



**DATA VALIDATION
SHIPROCK, NM
UMTRA SITE**

**June 1999
Water Sampling**

Prepared by the
U.S. Department of Energy
Grand Junction Office



RECORD COPY.

SHIPROCK, NEW MEXICO
Sampled June 1999

DATA PACKAGE CONTENTS

This data package includes the following information:

- | <u>Item No.</u> | <u>Description of Contents</u> |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Site Hydrologist Summary |
| 2. | Data Package Assessment, which includes the following: <ul style="list-style-type: none">a. Field procedures verification checklistb. Confirmation that chain-of-custody was maintained.c. Confirmation that holding time requirements were met.d. Evaluation of the adequacy of the QC sample results. |
| 3. | Data Assessment Summary, which describes problems identified in the data validation process and summarizes the validator's findings. |
| 4. | Anomalous Data Review Checksheets which list the subset of data that merits explanation or follow-up action. The "Disposition" column of this report describes the evaluator's judgments on the listed anomalies. |
| 5. | UMTRA Database Printouts of analytical data organized as follows: <ul style="list-style-type: none">a. Ground Water Quality Data (included on disk)b. Surface Water Quality Data (included on disk)c. Equipment Blank Data (included on disk)d. Time Versus Concentration Graphse. Static Ground Water Level Measurement Data |
| 6. | Sampling and Analysis Work Order and Trip Reports. |

Site Hydrologist Summary

Site: Shiprock

Sampling Period: June 2 to June 8, 1999

SUMMARY CRITERIA

1. **Did concentrations in water from any domestic wells sampled exceed a ground water standard, a primary drinking water standard, or health advisory?**

The selenium concentration from well 847 (0.0406 mg/L) exceeded the UMTRA ground water standard. The nitrate (1,070 mg/L), net gross alpha (36.3 pCi/L), and selenium (1.65 mg/L) concentrations from well 848 exceeded UMTRA ground water and primary drinking water standards, and the uranium concentration (0.0551mg/L) in well 848 exceeded the UMTRA ground water standard. Well 848 was installed for irrigation purposes and currently is inactive (no pump and casing had been welded shut), and well 847 is being used for irrigation only.

2. **Were standards exceeded at any point-of-compliance wells?**

There are no point-of-compliance wells established at the Shiprock site because of preexisting ground water contamination (from milling operations) at the repository site.

3. **As a result of this sampling round, is there any indication of unexpected contaminated ground water movement?**

There is no indication of unexpected movement of contaminated ground water; however, previous ground water sampling at the Shiprock site has indicated that inorganic and radiological contamination has been present in both the terrace ground water and alluvial aquifer systems. Assessment of the distribution and rate of movement of contaminated ground water will be made in conjunction with the current field investigation at the Shiprock site. In addition, volatile organic compound samples were collected from selected terrace wells during this event; there were no organic compounds detected in any of the samples collected during this sampling event. Wells with sample concentrations that exceeded UMTRA ground water standards are listed in Table 1. Graphs that show nitrate and uranium concentrations versus time for selected wells are included with the analytical data.

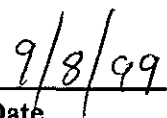
Site Hydrologist Summary (continued)


4. **Is there statistical evidence that UMTRA Project related contaminants were detected in a surface body of water in greater concentrations than upstream ambient water quality?**

Surface water concentrations were compared to benchmark values derived using data from sampling locations 888 and 898. These locations are upgradient of the site on the San Juan River, and have only been sampled three times each. Therefore, the benchmark background value used for comparison was the maximum observed value from these locations. Sample concentrations from floodplain surface-water locations 655 (distributary channel) exceeded the benchmark for gross alpha, selenium, and uranium. This location receives ground water discharge from the contaminated alluvial aquifer; therefore, elevated concentrations of contaminants are expected. Sample concentrations of selenium and uranium exceeded the respective benchmark values at floodplain location 894, which is located downstream of the site on the San Juan River where the distributary channel discharges into the river. In addition, floodplain locations 658 (wetlands) and 657 (canal that drains the wetlands) exceeded the benchmarks for radium-228 and uranium, respectively; these locations also receive discharge of contaminated alluvial ground water.

