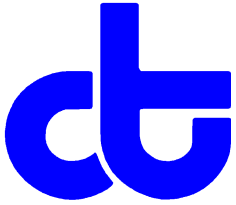




Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878



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2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 256049
ANALYTICAL REPORT

Suisun Bay Reserve Fleet
2595 Lake Herman Rd.
Benicia, CA 94510

Project : STANDARD
Location : Storm Water Sampling
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
PARKING LOT	256049-001
GREEN MOUNTAIN STATE	256049-002
CAPE BRETON	256049-003
CAPE BLANCO	256049-004
COMET	256049-005
METEOR	256049-006

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Date: 05/14/2014

Will S Rice
Project Manager
will.rice@ctberk.com

CA ELAP# 2896, NELAP# 4044-001

CASE NARRATIVE

Laboratory number: 256049
Client: Suisun Bay Reserve Fleet
Location: Storm Water Sampling
Request Date: 04/25/14
Samples Received: 04/25/14

This data package contains sample and QC results for six water samples, requested for the above referenced project on 04/25/14. The samples were received cold and intact.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7470A):

No analytical problems were encountered.

Conductivity (SM2510B):

No analytical problems were encountered.

Total Oil & Grease (HEM) (EPA 1664A):

Matrix spikes were not performed for this analysis due to insufficient sample volume. No analytical problems were encountered.

Total Suspended Solids (TSS) (SM2540D):

High RPD was observed for total suspended solids in the MS/MSD for batch 210631; the parent sample was not a project sample, and the RPD was acceptable in the BS/BSD. No other analytical problems were encountered.

pH (EPA 9040C):

No analytical problems were encountered.

Low-level Mercury (EPA 1631):

Alpha Analytical Dublin in Dublin, CA performed the analysis (not NELAP certified). Please see the Alpha Analytical Dublin case narrative.



2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

CHAIN OF CUSTODY

Page ___ of ___
Chain of Custody # _____

C&T LOGIN # 256v449

Project No: 66
Project Name: STORM WATER SAMPLING Report To: ERICK LAWLER
Project P. O. No: DTMA94PA2012011 Company: SUNNYSIDE RESERVE TRACT
EDD Format: Report Level II III IV Telephone: 707-747-7829
Turnaround Time: RUSH Standard Email: ERICK.LAWLER@DOT.CA.GOV

Sampler: SUPPP TEAM

ANALYTICAL REQUEST	

Lab No.	Sample ID.	SAMPLING		MATRIX	# of Containers	CHEMICAL PRESERVATIVE					
		Date Collected	Time Collected			HCl	H2SO4	HNO3	NaOH	None	
1	Parking Lot	4-25-14	0905	Water	6	1		1			
2	Green Mtn State	4-25-14	0858	Solid	6	1		1			
3	Cape Breton	4-25-14	0955		6	1		1			
4	Cape Blanco	4-25-14	0910		6	1		1			
5	Cornet	4-25-14	0900		6	1		1			
6	meteor	4-25-14	0910		6	1		1			

Notes:

SAMPLE RECEIPT Intact Cold On Ice Ambient

RELINQUISHED BY: Willie Bolt DATE: 4-25-14 TIME: 10:50

RECEIVED BY: Eric Lawler DATE: 4/25/14 TIME: 10:50

Login 254999

Refresh

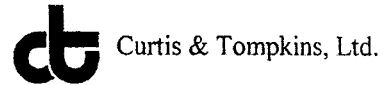
Basics	Comments	Lists	Pricing	Analysis	Reporting	Email	Utilities	Activity
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C&T Login Summary for 254999

Project: CLIN 0002 Site: Storm water Lab Login #: 254999 Report Level: II Report Due: 04/02/14 PO#: DTMA94P2012011 C&T Proj Mgr: Will S Rice	Report To: Suisun Bay Reserve Fleet 2595 Lake Herman Rd. Benicia, CA 94510 ATIN: Erick Lawlor	Bill To: DOT/Enterprise Services Center PO Box 25710 Oklahoma City, OK 73125 ATTN: MARAD A/P Branch, AMZ-160
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Client ID	Lab ID	Sampled	Received	Matrix	Analyses	COC #	Comments
PARKING LOT	001	03/26	03/26	Water	1631		Subcontracted to Alpha Analytical Dublin.
				Water	1664T		
				Water	EC		
				Water	PH		
				Water	T22 MET		
				Water	TEHM		
				Water	TSS		
BRETON	002	03/26	03/26	Water	1631		Subcontracted to Alpha Analytical Dublin.
				Water	1664T		
				Water	EC		

COOLER RECEIPT CHECKLIST



Login # 256049 Date Received 4/25/14 Number of coolers 2
 Client Sullivan Bay Project CF

Date Opened 4/25 By (print) i. M. M. (sign) [Signature]
 Date Logged in 2 By (print) MT (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES NO
 Shipping info _____

2A. Were custody seals present? YES (circle) on cooler on samples NO
 How many _____ Name _____ Date _____

2B. Were custody seals intact upon arrival? _____ YES NO N/A

3. Were custody papers dry and intact when received? _____ YES NO

4. Were custody papers filled out properly (ink, signed, etc)? _____ YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) _____ YES NO

6. Indicate the packing in cooler: (if other, describe) _____

- Bubble Wrap Foam blocks Bags None
- Cloth material Cardboard Styrofoam Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: Wet Blue/Gel None Temp(°C) _____

Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES NO
 If YES, what time were they transferred to freezer? _____

9. Did all bottles arrive unbroken/unopened? _____ YES NO

10. Are there any missing / extra samples? _____ YES NO

11. Are samples in the appropriate containers for indicated tests? _____ YES NO

12. Are sample labels present, in good condition and complete? _____ YES NO

13. Do the sample labels agree with custody papers? _____ YES NO

14. Was sufficient amount of sample sent for tests requested? _____ YES NO

15. Are the samples appropriately preserved? _____ YES NO N/A

16. Did you check preservatives for all bottles for each sample? _____ YES NO N/A

17. Did you document your preservative check? _____ YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A

21. Was the client contacted concerning this sample delivery? _____ YES NO

If YES, Who was called? _____ By _____ Date: _____

COMMENTS

Curtis & Tompkins Sample Preservation for 256049

Sample	pH: <2	>9	>12	Other
-001a	[]	[]	[]	_____
b	[X]	[]	[]	_____
c	[]	[]	[]	_____
d	[]	[]	[]	_____
e	[]	[]	[]	_____
f	[]	[]	[]	_____
-002a	[]	[]	[]	_____
b	[X]	[]	[]	_____
c	[]	[]	[]	_____
d	[]	[]	[]	_____
e	[]	[]	[]	_____
f	[]	[]	[]	_____
-003a	[]	[]	[]	_____
b	[X]	[]	[]	_____
c	[]	[]	[]	_____
d	[]	[]	[]	_____
e	[]	[]	[]	_____
f	[]	[]	[]	_____

Sample	pH: <2	>9	>12	Other
-004a	[]	[]	[]	_____
b	[X]	[]	[]	_____
c	[]	[]	[]	_____
d	[]	[]	[]	_____
e	[]	[]	[]	_____
f	[]	[]	[]	_____
-005a	[]	[]	[]	_____
b	[X]	[]	[]	_____
c	[]	[]	[]	_____
d	[]	[]	[]	_____
e	[]	[]	[]	_____
f	[]	[]	[]	_____
-006a	[]	[]	[]	_____
b	[X]	[]	[]	_____
c	[]	[]	[]	_____
d	[]	[]	[]	_____
e	[]	[]	[]	_____
f	[]	[]	[]	_____

Analyst: M7

Date: 4/22/14

Detections Summary for 256049

Client : Suisun Bay Reserve Fleet
 Project : STANDARD
 Location : Storm Water Sampling

Client Sample ID : PARKING LOT Laboratory Sample ID : 256049-001

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1,900		49	16	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	1,800		290	94	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Arsenic	5.1		5.0	1.3	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Barium	65		5.0	1.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Chromium	5.8		5.0	0.57	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Copper	31		5.0	0.99	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Nickel	5.5		5.0	0.71	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Vanadium	15		5.0	0.67	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Zinc	180		20	3.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Specific Conductance	5,440		1.0		umhos/cm	TOTAL	1.000	SM2510B	METHOD
pH	7.9		1.0		SU	TOTAL	1.000	EPA 9040C	METHOD
Total Suspended Solids	40		6		mg/L	TOTAL	1.111	SM2540D	METHOD

