974					10000	0.0012751
Magnesium	0	0	5100		50000	1.4396E-06			500000	1.50052E-06	10000	
Manganese	0	0	100	0.0001923	1000	1.8766E-04	10000	1.7795E-04			10000	
Molybdenum	0	0	100	0.0040509	1000	0.0042627					10000	0.0041086
Nickel	0	0	100	0.0033291	1000	0.0034879					10000	0.0034538
Potassium	0	0	1000	0.0000102	10000	1.0859E-05						
Selenium	0	0	100	0.0004289	1000	4.3697E-04					10000	4.1781E-04
Silver	0	0	20	0.0000505	500	4.802E-05	2000	4.913E-05				
Sodium	0	0	1000		50000	5.155E-05						
Strontium	0	0	100	0.001656	1000	0.001667					10000	0.001637
Thallium	0	0	100	9.254001E-04	1000	9.3038E-04					10000	9.1191E-04
Tin	0	0	50	0.001132	1000	0.0011885					5000	0.001156
Titanium	0	0	100	0.0002051	1000	2.0451E-04					10000	2.0537E-04
Vanadium	0	0	100	0.0000368	1000	3.664E-05					10000	3.6087E-05
Zinc	0	0	100	0.0040264	1000	0.0042152					10000	0.0040063

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Calibration: 1088001
Instrument: ME-ICP
Matrix: Water
Calibration Dates: 3/28/11 9:18 3/28/11 9:54

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Aluminum												
Antimony												
Arsenic												
Barium												
Beryllium												
Boron												
Cadmium												
Calcium	100000		500000	3.5238E-05								
Chromium												
Cobalt												
Copper												
Iron												
Lead												
Magnesium			100000	1.4555E-06								
Manganese												
Molybdenum												
Nickel												
Potassium	100000	1.128E-05										
Selenium												
Silver												
Sodium	100000	5.0874E-05	500000	5.0706E-05								
Strontium												
Thallium												
Tin												
Titanium												
Vanadium												
Zinc												

INITIAL CALIBRATION DATA (Continued)

SW6010B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Calibration:	1088001	Instrument:	ME-ICP
Matrix:	Water	Calibration Dates:	3/28/11 9:18 3/28/11 9:54

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Aluminum	1.523425E-05	66.67125	5.825118	194.7998	1		0.998	
Antimony	6.71055E-04	66.83928	3.886813	172.4013	0.9999908		0.998	
Arsenic	0.0002908	67.0417	4.190533	149.0265	0.9999809		0.998	
Barium	8.95185E-03	66.76946	3.564323	175.3885	0.9999262		0.998	
Beryllium	1.784875E-03	66.70641	33.86815	196.2207	0.9999822		0.998	
Boron	1.05035E-05	66.73843	1.389735	143.0253	0.9999689		0.998	
Cadmium	7.32205E-03	66.90699	0.65376	68.18345	0.9999105		0.998	
Calcium	2.706364E-05	66.7119	2.2821	136.1719	0.999979		0.998	
Chromium	2.10415E-05	66.66813	86.48907	198.7544	0.9999994		0.998	
Cobalt	4.60975E-03	66.67934	1.895848	147.4721	0.9999977		0.998	
Copper	6.93475E-05	66.74166	1.498643	153.7467	0.9999941		0.998	
Iron	1.121645E-05	66.73296	26.94379	196.3518	0.9999998		0.998	
Lead	9.67275E-04	66.67522	43.61153	196.9046	0.9999973		0.998	
Magnesium	1.098905E-06	66.70799	58.17144	197.9331	0.9999639		0.998	
Manganese	1.394775E-04	66.80434	24.50743	195.8467	0.9999734		0.998	
Molybdenum	3.10555E-03	66.72879	4.56579	180.0648	0.9999854		0.998	
Nickel	0.0025677	66.71964	3.91646	176.341	0.9999985		0.998	
Potassium	8.08475E-06	66.89295	4.034808	169.5798	0.9999912		0.998	
Selenium	3.2092E-04	66.71158	3.43234	160.1535	0.9999815		0.998	
Silver	3.69125E-05	66.72327	5.081932	178.7974	0.9999616		0.998	
Sodium	3.82825E-05	66.67348	2.762877	105.3149	0.9999977		0.998	
Strontium	0.00124	66.67416	15.32573	189.2481	0.9999968		0.998	
Thallium	6.919225E-04	66.6762	51.09175	197.9823	0.999996		0.998	
Tin	8.69125E-04	66.71987	3.948655	160.1118	0.9999634		0.998	
Titanium	1.53745E-04	66.66707	2.732007	150.453	0.9999998		0.998	
Vanadium	2.738175E-05	66.676	3.650265	179.8507	0.9999981		0.998	
Zinc	3.061975E-03	66.73746	17.88109	194.0291	0.9999728		0.998	