Terrace locations 425 and 426 (seeps), 886 and 889 (Many Devils Wash), and location 885 (Bob Lee Wash) had sample concentrations up to several orders of magnitude higher than one or more of the benchmarks for gross alpha, nitrate, selenium, and uranium. These locations receive ground water discharge from the terrace aquifer and elevated concentrations of contaminants are expected. In addition, terrace locations 884 (irrigation ditch return flow), 933 (wash), 934 (wash), 935 (seep), 936 (seep), and 942 (pond) had sample concentrations that exceeded one or more of the benchmark values for gross alpha, nitrate, selenium, uranium, and radium 226/228 (slightly above benchmark).


Craig Goodknight
Project Lead


Date


Mark Kautsky
Site Hydrologist

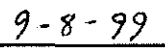

Date

Table 1. Shiprock Wells Exceeding UMTRA standards in June 1999.

Analyte	Standard ¹	Site	Wells Exceeding Standards (concentration in mg/L) ¹
Cadmium	0.010	SHP02	603 (0.0185), 730 (0.0488)
Gross Alpha ²	15	SHP01	608 (400.6), 610 (68.1), 853 (48.7)
Gross Alpha ²	15	SHP02	602 (276.0), 604 (101.9), 725 (15.2), 727 (70.6), 815 (69.1), 833 (63.5), 836 (25.4), 839 (33.4), 841 (32.4), 843 (18.5), 848 (36.3)
Nitrate	44.27	SHP01	608 (2,500), 610 (3,100), 616 (46.9), 617 (738), 620 (160), 732 (57.9), 734 (175), 735 (1,720), 854 (2,030)
Nitrate	44.27	SHP02	600 (516), 602 (129), 603 (4,790), 604 (5,470), 725 (175), 726 (136), 727 (1,490), 728 (281), 730 (517), 731 (1,910), 812 (6,340), 813 (8,440), 814 (4,270), 815 (2,730), 816 (414), 819 (272), 820 (176), 824 (97.7), 826 (137), 827 (611), 828 (73.1), 830 (81.1), 832 (1,790), 833 (1,100), 836 (57.9), 839 (2,180), 841 (1,890), 844 (192), 846 (517), 848 (1,070)
Ra-226+228	5	SHP02	600 (5.71), 602 (14.89), 727 (8.71), 815 (7.47)
Selenium	0.01	SHP01	610 (0.0296), 612 (0.0116), 616 (0.0780), 617 (0.0950), 620 (0.247), 626 (0.0128), 630 (0.0802), 734 (0.151), 735 (0.130), 855 (0.122)
Selenium	0.01	SHP02	603 (0.315), 604 (0.391), 725 (0.0268), 726 (0.0199), 728 (0.0165), 730 (0.0160), 731 (0.303), 812 (6.41), 813 (0.0533), 814 (2.77), 815 (0.300), 816 (0.183), 820 (0.0162), 826 (0.0550), 827 (0.0153), 828 (0.0181), 830 (0.0255), 832 (2.29), 833 (0.500), 835 (0.0467), 836 (0.115), 837 (0.0156), 838 (0.0538), 841 (2.71), 844 (0.208), 846 (0.931), 847 (0.0406), 848 (1.65)
Uranium	0.044	SHP01	608 (1.97), 610 (1.70), 612 (0.127), 616 (0.363), 617 (0.539), 620 (0.813), 626 (0.0878), 630 (0.0920), 734 (0.111), 735 (0.125), 736 (0.425), 853 (0.183), 854 (3.58), 855 (0.156), 856 (0.162), 857 (0.311)
Uranium	0.044	SHP02	600 (1.20), 602 (0.836), 604 (0.0659), 725 (0.321), 727 (0.313), 728 (0.174), 731 (0.0568), 812 (0.121), 813 (0.145), 814 (0.125), 815 (0.332), 816 (0.0663), 819 (1.57), 820 (0.190), 826 (3.40), 827 (0.873), 828 (0.324), 832 (0.0644), 833 (0.128), 836 (0.0563), 839 (0.378), 841 (0.090), 844 (0.0484), 848 (0.0551)

¹ Units are in mg/L except for gross alpha, radium-226, and radium-228, which are in pCi/L.

² Uranium activities were subtracted from the gross alpha results in order to compare to the standard, which excludes uranium and radon.

DATA ASSESSMENT

UGW Water Sampling Field Activities Verification Checklist

Project Shiprock
 Date(s) of Verification 8-27-99

Date(s) of Ground Water Sampling 6-2-99 to 6-8-99
 Name of Verifier Sam Campbell

1. Is the SAP the primary document directing field procedures?

Response
 (Yes, No, N/A)
Yes

List other documents, SOPs, Instructions.