Client Sample ID : GREEN MOUNTAIN STATE Laboratory Sample ID : 256049-002

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	77	Y	50	16	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Barium	54		5.0	1.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Copper	9.3		5.0	0.99	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Zinc	3,300		20	3.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Specific Conductance	19		1.0		umhos/cm	TOTAL	1.000	SM2510B	METHOD
pH	6.6		1.0		SU	TOTAL	1.000	EPA 9040C	METHOD
Total Suspended Solids	23		5		mg/L	TOTAL	1.000	SM2540D	METHOD

Client Sample ID : CAPE BRETON Laboratory Sample ID : 256049-003

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	860		51	17	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	520		310	98	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Barium	200		5.0	1.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Copper	43		5.0	0.99	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Lead	21		5.0	0.91	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Zinc	1,900		20	3.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Specific Conductance	76		1.0		umhos/cm	TOTAL	1.000	SM2510B	METHOD
pH	5.8		1.0		SU	TOTAL	1.000	EPA 9040C	METHOD
Total Suspended Solids	14		5		mg/L	TOTAL	1.000	SM2540D	METHOD

Client Sample ID : CAPE BLANCO

Laboratory Sample ID :

256049-004

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1,200		49	16	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	840		290	94	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Barium	240		5.0	1.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Copper	100		5.0	0.99	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Lead	27		5.0	0.91	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Zinc	2,100		20	3.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Specific Conductance	100		1.0		umhos/cm	TOTAL	1.000	SM2510B	METHOD
pH	5.6		1.0		SU	TOTAL	1.000	EPA 9040C	METHOD
Total Suspended Solids	44		5		mg/L	TOTAL	1.000	SM2540D	METHOD

Client Sample ID : COMET

Laboratory Sample ID :

256049-005

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1,800		49	16	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	1,100		290	94	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Barium	370		5.0	1.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Copper	51		5.0	0.99	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Lead	6.6		5.0	0.91	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Zinc	2,000		20	3.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Specific Conductance	100		1.0		umhos/cm	TOTAL	1.000	SM2510B	METHOD
pH	5.4		1.0		SU	TOTAL	1.000	EPA 9040C	METHOD
Total Suspended Solids	9		5		mg/L	TOTAL	1.000	SM2540D	METHOD

Client Sample ID : METEOR

Laboratory Sample ID :

256049-006

Analyte	Result	Flags	RL	MDL	Units	Basis	IDF	Method	Prep Method
Diesel C10-C24	1,200		53	18	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Motor Oil C24-C36	750		320	100	ug/L	As Recd	1.000	EPA 8015B	EPA 3520C
Barium	880		5.0	1.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Copper	44		5.0	0.99	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Lead	7.3		5.0	0.91	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Zinc	2,800		20	3.0	ug/L	TOTAL	1.000	EPA 6010B	EPA 3010A
Specific Conductance	95		1.0		umhos/cm	TOTAL	1.000	SM2510B	METHOD
pH	5.5		1.0		SU	TOTAL	1.000	EPA 9040C	METHOD
Total Suspended Solids	15		5		mg/L	TOTAL	1.000	SM2540D	METHOD

Y = Sample exhibits chromatographic pattern which does not resemble standard

Total Extractable Hydrocarbons			
Lab #:	256049	Location:	Storm Water Sampling
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	04/25/14
Units:	ug/L	Received:	04/25/14
Diln Fac:	1.000	Prepared:	04/29/14
Batch#:	210582		

Field ID: PARKING LOT Lab ID: 256049-001
 Type: SAMPLE Analyzed: 05/01/14

Analyte	Result	RL
Diesel C10-C24	1,900	49
Motor Oil C24-C36	1,800	290

Surrogate	%REC	Limits
o-Terphenyl	101	66-129

Field ID: GREEN MOUNTAIN STATE Lab ID: 256049-002
 Type: SAMPLE Analyzed: 05/01/14

Analyte	Result	RL
Diesel C10-C24	77 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	110	66-129

Field ID: CAPE BRETON Lab ID: 256049-003
 Type: SAMPLE Analyzed: 05/01/14

Analyte	Result	RL
Diesel C10-C24	860	51
Motor Oil C24-C36	520	310

Surrogate	%REC	Limits
o-Terphenyl	103	66-129

Field ID: CAPE BLANCO Lab ID: 256049-004
 Type: SAMPLE Analyzed: 05/01/14

Analyte	Result	RL
Diesel C10-C24	1,200	49
Motor Oil C24-C36	840	290

Surrogate	%REC	Limits
o-Terphenyl	109	66-129

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Total Extractable Hydrocarbons			
Lab #:	256049	Location:	Storm Water Sampling
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	04/25/14
Units:	ug/L	Received:	04/25/14
Diln Fac:	1.000	Prepared:	04/29/14
Batch#:	210582		

Field ID: COMET Lab ID: 256049-005
 Type: SAMPLE Analyzed: 05/01/14

Analyte	Result	RL
Diesel C10-C24	1,800	49
Motor Oil C24-C36	1,100	290

Surrogate	%REC	Limits
o-Terphenyl	111	66-129

Field ID: METEOR Lab ID: 256049-006
 Type: SAMPLE Analyzed: 05/01/14

Analyte	Result	RL
Diesel C10-C24	1,200	53
Motor Oil C24-C36	750	320

Surrogate	%REC	Limits
o-Terphenyl	114	66-129

Type: BLANK Analyzed: 04/30/14
 Lab ID: QC738196

Analyte	Result	RL
Diesel C10-C24	ND	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	102	66-129

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	256049	Location:	Storm Water Sampling
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3520C
Project#:	STANDARD	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	210582
Units:	ug/L	Prepared:	04/29/14
Diln Fac:	1.000	Analyzed:	04/30/14

Type: BS Lab ID: QC738197

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,112	84	61-120

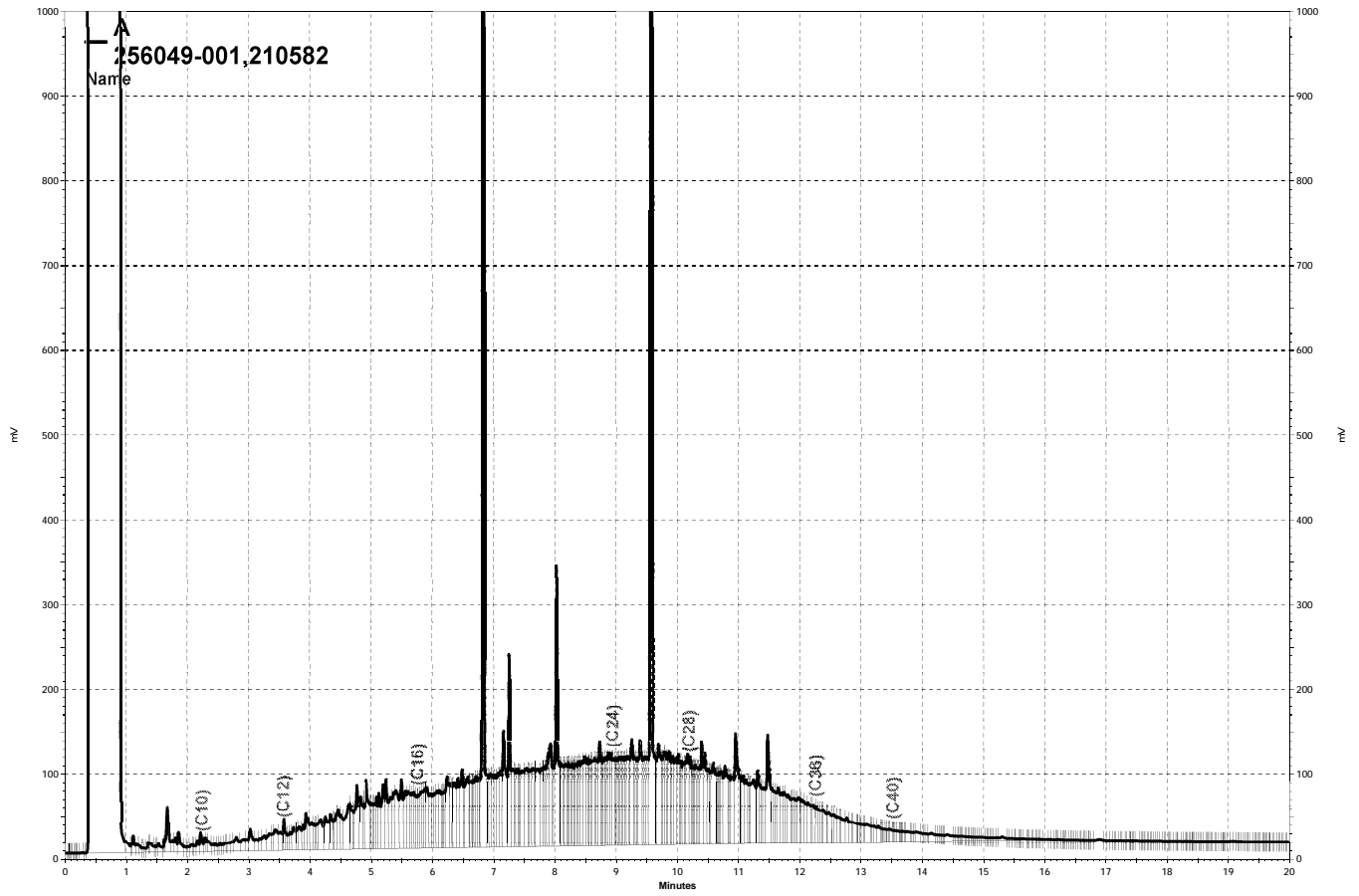
Surrogate	%REC	Limits
o-Terphenyl	107	66-129