Data for Wet Chemistry Forms

ANALYSIS DATA SHEET

GW0016

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 03/08/11 11:05
% Solids: 0.00

SDG: kirtland_006
Project: Kirtland AFB 2011
Laboratory ID: 1103074-01
Received: 03/09/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1C24002	03/24/11 14:13
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U	SM4500S2CF	1C11021	03/11/11 21:24
10-09-3	Alkalinity, Bicarbonate (as CACO3)	92.3	1.00	1.00	1.00	1		SM2320B	1C14011	03/14/11 10:00
16887-00-6	Chloride	20.8	0.170	0.330	1.00	1	M	E300.0	1C09012	03/09/11 14:27
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1C14011	03/14/11 10:00
14797-55-8	Nitrate as N	0.378	0.0330	0.100	0.200	1		E300.0	1C09012	03/09/11 14:27
14808-79-8	Sulfate as SO4	28.6	0.330	1.00	2.00	1		E300.0	1C09012	03/09/11 14:27

ANALYSIS DATA SHEET

2819RC

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 03/09/11 13:27
% Solids: 0.00

SDG: kirtland_006
Project: Kirtland AFB 2011
Laboratory ID: 1103096-01
Received: 03/10/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1C24002	03/24/11 14:23
18496-25-8	Sulfide		0.741	1.85	3.70	0.74	U	SM4500S2CF	1C11021	03/11/11 21:27
10-09-3	Alkalinity, Bicarbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1C14011	03/14/11 10:00
16887-00-6	Chloride	17.6	0.170	0.330	1.00	1	M	E300.0	1C10011	03/10/11 15:46
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1C14011	03/14/11 10:00
14797-55-8	Nitrate as N	1.25	0.0330	0.100	0.200	1		E300.0	1C10011	03/10/11 15:46
14808-79-8	Sulfate as SO4	27.6	0.330	1.00	2.00	1		E300.0	1C10011	03/10/11 15:46

ANALYSIS DATA SHEET

GW0018

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Matrix: Water
Sampled: 03/09/11 11:00
% Solids: 0.00

SDG: kirtland_006
Project: Kirtland AFB 2011
Laboratory ID: 1103096-03
Received: 03/10/11 08:45

CAS NO.	Analyte	Conc. (mg/L)	DL	LOD	LOQ	D.F.	Q	Method	Batch	Analyzed
7664-41-7	Ammonia as N		0.110	0.150	0.300	1	U	SM4500NH3BG	1C24002	03/24/11 14:24
18496-25-8	Sulfide		0.714	1.79	3.57	0.71	U	SM4500S2CF	1C11021	03/11/11 21:28
10-09-3	Alkalinity, Bicarbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1C14011	03/14/11 10:00
16887-00-6	Chloride	12.0	0.170	0.330	1.00	1	M	E300.0	1C10011	03/10/11 16:03
13-01-4	Alkalinity, Carbonate (as CACO3)		1.00	1.00	1.00	1	U	SM2320B	1C14011	03/14/11 10:00
14797-55-8	Nitrate as N	0.335	0.0330	0.100	0.200	1		E300.0	1C10011	03/10/11 16:03
14808-79-8	Sulfate as SO4	35.9	0.330	1.00	2.00	1		E300.0	1C10011	03/10/11 16:03