WAs¹ p. 179

2. Were the sampling locations specified in the planning documents sampled?

No

24 of the specified 112 locations were not sampled see attached sheet.

3. Was field equipment calibrated as specified in the above named documents?

No

see attached

Were the number and types (alkalinity, temperature, conductivity, pH, turbidity, DO, Eh) of field measurements taken as specified?
 Were the standard solutions used for the calibration and operational checks of the field instruments brought to within 10°C of the temperature of the water to be sampled?
 Was the calibration information recorded on the field data sheets?

Yes

Except as noted above (see attachment).

4. Was depth to water measured before purging?

Yes

Was this information used to calculate the purge volume?

Yes

5. If conventional purging was used, were the wells purged until parameters stabilized and 3 casing volumes were removed, until the well was purged dry, or until 10 casing volumes were removed?

Yes

Except at 837 - no turbidity stability

6. If low-flow purging was used, was the purge rate less than 0.125 gal/min, and was the drawdown less than 0.3 feet?

N/A

7. Were duplicates taken at a frequency of one per 20 samples?

Yes

8. Were equipment blanks taken at a frequency of one per 20 samples that were collected with nondedicated equipment? No 4 equipment blanks for 88 samples
9. Were trip blanks prepared and included with each shipment of VOC samples? Yes
10. Were QC samples assigned a fictitious site identification number?
Was the true identity of the samples recorded in the field notes? Yes
Yes
11. Were samples collected in the containers specified?
Were certified pre-cleaned containers used for the sampling? Yes
Yes
12. Were samples filtered and preserved as specified? Yes
13. Were the number and types of samples collected as specified? Yes Many locations did not have a full suite of samples collected because of limited well recovery - see trip report
14. Were chain of custody records completed and was sample custody maintained? Yes Time gap between relinquished and received on one COC.
15. Were sample ticket book numbers recorded on field data forms and on the chain of custody? Yes
16. Are field data sheets signed and dated by the field team leader? Yes Except at 852
17. Was all other pertinent information documented on the field data sheets? Yes
18. Was the presence or absence of ice in the cooler documented at every sample location? Yes Except at locations 887 and 936
19. Were water levels measured at the locations specified in the planning documents? Yes

FIELD ACTIVITIES VERIFICATION CHECKLIST ATTACHMENT

Question 2. Following are the locations that were not sampled along with the reason for not sampling: 614, 615, 619, and 624 had a passive sampler installed in the well; 631 and 632 were in an area where access was denied by local authorities; 656, 800, 801, 802, 803, 804, 805, 810, 821, 822, 842, and 845 were dry; 825, 829, 860, 861, and 862 did not recover after purging; and 943 was not sampled per site lead direction.

Question 3. Pre-trip calibration was not recorded for one set of measurement equipment. No turbidity operational check at wells 820 or 854. Equipment was not calibrated at location 933. The pH calibration did not bracket the sample pH at locations 658, 727, 812, 816, 819, 884, 886, 887, 888, and 889.

DATA PACKAGE ASSESSMENT

REQUISITION NUMBERS: 16623 SITE: Shiprock LABORATORY: GJO ANALYSIS DATES: 6-15-99 to 8-11-99

REVIEWER: Sam Campbell Sam Campbell 8-23-99
 NAME (print) SIGNATURE DATE

	ICP-MS	ICP-AES	GFAA	FAA	NaBH ₄	AS	LSc	PC	IC	Gravimetric	Colorimetric	Other GC-MS	
CHAIN OF CUSTODY	①	①	NA	NA	①	①	①	①	①	①	①	①	NA
HOLDING TIME	OK	OK			OK	OK	OK	OK	OK	OK	OK	OK	
calib for VOCs (GC-MS) CALIB. VERIFICATION (For AS, internal tracer)	OK	OK			OK	OK	OK	OK	OK	NA	OK	⑨	
PREP. BLANKS/method blk (Only if digestion)	NA	NA			NA	OK	OK	OK	NA	NA	NA	OK	
INT/CONT CAL. BLANKS <i>Internal standard (GC-MS)</i>	②	③	↓	↓	OK	NA	NA	NA	④	NA	⑤	OK	
ICP SERIAL DILUTION	OK	⑥	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ICS (ICP only)	OK	OK	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
LAB. CONTROL SAMPLE	OK	OK			OK	OK	OK	OK	OK	OK	OK	NA	
DUPLICATES	OK	OK			OK	OK	⑦	OK	OK	OK	OK	NA	
POSTDIGEST. SPKS. (Only if MS fails)	NA	NA			NA	NA	NA	NA	NA	NA	NA	NA	
MATRIX SPKS.	OK	OK			⑧	NA	NA	OK	OK	NA	OK	OK	
OVERALL ASSESS.	OK	OK	↓	↓	OK	OK	OK	OK	OK	OK	OK	OK	↓