Type: BSD Lab ID: QC738198

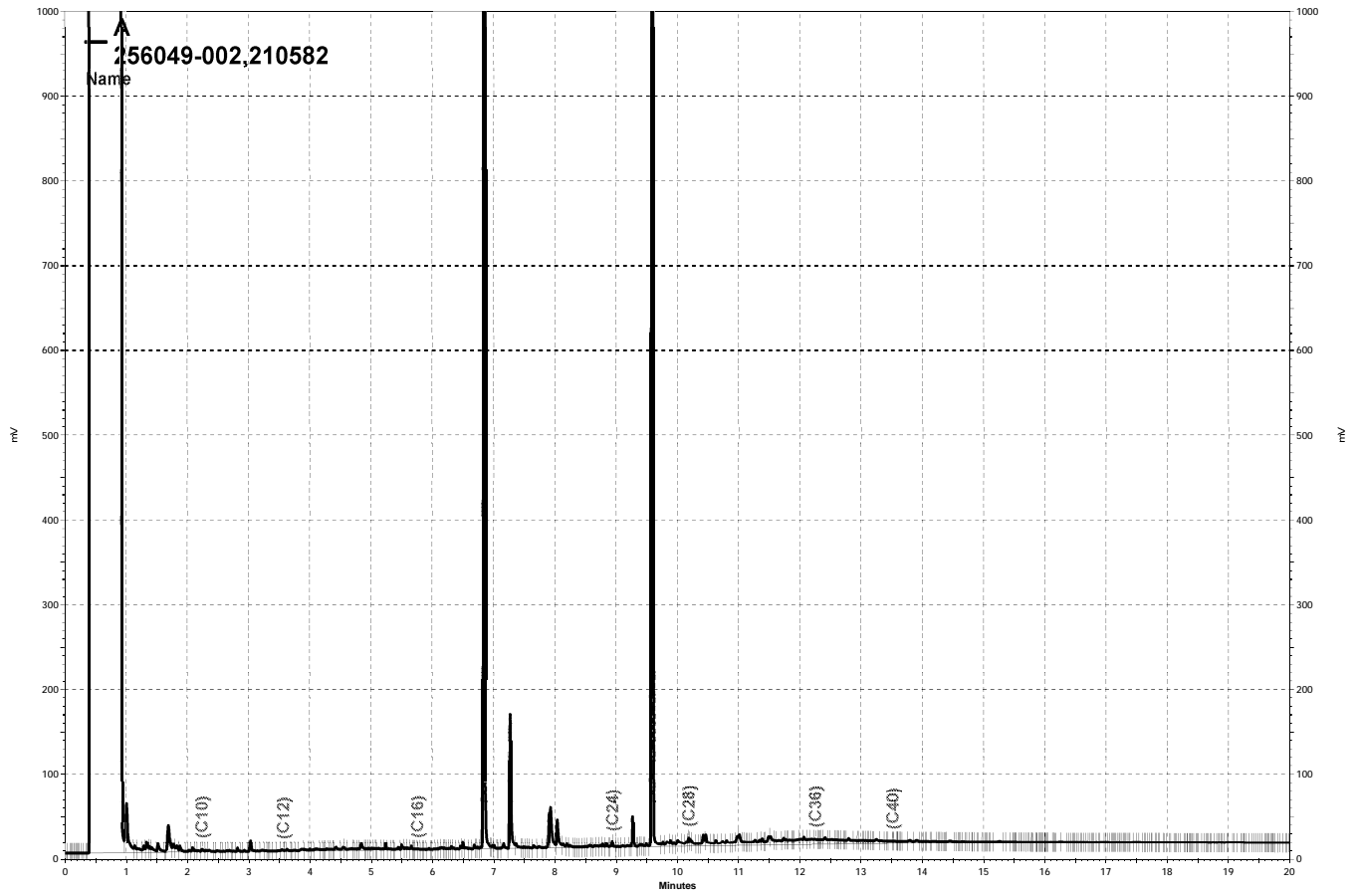
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,252	90	61-120	6	45