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_006
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 0J29503

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
0J29503-ICV1	Chloride	4.800	4.639	96.6	mg/L	+/- 10.00%
	Nitrate as N	3.616	3.531	97.6	mg/L	+/- 10.00%
	Sulfate as SO4	24.00	23.53	98.0	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_006
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1C06918

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1C06918-CCV1	Chloride	25.00	26.19	105	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.500	100	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	25.99	104	mg/L	+/- 10.00%
1C06918-CCV2	Chloride	25.00	26.28	105	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.511	100	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.13	105	mg/L	+/- 10.00%
1C06918-CCV3	Chloride	25.00	26.32	105	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.506	100	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.25	105	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

E300.0

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-IC

SDG: kirtland_006
Project: Kirtland AFB 2011
Calibration: 0295001
Sequence: 1C07608

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1C07608-CCV1	Chloride	25.00	26.06	104	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.487	99.5	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.19	105	mg/L	+/- 10.00%
1C07608-CCV2	Chloride	25.00	26.19	105	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.496	99.8	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.95	108	mg/L	+/- 10.00%
1C07608-CCV3	Chloride	25.00	26.30	105	mg/L	+/- 10.00%
	Nitrate as N	2.500	2.539	102	mg/L	+/- 10.00%
	Sulfate as SO4	25.00	26.19	105	mg/L	+/- 10.00%

INITIAL AND CONTINUING CALIBRATION CHECK

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
Client: Shaw E & I (I700)
Instrument ID: WC-Lachat

SDG: kirtland_006
Project: Kirtland AFB 2011
Calibration: 1087001
Sequence: 1C08314

Lab Sample ID	Analyte	True	Found	%R	Units	Control Limit
1C08314-ICV1	Ammonia as N	2.000	2.116	106	mg/L	+/- 10.00%
1C08314-CCV1	Ammonia as N	2.000	2.081	104	mg/L	+/- 10.00%
1C08314-CCV2	Ammonia as N	2.000	2.103	105	mg/L	+/- 10.00%

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 0J29503

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
0J29503-CRL2	Chloride	1.000	0.8730	87.3	mg/L	75 - 125
	Nitrate as N	0.1000	0.09500	95.0	mg/L	75 - 125
	Sulfate as SO4	1.000	1.023	102	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 1C06918

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1C06918-CRL1	Nitrate as N	0.05000	0.04900	98.0	mg/L	75 - 125
	Sulfate as SO4	0.5000	0.5290	106	mg/L	75 - 125
1C06918-CRL2	Chloride	1.000	0.8900	89.0	mg/L	75 - 125

CRDL STANDARD

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Instrument ID: WC-IC
Calibration: 0295001
Sequence: 1C07608

Lab Sample ID	Analyte	True	Found	%R	Units	QC Limts
1C07608-CRL1	Nitrate as N	0.05000	0.05100	102	mg/L	75 - 125
	Sulfate as SO4	0.5000	0.5180	104	mg/L	75 - 125
1C07608-CRL2	Chloride	1.000	0.9070	90.7	mg/L	75 - 125

METHOD BLANKS

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_006

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1C09012

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C09012-BLK1	Chloride	-0.0890	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS

E300.0

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_006

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1C10011

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C10011-BLK1	Chloride	-0.114	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

METHOD BLANKS

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_006

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1C11021

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C11021-BLK1	Sulfide	0.00	0.800	4.00	mg/L	U	SM4500S2CF

METHOD BLANKS

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_006

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Batch: 1C14011

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C14011-BLK1	Alkalinity, Total (as CACO3)	-0.410	1.00	1.00	mg/L	U	SM2320B

METHOD BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1C24002

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C24002-BLK1	Ammonia as N	-0.00932	0.110	0.300	mg/L	U	SM4500NH3BG

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 0J29503
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
0J29503-ICB1	Chloride	0.01700	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.000	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.08000	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C06918
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C06918-CCB1	Chloride	-0.0890	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1C06918-CCB2	Chloride	-0.0750	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1C06918-CCB3	Chloride	-0.120	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