REVIEWER COMMENTS: Time gap on one COC between "relinquished" and "received" (ticket # NDF454-NDF458)
 ③ Fe detected in CCRs - no samples affected ④ Cl detected in CCRs - no samples affected
 ① 2-Hexanone initial calibration RSD > 30% - no flags because results were below detection. Several % difference between initial and continuing calib were > 25% - no flags because results were below detection.

ITEMS REQUIRING ATTENTION ② U flag all Sb results because of CCR contamination. ③ U flag K result 259654 because of CCR contamination. ④ U flag NO₂ results 259654 and 259656 and SO₄ result 259659 because of CCR contamination. ⑤ U flag NH₄ results 259654, 259657, and 259659. ⑥ J flag K results 259661 to 259667 because the serial dilution did not meet criteria. ⑦ J flag Ra-228 results because the duplicate did not meet criteria. ⑧ J flag As results 259641 to 259660 because of matrix spike recovery. ⑨ R flag acetone results because the relative response factor was < 0.05. R flag Dichlorodifluoromethane also (same reason)

DATA PACKAGE ASSESSMENT

REQUISITION NUMBERS: 16594 SITE: Shiprock LABORATORY: GJO ANALYSIS DATES: 6-9-99 to 8-7-99

REVIEWER: Sam Campbell Sam Campbell 8-20-99
NAME (print) SIGNATURE DATE

	ICP-MS	ICP-AES	GFAA	FAA	NaBH ₄	AS	LSc	PC	IC	Gravimetric	Colorimetric	Other EPA 351.3 (TKN)	
CHAIN OF CUSTODY	<u>OK</u>	<u>OK</u>	<u>NA</u>	<u>NA</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>NA</u>
HOLDING TIME	<u>OK</u>	<u>OK</u>			<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	
CALIB. VERIFICATION (For AS, internal tracer)	<u>OK</u>	<u>OK</u>			<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	NA	<u>OK</u>	<u>OK</u>	
PREP. BLANKS (Only if digestion)	<u>NA</u>	<u>NA</u>			<u>NA</u>	<u>OK</u>	<u>②</u>	<u>OK</u>	<u>NA</u>	NA	<u>NA</u>	<u>①</u>	
INT/CONT CAL. BLANKS	<u>③</u>	<u>④</u>	<u>↓</u>	<u>↓</u>	<u>OK</u>	NA	NA	NA	<u>⑤</u>	NA	<u>⑥</u>	<u>OK</u>	
ICP SERIAL DILUTION	<u>OK</u>	<u>⑦</u>	NA	NA	NA	NA	NA	NA	NA	NA	NA	<u>NA</u>	
ICS (ICP only)	<u>OK</u>	<u>OK</u>	NA	NA	NA	NA	NA	NA	NA	NA	NA	<u>NA</u>	
LAB. CONTROL SAMPLE	<u>OK</u>	<u>OK</u>			<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	
DUPLICATES	<u>OK</u>	<u>OK</u>			<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	
POSTDIGEST. SPKS. (Only if MS fails)	<u>NA</u>	<u>NA</u>			<u>NA</u>	NA	NA	NA	<u>NA</u>	NA	NA	<u>NA</u>	
MATRIX SPKS.	<u>OK</u>	<u>OK</u>			<u>OK</u>	<u>NA</u>	<u>NA</u>	<u>⑧</u>	<u>OK</u>	NA	<u>OK</u>	<u>OK</u>	
OVERALL ASSESS.	<u>OK</u>	<u>OK</u>	<u>↓</u>	<u>↓</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>OK</u>	<u>↓</u>

REVIEWER COMMENTS: ④ Ca, K, and Sr detected in CCBs - no samples affected ⑤ Cl and SO₄ detected in ICB/CCBs - no samples affected.