Surrogate	%REC	Limits
o-Terphenyl	112	66-129

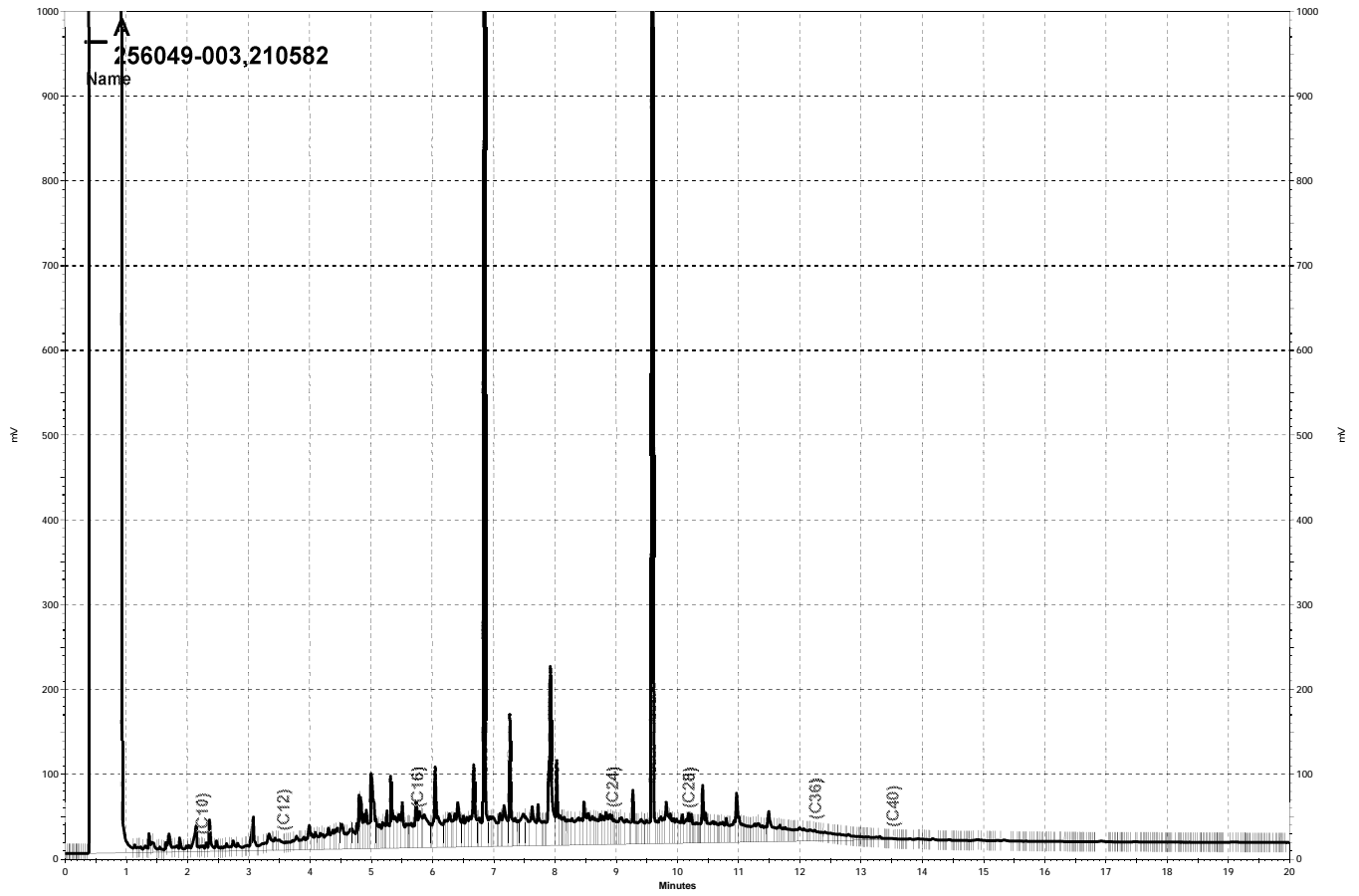
RPD= Relative Percent Difference



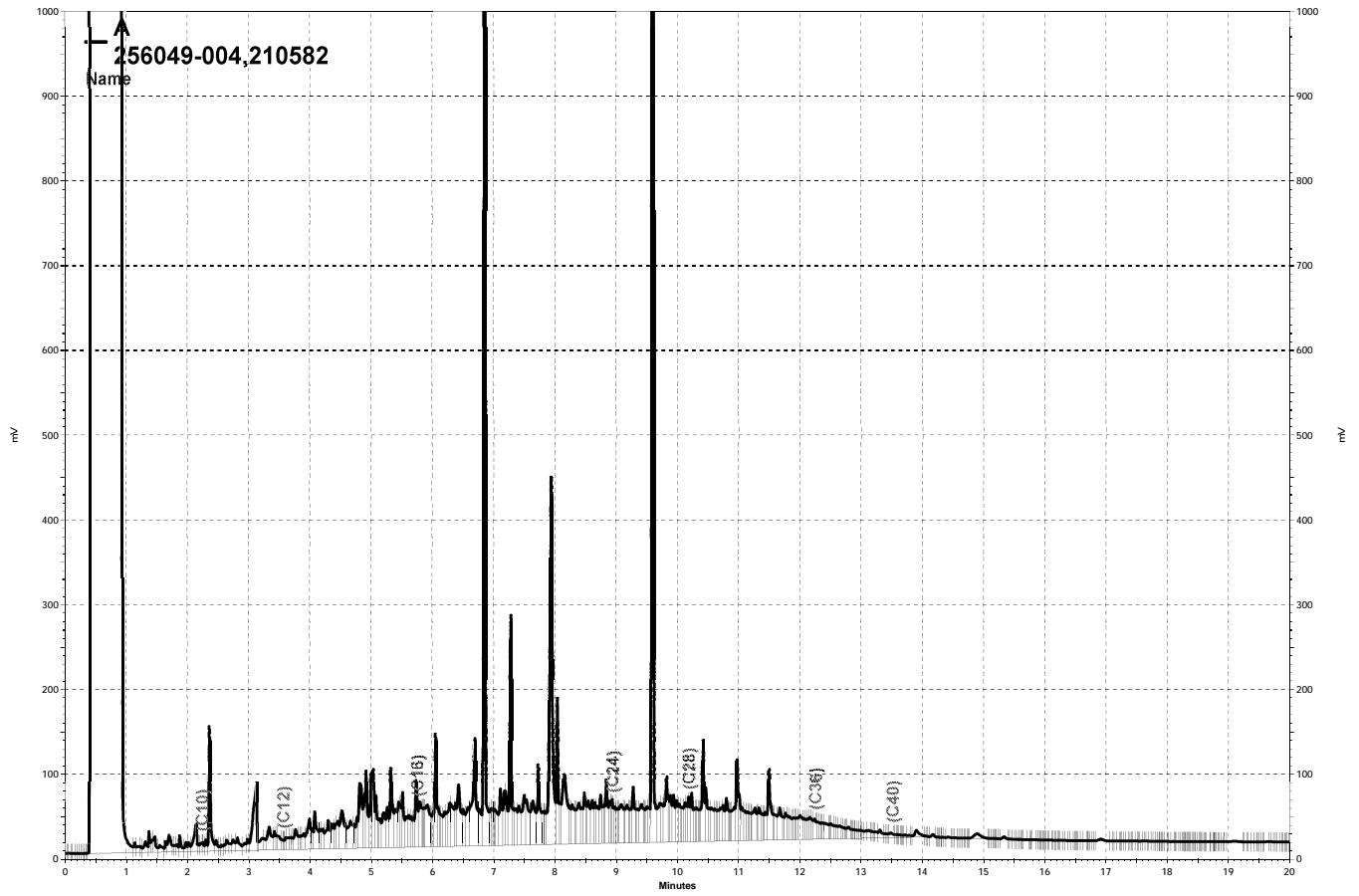
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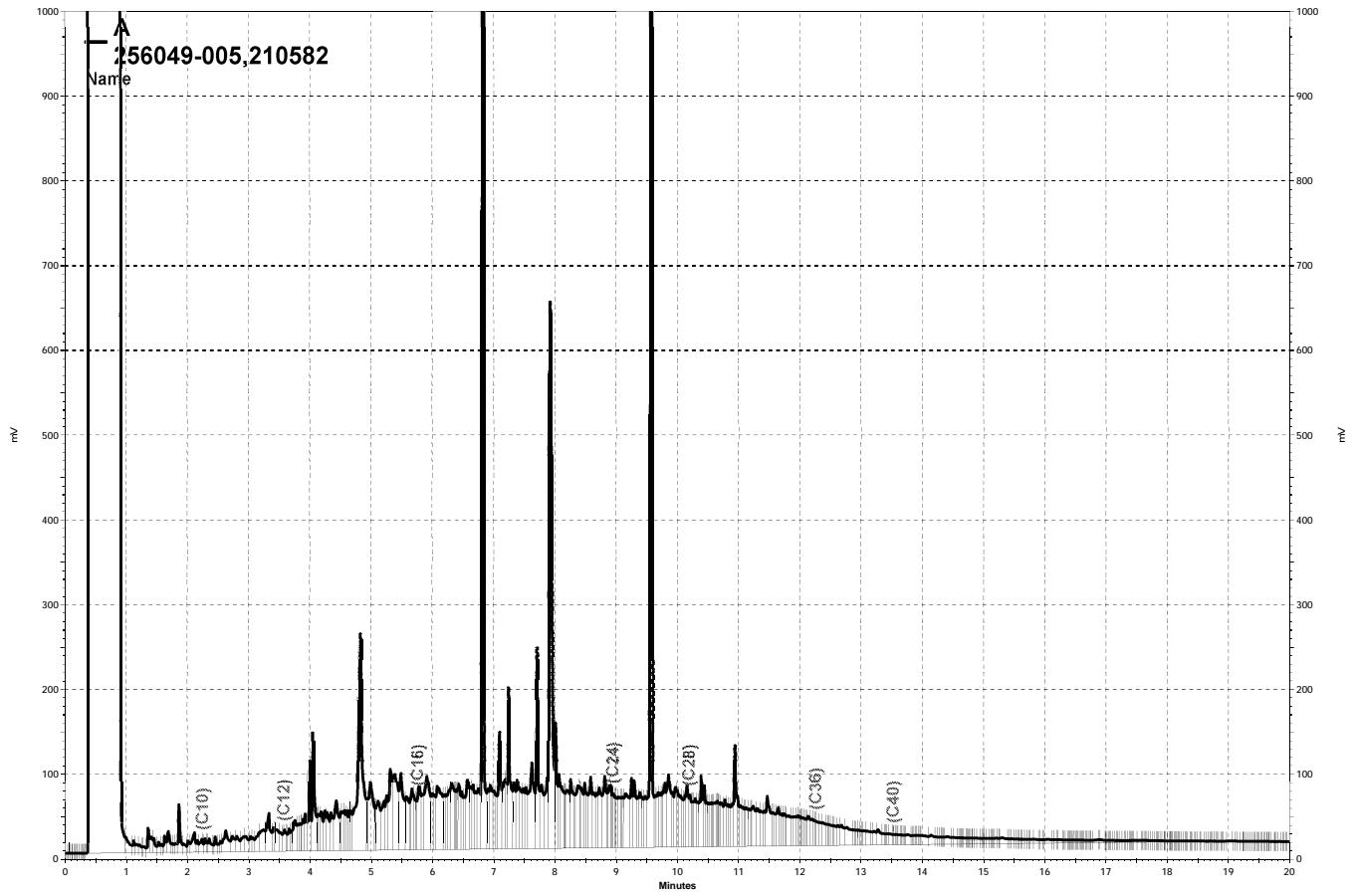
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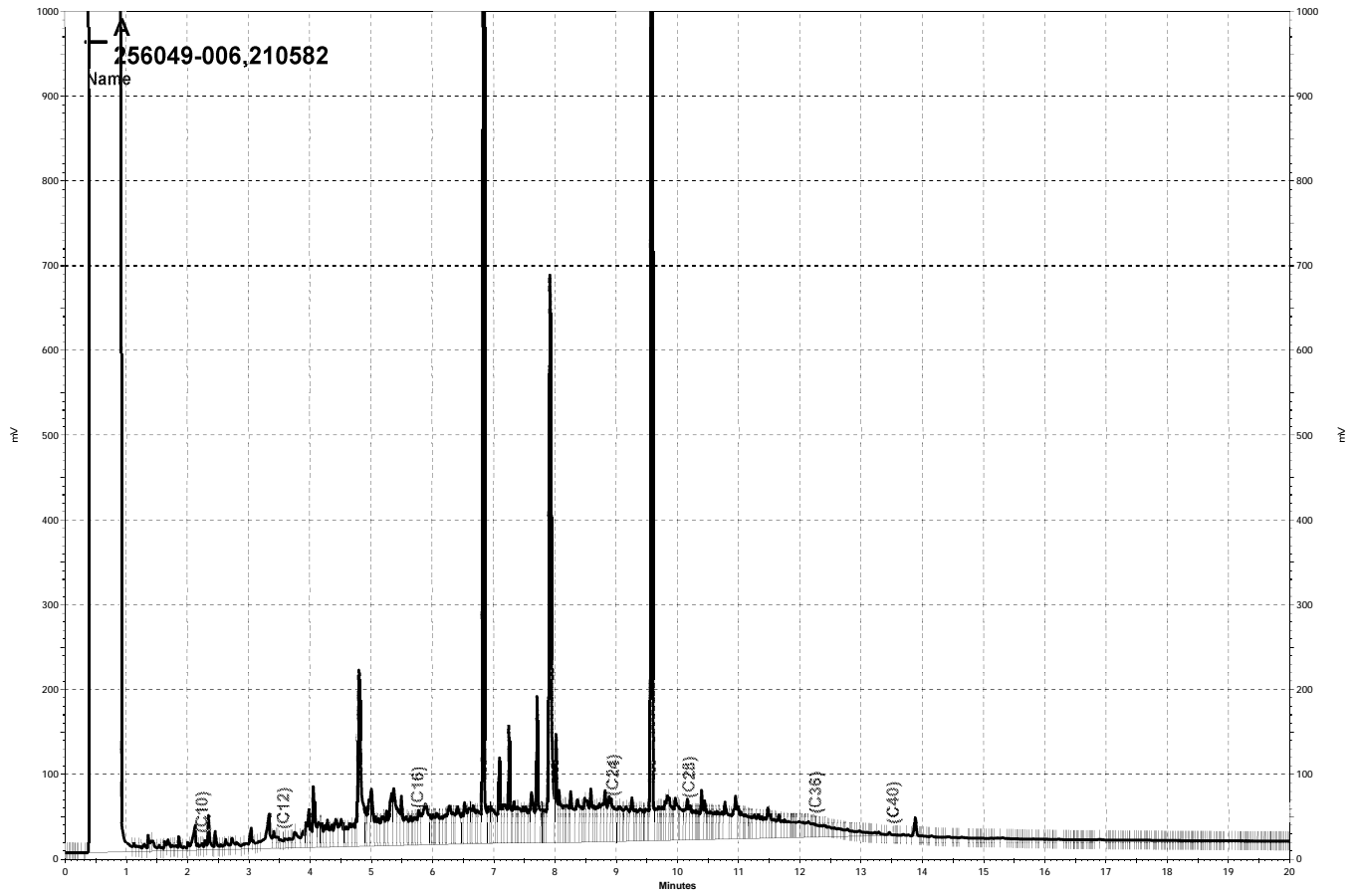