BLANKS
E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C07608
Calibration: 0295001
Instrument ID: WC-IC

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C07608-CCB1	Chloride	-0.109	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1C07608-CCB2	Chloride	-0.0780	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0
1C07608-CCB3	Chloride	-0.103	0.170	0.500	mg/L	U	E300.0
	Nitrate as N	0.00	0.0330	0.200	mg/L	U	E300.0
	Sulfate as SO4	0.00	0.330	2.00	mg/L	U	E300.0

BLANKS
SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C08314
Calibration: 1087001
Instrument ID: WC-Lachat

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C	Method
1C08314-ICB1	Ammonia as N	0.004528	0.110	0.300	mg/L	U	SM4500NH3BG
1C08314-CCB1	Ammonia as N	-0.000890	0.110	0.300	mg/L	U	SM4500NH3BG
1C08314-CCB2	Ammonia as N	0.00984	0.110	0.300	mg/L	U	SM4500NH3BG

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C09012	Laboratory ID:	1C09012-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.120	107	90 - 110
Nitrate as N	3.616	3.700	102	90 - 110
Sulfate as SO4	24.00	26.26	109	90 - 110

LCS / LCS DUPLICATE RECOVERY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C10011	Laboratory ID:	1C10011-BS1
Preparation:	WC_PREP_ANIONS_W	Initial/Final:	5 mL / 5 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Chloride	4.800	5.148	107	90 - 110
Nitrate as N	3.616	3.649	101	90 - 110
Sulfate as SO4	24.00	25.47	106	90 - 110

LCS / LCS DUPLICATE RECOVERY

SM4500S2CF

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C11021	Laboratory ID:	1C11021-BS1
Preparation:	pNone	Initial/Final:	3 mL / 250 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Sulfide	1580	1400	88.6	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM2320B

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C14011	Laboratory ID:	1C14011-BS1
Preparation:	pNone	Initial/Final:	5 mL / 25 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Alkalinity, Total (as CACO3)	1000	1156	116	80 - 120

LCS / LCS DUPLICATE RECOVERY

SM4500NH3BG

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Matrix:	Water		
Batch:	1C24002	Laboratory ID:	1C24002-BS1
Preparation:	pNone	Initial/Final:	100 mL / 100 mL

ANALYTE	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC.	QC LIMITS REC.
Ammonia as N	5.000	4.829	96.6	80 - 120

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_006

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:**

Analyte	MDL	MRL	Units	Method
Alkalinity, Bicarbonate (as CACO3)	1.00	1.00	mg/L	SM2320B
Alkalinity, Carbonate (as CACO3)	1.00	1.00	mg/L	SM2320B
Sulfide	0.800	4.00	mg/L	SM4500S2CF

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_006

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** WC-IC

Analyte	MDL	MRL	Units	Method
Chloride	0.170	0.500	mg/L	E300.0
Nitrate as N	0.0330	0.200	mg/L	E300.0
Sulfate as SO4	0.330	2.00	mg/L	E300.0

METHOD DETECTION AND REPORTING LIMITS

Laboratory: Empirical Laboratories, LLC **SDG:** kirtland_006

Client: Shaw E & I (I700) **Project:** Kirtland AFB 2011

Matrix: Water **Instrument:** WC-Lachat

Analyte	MDL	MRL	Units	Method
Ammonia as N	0.110	0.300	mg/L	SM4500NH3BG

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Batch: 1C09012 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0016	1103074-01	03/09/11 11:26	5.00	5.00
GW0016	1103074-01	03/09/11 11:26	5.00	5.00
Blank	1C09012-BLK1	03/09/11 11:26	5.00	5.00
LCS	1C09012-BS1	03/09/11 11:26	5.00	5.00

PREPARATION BATCH SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C10011 Batch Matrix: Water Preparation: WC_PREP_ANIONS_W