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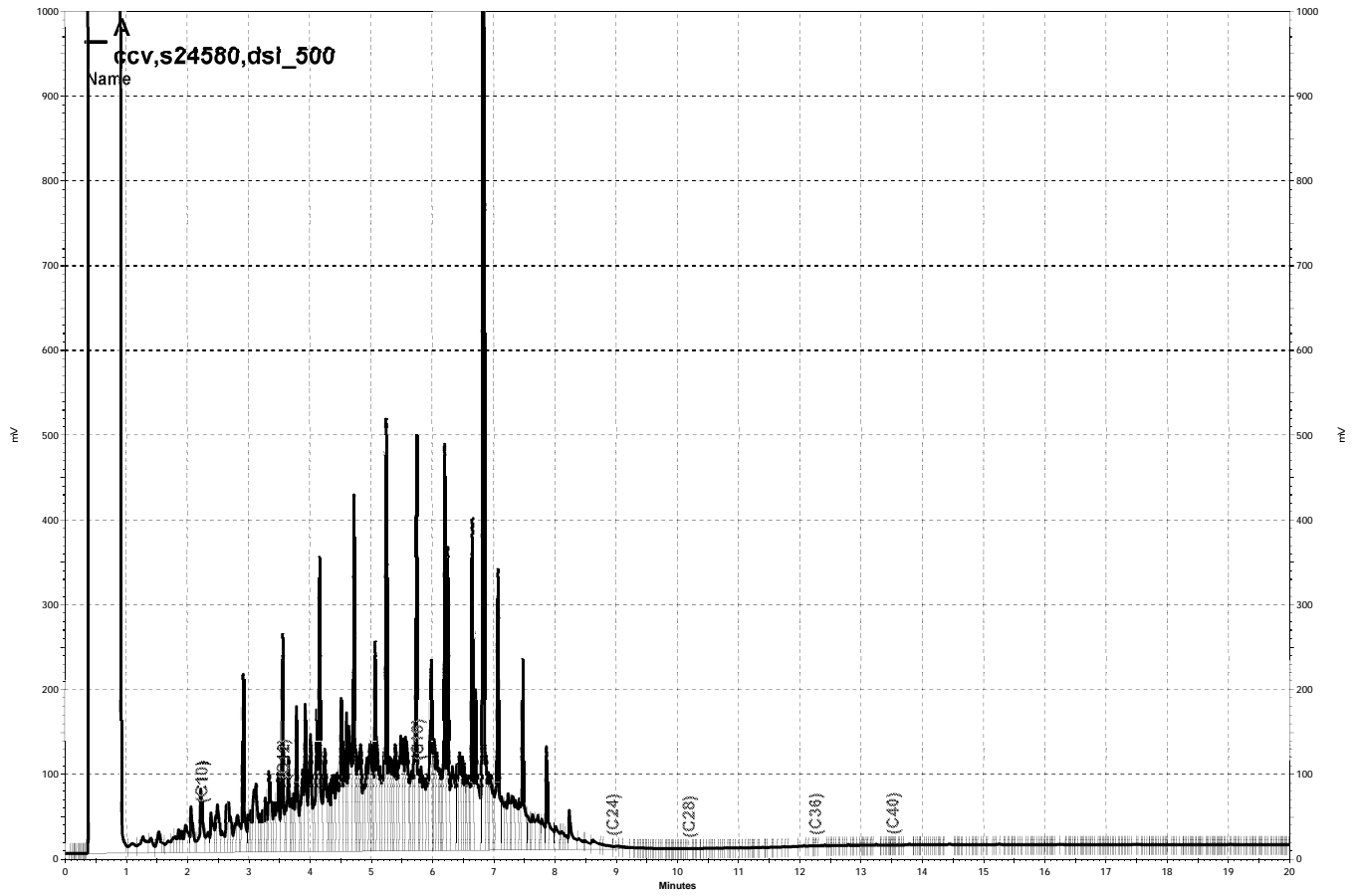
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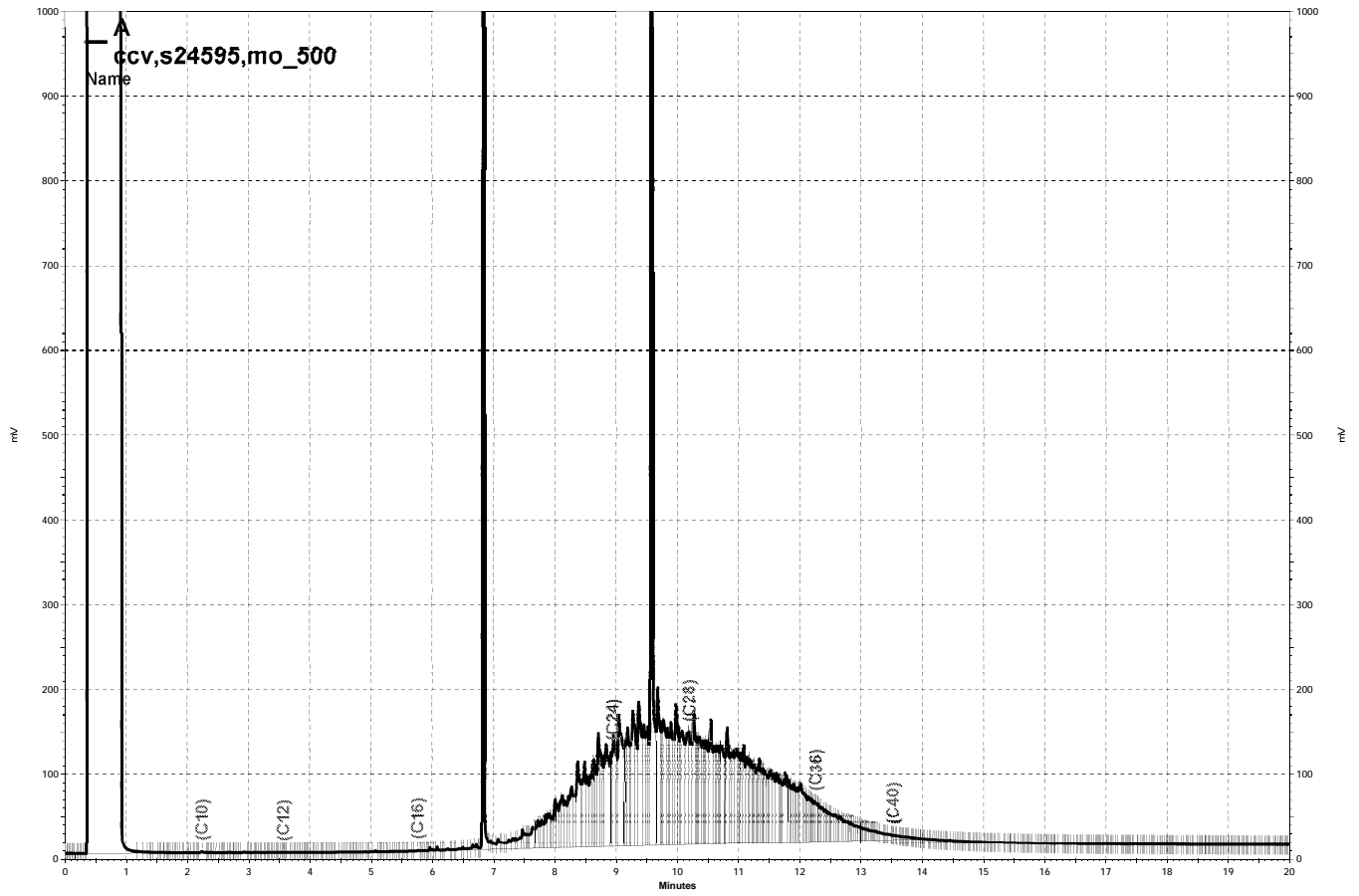
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California Title 22 Metals

Lab #:	256049	Project#:	STANDARD
Client:	Suisun Bay Reserve Fleet	Location:	Storm Water Sampling
Field ID:	PARKING LOT	Diln Fac:	1.000
Lab ID:	256049-001	Sampled:	04/25/14
Matrix:	Water	Received:	04/25/14
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	10	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Arsenic	5.1	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Barium	65	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Chromium	5.8	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Copper	31	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Lead	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Mercury	ND	0.20	210846	05/07/14	05/07/14	METHOD	EPA 7470A
Molybdenum	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Nickel	5.5	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Selenium	ND	10	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Silver	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Thallium	ND	10	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Vanadium	15	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Zinc	180	20	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

California Title 22 Metals			
Lab #:	256049	Project#:	STANDARD
Client:	Suisun Bay Reserve Fleet	Location:	Storm Water Sampling
Field ID:	GREEN MOUNTAIN STATE	Diln Fac:	1.000
Lab ID:	256049-002	Sampled:	04/25/14
Matrix:	Water	Received:	04/25/14
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	10	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Barium	54	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Chromium	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Copper	9.3	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Lead	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Mercury	ND	0.20	210846	05/07/14	05/07/14	METHOD	EPA 7470A
Molybdenum	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Nickel	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Selenium	ND	10	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Silver	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Thallium	ND	10	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Zinc	3,300	20	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

California Title 22 Metals

Lab #:	256049	Project#:	STANDARD
Client:	Suisun Bay Reserve Fleet	Location:	Storm Water Sampling
Field ID:	CAPE BRETON	Diln Fac:	1.000
Lab ID:	256049-003	Sampled:	04/25/14
Matrix:	Water	Received:	04/25/14
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	10	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Barium	200	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Chromium	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Copper	43	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Lead	21	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Mercury	ND	0.20	210846	05/07/14	05/07/14	METHOD	EPA 7470A
Molybdenum	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Nickel	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Selenium	ND	10	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Silver	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Thallium	ND	10	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Zinc	1,900	20	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

California Title 22 Metals			
Lab #:	256049	Project#:	STANDARD
Client:	Suisun Bay Reserve Fleet	Location:	Storm Water Sampling
Field ID:	CAPE BLANCO	Diln Fac:	1.000
Lab ID:	256049-004	Sampled:	04/25/14
Matrix:	Water	Received:	04/25/14
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	10	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Barium	240	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Chromium	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Copper	100	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Lead	27	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Mercury	ND	0.20	210846	05/07/14	05/07/14	METHOD	EPA 7470A
Molybdenum	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Nickel	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Selenium	ND	10	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Silver	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Thallium	ND	10	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Zinc	2,100	20	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

California Title 22 Metals			
Lab #:	256049	Project#:	STANDARD
Client:	Suisun Bay Reserve Fleet	Location:	Storm Water Sampling
Field ID:	COMET	Diln Fac:	1.000
Lab ID:	256049-005	Sampled:	04/25/14
Matrix:	Water	Received:	04/25/14
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	10	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Barium	370	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Chromium	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Copper	51	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Lead	6.6	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Mercury	ND	0.20	210846	05/07/14	05/07/14	METHOD	EPA 7470A
Molybdenum	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Nickel	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Selenium	ND	10	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Silver	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Thallium	ND	10	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Zinc	2,000	20	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

California Title 22 Metals

Lab #:	256049	Project#:	STANDARD
Client:	Suisun Bay Reserve Fleet	Location:	Storm Water Sampling
Field ID:	METEOR	Diln Fac:	1.000
Lab ID:	256049-006	Sampled:	04/25/14
Matrix:	Water	Received:	04/25/14
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	10	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Arsenic	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Barium	880	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Beryllium	ND	2.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Chromium	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Cobalt	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Copper	44	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Lead	7.3	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Mercury	ND	0.20	210846	05/07/14	05/07/14	METHOD	EPA 7470A
Molybdenum	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Nickel	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Selenium	ND	10	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Silver	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Thallium	ND	10	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Vanadium	ND	5.0	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B
Zinc	2,800	20	210633	04/30/14	05/01/14	EPA 3010A	EPA 6010B

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

California Title 22 Metals			
Lab #:	256049	Location:	Storm Water Sampling
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3010A
Project#:	STANDARD	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC738416	Batch#:	210633
Matrix:	Water	Prepared:	04/30/14
Units:	ug/L	Analyzed:	05/01/14

Analyte	Result	RL
Antimony	ND	10
Arsenic	ND	5.0
Barium	ND	5.0
Beryllium	ND	2.0
Cadmium	ND	5.0
Chromium	ND	5.0
Cobalt	ND	5.0
Copper	ND	5.0
Lead	ND	5.0
Molybdenum	ND	5.0
Nickel	ND	5.0
Selenium	ND	10
Silver	ND	5.0
Thallium	ND	10
Vanadium	ND	5.0
Zinc	ND	20

ND= Not Detected

RL= Reporting Limit

Batch QC Report

California Title 22 Metals			
Lab #:	256049	Location:	Storm Water Sampling
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3010A
Project#:	STANDARD	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	210633
Units:	ug/L	Prepared:	04/30/14
Diln Fac:	1.000	Analyzed:	05/01/14

Type: BS Lab ID: QC738417

Analyte	Spiked	Result	%REC	Limits
Antimony	500.0	491.1	98	78-120
Arsenic	100.0	100.5	100	80-120
Barium	2,000	1,918	96	80-120
Beryllium	50.00	50.87	102	80-120
Cadmium	50.00	49.89	100	80-120
Chromium	200.0	193.1	97	80-120
Cobalt	500.0	475.1	95	80-120
Copper	250.0	234.6	94	79-120
Lead	100.0	93.41	93	80-120
Molybdenum	400.0	393.8	98	80-120
Nickel	500.0	479.3	96	80-120
Selenium	100.0	95.09	95	80-120
Silver	50.00	49.02	98	80-120
Thallium	100.0	101.0	101	80-120
Vanadium	500.0	487.1	97	80-120
Zinc	500.0	483.3	97	80-120