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
2819RC	1103096-01	03/10/11 10:30	5.00	5.00
2819RC	1103096-01	03/10/11 10:30	5.00	5.00
GW0018	1103096-03	03/10/11 10:30	5.00	5.00
GW0018	1103096-03	03/10/11 10:30	5.00	5.00
Blank	1C10011-BLK1	03/10/11 10:30	5.00	5.00
LCS	1C10011-BS1	03/10/11 10:30	5.00	5.00

PREPARATION BATCH SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C11021 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0016	1103074-01	03/11/11 17:18	270.00	200.00
2819RC	1103096-01	03/11/11 17:18	270.00	200.00
GW0018	1103096-03	03/11/11 17:18	280.00	200.00
Blank	1C11021-BLK1	03/11/11 17:18	250.00	200.00
LCS	1C11021-BS1	03/11/11 17:18	3.00	250.00

PREPARATION BATCH SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C14011 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0016	1103074-01	03/14/11 09:19	25.00	25.00
2819RC	1103096-01	03/14/11 09:19	25.00	25.00
GW0018	1103096-03	03/14/11 09:19	25.00	25.00
Blank	1C14011-BLK1	03/14/11 09:19	25.00	25.00
LCS	1C14011-BS1	03/14/11 09:19	5.00	25.00

PREPARATION BATCH SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC SDG: kirtland_006

Client: Shaw E & I (I700) Project: Kirtland AFB 2011

Batch: 1C24002 Batch Matrix: Water Preparation: pNone

SAMPLE NAME	LAB SAMPLE ID	DATE PREPARED	INITIAL VOL./WEIGHT	FINAL VOL.
GW0016	1103074-01	03/24/11 07:58	100.00	100.00
2819RC	1103096-01	03/24/11 07:58	100.00	100.00
GW0018	1103096-03	03/24/11 07:58	100.00	100.00
Blank	1C24002-BLK1	03/24/11 07:58	100.00	100.00
LCS	1C24002-BS1	03/24/11 07:58	100.00	100.00

ANALYSIS SEQUENCE SUMMARY

SM2320B

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_006

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	1C14011-BS1	031411-003	03/14/11 10:00
Blank	1C14011-BLK1	031411-004	03/14/11 10:00

ANALYSIS SEQUENCE SUMMARY

SM4500S2CF

Laboratory: Empirical Laboratories, LLC

SDG: kirtland_006

Client: Shaw E & I (I700)

Project: Kirtland AFB 2011

Sequence:

Instrument:

Calibration:

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Blank	1C11021-BLK1	031111-003	03/11/11 21:20
LCS	1C11021-BS1	031111-002	03/11/11 21:21

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 0J29503
Instrument: WC-IC
Calibration: 0295001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	0J29503-CAL1	102110curve-057	10/21/10 10:28
Cal Standard	0J29503-CAL2	102110curve-058	10/21/10 10:45
Cal Standard	0J29503-CAL3	102110curve-059	10/21/10 11:02
Cal Standard	0J29503-CAL4	102110curve-060	10/21/10 11:20
Cal Standard	0J29503-CAL5	102110curve-061	10/21/10 11:37
Cal Standard	0J29503-CAL6	102110curve-062	10/21/10 11:55
Cal Standard	0J29503-CAL7	102110curve-063	10/21/10 12:12
Cal Standard	0J29503-CAL8	102110curve-064	10/21/10 12:29
Initial Cal Check	0J29503-ICV1	102110curve-065	10/21/10 12:47
Initial Cal Blank	0J29503-ICB1	102110curve-066	10/21/10 13:04
Instrument RL Check	0J29503-CRL2	102110curve-068	10/21/10 13:39

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C06918	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1C06918-CCV1	030911-001	03/09/11 10:58
Calibration Blank	1C06918-CCB1	030911-002	03/09/11 11:15
Instrument RL Check	1C06918-CRL1	030911-005	03/09/11 12:08
Instrument RL Check	1C06918-CRL2	030911-006	03/09/11 12:25
LCS	1C09012-BS1	030911-009	03/09/11 13:17
Blank	1C09012-BLK1	030911-010	03/09/11 13:35
Calibration Check	1C06918-CCV2	030911-011	03/09/11 13:52
Calibration Blank	1C06918-CCB2	030911-012	03/09/11 14:09
GW0016	1103074-01	030911-013	03/09/11 14:27
Calibration Check	1C06918-CCV3	030911-021	03/09/11 16:46
Calibration Blank	1C06918-CCB3	030911-022	03/09/11 17:04