Type: BSD Lab ID: QC738418

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	496.3	99	78-120	1	20
Arsenic	100.0	102.6	103	80-120	2	20
Barium	2,000	1,934	97	80-120	1	20
Beryllium	50.00	52.13	104	80-120	2	20
Cadmium	50.00	51.11	102	80-120	2	20
Chromium	200.0	194.2	97	80-120	1	20
Cobalt	500.0	483.9	97	80-120	2	20
Copper	250.0	239.9	96	79-120	2	20
Lead	100.0	95.40	95	80-120	2	20
Molybdenum	400.0	397.8	99	80-120	1	20
Nickel	500.0	486.8	97	80-120	2	20
Selenium	100.0	96.53	97	80-120	2	20
Silver	50.00	49.76	100	80-120	1	20
Thallium	100.0	102.3	102	80-120	1	20
Vanadium	500.0	490.2	98	80-120	1	20
Zinc	500.0	495.6	99	80-120	3	20

RPD= Relative Percent Difference

Batch QC Report

California Title 22 Metals			
Lab #:	256049	Location:	Storm Water Sampling
Client:	Suisun Bay Reserve Fleet	Prep:	EPA 3010A
Project#:	STANDARD	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	210633
MSS Lab ID:	255827-006	Sampled:	04/21/14
Matrix:	Water	Received:	04/21/14
Units:	ug/L	Prepared:	04/30/14
Diln Fac:	1.000	Analyzed:	05/01/14

Type: MS Lab ID: QC738419

Analyte	MSS Result	Spiked	Result	%REC	Limits
Antimony	<0.6500	500.0	498.7	100	76-120
Arsenic	5.152	100.0	109.4	104	79-126
Barium	150.8	2,000	2,052	95	74-120
Beryllium	0.9354	50.00	54.52	107	80-122
Cadmium	<0.5791	50.00	43.76	88	76-122
Chromium	10.57	200.0	201.1	95	76-120
Cobalt	16.27	500.0	472.6	91	74-120
Copper	31.96	250.0	272.9	96	74-122
Lead	11.73	100.0	102.5	91	71-120
Molybdenum	5.251	400.0	393.9	97	78-120
Nickel	42.66	500.0	507.9	93	73-120
Selenium	4.241	100.0	104.5	100	71-127
Silver	<0.6601	50.00	51.70	103	58-128
Thallium	<2.020	100.0	94.01	94	71-120
Vanadium	17.83	500.0	504.7	97	80-120
Zinc	25.32	500.0	497.1	94	74-123

Type: MSD Lab ID: QC738420

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	500.0	495.1	99	76-120	1	20
Arsenic	100.0	106.3	101	79-126	3	20
Barium	2,000	2,018	93	74-120	2	25
Beryllium	50.00	54.75	108	80-122	0	20
Cadmium	50.00	43.57	87	76-122	0	20
Chromium	200.0	199.1	94	76-120	1	20
Cobalt	500.0	471.8	91	74-120	0	20
Copper	250.0	273.8	97	74-122	0	21
Lead	100.0	102.0	90	71-120	0	20
Molybdenum	400.0	391.0	96	78-120	1	20
Nickel	500.0	503.4	92	73-120	1	20
Selenium	100.0	101.9	98	71-127	2	35
Silver	50.00	50.98	102	58-128	1	22
Thallium	100.0	92.34	92	71-120	2	20
Vanadium	500.0	500.2	96	80-120	1	20
Zinc	500.0	495.5	94	74-123	0	20

RPD= Relative Percent Difference

Batch QC Report

California Title 22 Metals			
Lab #:	256049	Location:	Storm Water Sampling
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	210846
Lab ID:	QC739268	Prepared:	05/07/14
Matrix:	Water	Analyzed:	05/07/14
Units:	ug/L		

Result	RL
ND	0.20

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

California Title 22 Metals			
Lab #:	256049	Location:	Storm Water Sampling
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	210846
Matrix:	Water	Prepared:	05/07/14
Units:	ug/L	Analyzed:	05/07/14
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC739269	2.500	2.687	107	80-120		
BSD	QC739270	2.500	2.728	109	80-120	2	20

RPD= Relative Percent Difference

Batch QC Report

California Title 22 Metals			
Lab #:	256049	Location:	Storm Water Sampling
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	210846
Field ID:	ZZZZZZZZZZ	Sampled:	04/21/14
MSS Lab ID:	255910-003	Received:	04/23/14
Matrix:	Water	Prepared:	05/07/14
Units:	ug/L	Analyzed:	05/07/14
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC739271	<0.04000	2.500	2.643	106	57-127		
MSD	QC739272		2.500	2.647	106	57-127	0	42

RPD= Relative Percent Difference

Total Oil & Grease (HEM)			
Lab #:	256049	Location:	Storm Water Sampling
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA 1664A
Analyte:	Oil & Grease (HEM)	Batch#:	210575
Matrix:	Water	Sampled:	04/25/14
Units:	mg/L	Received:	04/25/14

Field ID	Type	Lab ID	Result	RL	Diln Fac	Analyzed
PARKING LOT	SAMPLE	256049-001	ND	4.80	0.9600	04/29/14
GREEN MOUNTAIN STATE	SAMPLE	256049-002	ND	5.30	1.060	04/29/14
CAPE BRETON	SAMPLE	256049-003	ND	4.90	0.9800	04/29/14
CAPE BLANCO	SAMPLE	256049-004	ND	4.80	0.9600	04/29/14
COMET	SAMPLE	256049-005	ND	4.75	0.9500	04/29/14
METEOR	SAMPLE	256049-006	ND	4.85	0.9700	04/29/14
	BLANK	QC738175	ND	5.00	1.000	04/28/14

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Oil & Grease (HEM)			
Lab #:	256049	Location:	Storm Water Sampling
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA 1664A
Analyte:	Oil & Grease (HEM)	Diln Fac:	1.000
Matrix:	Water	Batch#:	210575
Units:	mg/L	Analyzed:	04/28/14

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC738176	40.00	34.20	86	78-114		
BSD	QC738177	40.00	31.20	78	78-114	9	18

RPD= Relative Percent Difference

Conductivity			
Lab #:	256049	Location:	Storm Water Sampling
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	STANDARD	Analysis:	SM2510B
Analyte:	Specific Conductance	Batch#:	210708
Matrix:	Water	Received:	04/25/14
Units:	umhos/cm	Analyzed:	05/02/14 12:36
Diln Fac:	1.000		

Field ID	Type	Lab ID	Result	RL	Sampled
PARKING LOT	SAMPLE	256049-001	5,440	1.0	04/25/14 09:05
GREEN MOUNTAIN STATE	SAMPLE	256049-002	19	1.0	04/25/14 08:58
CAPE BRETON	SAMPLE	256049-003	76	1.0	04/25/14 09:55
CAPE BLANCO	SAMPLE	256049-004	100	1.0	04/25/14 09:10
COMET	SAMPLE	256049-005	100	1.0	04/25/14 09:00
METEOR	SAMPLE	256049-006	95	1.0	04/25/14 09:10
	BLANK	QC738713	ND	1.0	

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Conductivity			
Lab #:	256049	Location:	Storm Water Sampling
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	STANDARD	Analysis:	SM2510B
Analyte:	Specific Conductance	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	210708
MSS Lab ID:	256093-001	Sampled:	04/25/14 14:00
Matrix:	Water	Received:	04/28/14
Units:	umhos/cm	Analyzed:	05/02/14 12:36

Type	Lab ID	MSS Result	Spiked	Result	RL	%REC	Limits	RPD	Lim
LCS	QC738714		1,000	967.0		97	90-110		
SDUP	QC738715	2,127		2,132	1.000			0	20

RL= Reporting Limit

RPD= Relative Percent Difference

pH			
Lab #:	256049	Location:	Storm Water Sampling
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA 9040C
Analyte:	pH	Batch#:	210483
Matrix:	Water	Received:	04/25/14
Units:	SU	Analyzed:	04/26/14 17:06
Diln Fac:	1.000		

Field ID	Lab ID	Result	RL	Sampled
PARKING LOT	256049-001	7.9	1.0	04/25/14 09:05
GREEN MOUNTAIN STATE	256049-002	6.6	1.0	04/25/14 08:58
CAPE BRETON	256049-003	5.8	1.0	04/25/14 09:55
CAPE BLANCO	256049-004	5.6	1.0	04/25/14 09:10
COMET	256049-005	5.4	1.0	04/25/14 09:00
METEOR	256049-006	5.5	1.0	04/25/14 09:10

RL= Reporting Limit

Batch QC Report

pH			
Lab #:	256049	Location:	Storm Water Sampling
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	STANDARD	Analysis:	EPA 9040C
Analyte:	pH	Units:	SU
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	210483
MSS Lab ID:	256021-001	Sampled:	04/25/14 08:45
Lab ID:	QC737801	Received:	04/25/14
Matrix:	Water	Analyzed:	04/26/14 13:43

MSS Result	Result	RL	RPD	Lim
7.720	7.760	1.000	1	20

RL= Reporting Limit

RPD= Relative Percent Difference

Total Suspended Solids (TSS)			
Lab #:	256049	Location:	Storm Water Sampling
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	STANDARD	Analysis:	SM2540D
Analyte:	Total Suspended Solids	Sampled:	04/25/14
Matrix:	Water	Received:	04/25/14
Units:	mg/L	Prepared:	04/30/14
Batch#:	210631	Analyzed:	05/01/14

Field ID	Type	Lab ID	Result	RL	Diln Fac
PARKING LOT	SAMPLE	256049-001	40	6	1.111
GREEN MOUNTAIN STATE	SAMPLE	256049-002	23	5	1.000
CAPE BRETON	SAMPLE	256049-003	14	5	1.000
CAPE BLANCO	SAMPLE	256049-004	44	5	1.000
COMET	SAMPLE	256049-005	9	5	1.000
METEOR	SAMPLE	256049-006	15	5	1.000
	BLANK	QC738404	ND	1	0.2000

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Suspended Solids (TSS)			
Lab #:	256049	Location:	Storm Water Sampling
Client:	Suisun Bay Reserve Fleet	Prep:	METHOD
Project#:	STANDARD	Analysis:	SM2540D
Analyte:	Total Suspended Solids	Batch#:	210631
Field ID:	ZZZZZZZZZZ	Sampled:	04/25/14
MSS Lab ID:	256066-001	Received:	04/28/14
Matrix:	Water	Prepared:	04/30/14
Units:	mg/L	Analyzed:	05/01/14
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC738405		50.00	55.00	110	80-120		
BSD	QC738406		50.00	57.00	114	80-120	4	5
MS	QC738407	70.00	50.00	113.0	86	52-132		
MSD	QC738408		50.00	106.0	72	52-132	6 *	5

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Laboratory Job Number 256049

Subcontracted Products

Alpha Analytical Dublin



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

14 May 2014

Curtis & Tompkins, LTD.

Attn: Will Rice

2323 Fifth Street

Berkeley, CA 94710

RE: Stormwater Sampling

Work Order: 14D2149

Enclosed are the results of analyses for samples received by the laboratory on 04/29/14 21:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips
Project Manager



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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CHEMICAL EXAMINATION REPORT

Page 1 of 4

Curtis & Tompkins, LTD.
2323 Fifth Street
Berkeley, CA 94710
Attn: Will Rice

Report Date: 05/14/14 14:12
Project No: 256049
Project ID: Stormwater Sampling

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
14D2149	04/29/2014 21:40	RP C&T	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Parking Lot	14D2149-01	Water	04/25/14 09:05	04/29/14 21:40
Green Mountain State	14D2149-02	Water	04/25/14 08:58	04/29/14 21:40
Cape Breton	14D2149-03	Water	04/25/14 09:55	04/29/14 21:40
Cape Blanco	14D2149-04	Water	04/25/14 09:10	04/29/14 21:40
Comet	14D2149-05	Water	04/25/14 09:00	04/29/14 21:40
Meteor	14D2149-06	Water	04/25/14 09:10	04/29/14 21:40

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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CHEMICAL EXAMINATION REPORT

Page 2 of 4

Curtis & Tompkins, LTD.
 2323 Fifth Street
 Berkeley, CA 94710
 Attn: Will Rice

Report Date: 05/14/14 14:12
 Project No: 256049
 Project ID: Stormwater Sampling

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
14D2149	04/29/2014 21:40	RP C&T	

Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Parking Lot (14D2149-01)			Sample Type: Water			Sampled: 04/25/14 09:05		
Metals by APHA/EPA Methods								
Mercury	EPA 1631E	AE41260	05/13/14 13:00	05/13/14 14:56	10	28.6 ng/l	5.00	
Green Mountain State (14D2149-02)			Sample Type: Water			Sampled: 04/25/14 08:58		
Metals by APHA/EPA Methods								
Mercury	EPA 1631E	AE41260	05/13/14 13:00	05/13/14 15:04	1	12.7 ng/l	0.500	
Cape Breton (14D2149-03)			Sample Type: Water			Sampled: 04/25/14 09:55		
Metals by APHA/EPA Methods								
Mercury	EPA 1631E	AE41260	05/13/14 13:00	05/13/14 15:29	1	3.98 ng/l	0.500	
Cape Blanco (14D2149-04)			Sample Type: Water			Sampled: 04/25/14 09:10		
Metals by APHA/EPA Methods								
Mercury	EPA 1631E	AE41260	05/13/14 13:00	05/13/14 15:37	10	24.6 ng/l	5.00	
Comet (14D2149-05)			Sample Type: Water			Sampled: 04/25/14 09:00		
Metals by APHA/EPA Methods								
Mercury	EPA 1631E	AE41260	05/13/14 13:00	05/13/14 15:45	1	6.86 ng/l	0.500	
Meteor (14D2149-06)			Sample Type: Water			Sampled: 04/25/14 09:10		
Metals by APHA/EPA Methods								
Mercury	EPA 1631E	AE41260	05/13/14 13:00	05/13/14 15:53	1	8.38 ng/l	0.500	

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CHEMICAL EXAMINATION REPORT

Page 3 of 4

Curtis & Tompkins, LTD.
 2323 Fifth Street
 Berkeley, CA 94710
 Attn: Will Rice

Report Date: 05/14/14 14:12
 Project No: 256049
 Project ID: Stormwater Sampling

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
14D2149	04/29/2014 21:40	RP C&T	

Metals by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE41260 - EPA 1631										
Blank (AE41260-BLK1)				Prepared & Analyzed: 05/13/14						
Mercury	ND	0.500	ng/l							
LCS (AE41260-BS1)				Prepared & Analyzed: 05/13/14						
Mercury	5.26	0.500	ng/l	5.00		105	77-123			
Matrix Spike (AE41260-MS1)				Source: 14D2149-02 Prepared & Analyzed: 05/13/14						
Mercury	34.1	0.500	ng/l	25.0	12.7	85.6	71-125			
Matrix Spike (AE41260-MS2)				Source: 14E0366-03 Prepared & Analyzed: 05/13/14						
Mercury	21.0	0.500	ng/l	25.0	1.39	78.3	71-125			
Matrix Spike Dup (AE41260-MSD1)				Source: 14D2149-02 Prepared & Analyzed: 05/13/14						
Mercury	36.6	0.500	ng/l	25.0	12.7	95.8	71-125	7.24	24	

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CHEMICAL EXAMINATION REPORT

Page 4 of 4

Curtis & Tompkins, LTD.
2323 Fifth Street
Berkeley, CA 94710
Attn: Will Rice

Report Date: 05/14/14 14:12
Project No: 256049
Project ID: Stormwater Sampling

<u>Order Number</u>	<u>Receipt Date/Time</u>	<u>Client Code</u>	<u>Client PO/Reference</u>
14D2149	04/29/2014 21:40	RP C&T	

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
PQL Practical Quantitation Limit

1402149

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878
2323 Fifth Street
Berkeley, CA 94710
(510) 486-0900
(510) 486-0532

Tompkins

Project Number: 256049
Site: Storm Water Sampling

Subcontract Laboratory:
Alpha Analytical Dublin
6398 Dougherty Rd. #35
Dublin, CA 94568
(925) 828-6226
ATTN: Robbie Phillips

Results due: Report Level: II

Please send report to: Will S Rice (will.rice@ctberk.com)
*** Please report using Sample ID rather than C&T Lab #.

Sample ID	Sampled	Matrix	Analysis	C&T Lab #	Comments
PARKING LOT	04/25 09:05	Water	1631	256049-001	
GREEN MOUNTAIN STATE	04/25 08:58	Water	1631	256049-002	
CAPE BRETON	04/25 09:55	Water	1631	256049-003	
CAPE BLANCO	04/25 09:10	Water	1631	256049-004	
COMET	04/25 09:00	Water	1631	256049-005	
METEOR	04/25 09:10	Water	1631	256049-006	

Notes:	Relinquished By:	Received By:
	<i>[Signature]</i>	<i>Ray Wood</i>
	Date/Time: 4/29/14 1645	Date/Time: 4-29-14 1645
	<i>Wood</i>	<i>LAB Wood</i>
	Date/Time: 4-29-14 2140	Date/Time: 4-29-14 2140

Signature on this form constitutes a firm Purchase Order for the services requested above.