ANALYSIS SEQUENCE SUMMARY

E300.0

Laboratory:	Empirical Laboratories, LLC	SDG:	kirtland_006
Client:	Shaw E & I (I700)	Project:	Kirtland AFB 2011
Sequence:	1C07608	Instrument:	WC-IC
Calibration:	0295001		

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1C07608-CCV1	031011-001	03/10/11 10:32
Calibration Blank	1C07608-CCB1	031011-002	03/10/11 10:49
Instrument RL Check	1C07608-CRL1	031011-006	03/10/11 11:59
LCS	1C10011-BS1	031011-007	03/10/11 12:17
Blank	1C10011-BLK1	031011-008	03/10/11 12:34
Calibration Check	1C07608-CCV2	031011-013	03/10/11 14:01
Calibration Blank	1C07608-CCB2	031011-014	03/10/11 14:19
2819RC	1103096-01	031011-019	03/10/11 15:46
GW0018	1103096-03	031011-020	03/10/11 16:03
Instrument RL Check	1C07608-CRL2	031011-023	03/10/11 17:07
Calibration Check	1C07608-CCV3	031011-024	03/10/11 17:24
Calibration Blank	1C07608-CCB3	031011-025	03/10/11 17:42

ANALYSIS SEQUENCE SUMMARY

SM4500NH3BG

Laboratory: Empirical Laboratories, LLC
SDG: kirtland_006
Client: Shaw E & I (I700)
Project: Kirtland AFB 2011
Sequence: 1C08314
Instrument: WC-Lachat
Calibration: 1087001

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1C08314-CAL1	M_3-24-2011_01-57-23PM-00	03/24/11 13:58
Cal Standard	1C08314-CAL2	M_3-24-2011_01-57-23PM-00	03/24/11 13:59
Cal Standard	1C08314-CAL3	M_3-24-2011_01-57-23PM-00	03/24/11 14:00
Cal Standard	1C08314-CAL4	M_3-24-2011_01-57-23PM-00	03/24/11 14:01
Cal Standard	1C08314-CAL5	M_3-24-2011_01-57-23PM-00	03/24/11 14:02
Cal Standard	1C08314-CAL6	M_3-24-2011_01-57-23PM-00	03/24/11 14:03
Cal Standard	1C08314-CAL7	M_3-24-2011_01-57-23PM-00	03/24/11 14:04
Cal Standard	1C08314-CAL8	M_3-24-2011_01-57-23PM-00	03/24/11 14:05
Initial Cal Check	1C08314-ICV1	M_3-24-2011_01-57-23PM-00	03/24/11 14:06
Initial Cal Blank	1C08314-ICB1	M_3-24-2011_01-57-23PM-01	03/24/11 14:07
Blank	1C24002-BLK1	M_3-24-2011_01-57-23PM-01	03/24/11 14:08
LCS	1C24002-BS1	M_3-24-2011_01-57-23PM-01	03/24/11 14:09
GW0016	1103074-01	M_3-24-2011_01-57-23PM-01	03/24/11 14:13
Calibration Check	1C08314-CCV1	M_3-24-2011_01-57-23PM-02	03/24/11 14:20
Calibration Blank	1C08314-CCB1	M_3-24-2011_01-57-23PM-02	03/24/11 14:21
2819RC	1103096-01	M_3-24-2011_01-57-23PM-02	03/24/11 14:23
GW0018	1103096-03	M_3-24-2011_01-57-23PM-02	03/24/11 14:24
Calibration Check	1C08314-CCV2	M_3-24-2011_01-57-23PM-03	03/24/11 14:29
Calibration Blank	1C08314-CCB2	M_3-24-2011_01-57-23PM-03	03/24/11 14:30