ITEMS REQUIRING ATTENTION: ① U flag TKN results 259525, 259531, and 259533 because of prep blank contamination
② U flag Ra-228 results 259549, 259561, 259563, 259564, and 259567 because of prep blank contamination
③ U flag the following Sb results because of CCB contamination: 259422-259427, 521-524, 526-528, 531-541, 544, 545, 547-583. ④ U flag the following Fe results because of CCB contamination: 259422, 424, 425-427, 523, 524, 527, 532, 534, 537, 538, 541, 544, 547, 548, 552, 553, 555, 559, 562, 563, 568, 570-575, 577-579, 581, and 582.
⑤ U flag NO₃ results 259521, 542, 546, 556, 557, 558, 570, 571, 577, and 579 because of CCB contamination.
⑥ U flag NH₄ results 259533, 546, 547, 548, 556, 562, 565, 566, 569, 580, 581, 582, 583 because of CCB contamination.
⑦ J flag K results 259422-533 and 554-573 because the serial dilution did not meet criteria. ⑧ J flag gross alpha results 259422-259526 and 259568 to 259583.

**SHIPROCK, NEW MEXICO
JUNE 1999 SAMPLING
DATA ASSESSMENT SUMMARY**

The DOE-GJO Analytical Laboratory analyzed samples and reported results for this sampling event under requisition numbers 16623 and 16594 for the UMTRA Ground Water Project.

RADIOCHEMICAL ANALYSES

The determination of gross alpha was performed using gas proportional counting (PC). Although not requested, gross beta results are included in this report because gross beta activity is determined concurrently with gross alpha activity. The detection limits for gross alpha are higher than those specified in the planning documents due to high TDS in the samples. Polonium-210 was determined using alpha spectrometry (AS). Radium-226 and radium-228 were determined by liquid scintillation spectrometry (LSc).

Radiological results that were less than the minimum detectable activity (MDA) and/or the 3-sigma counting statistic range were qualified with a "U" flag (nondetect) in the database as reflected in the database printouts.

The following radium-228 results were qualified with a "J" flag (estimated) in the database because the laboratory duplicate did not meet criteria:

SHP01 Surface Water - 259641 (897), 259657 (548).

SHP01 Ground Water - 259656 (733).

SHP02 Surface Water - 259647 (885), 259659 (889), 259660 (886).

SHP02 Ground Water - 259642 (731), 259643 (603), 259644 (727), 259645 (726), 259646 (725), 259648 (830), 259649 (824), 259650 (827), 259651 (826), 259652 (819), 259653 (828), 259654 (equipment blank), 259655 (602), 259658 (813), 259662 (728), 259663 (814), 259664 (816), 259665 (839), 259666 (815), and 259667 (730).

The following radium-228 results were qualified with a "U" flag in the database because of prep blank contamination:

SHP01 Ground Water - 259549 (608), 259561 (617), 259563 (626), 259564 (628), and 259567 (854).

The following gross alpha results were qualified with a "J" flag because the spike recovery did not meet criteria:

SHP01 Surface Water - 259424 (546), 259524 (887), 259568 (896), 259573 (894), 259574 (655), 259577 (658), 259579 (657).

SHP01 Ground Water - 259569 (855), 259570 (856), 259571 (856 duplicate), 259572 (734), 259576 (620), 259580 (630).

SHP02 Surface Water - 259523 (884), 259526 (942), 259575 (425), 259578 (426), 259581 (662), 259582 (662 duplicate), and 259583 (equipment blank).

SHP02 Ground Water 259422 (604), 259423 (732), 259425 (847), 259426 (847 duplicate), 259427 (848), 259520 (836), 259521 (843), 259522 (837), 259525 (846).

METALS/MAJOR CATIONS ANALYSES

The determination of calcium, iron, potassium, magnesium, manganese, sodium, strontium, and vanadium was performed by inductively coupled plasma-atomic emission spectrometry (ICP-AES). Antimony, cadmium, and uranium were analyzed using inductively coupled-mass spectrometry (ICP-MS). Arsenic and selenium were determined by hydride generation (NaBH₄) atomic absorption spectroscopy.

The following antimony results were qualified with a "U" flag in the database because of continuing calibration blank (CCB) contamination:

SHP01 Surface Water - 259641 (897), 259657 (548), 259424 (546), 259524 (887), 259527 (939), 259532 (939 duplicate), 259537 (893), 259541 (888), 259544 (898), 259547 (940), 259548 (941), 259555 (555), 259565 (895), 259568 (896), 259573 (894), 259574 (655), 259577 (658), 259579 (657).

SHP01 Ground Water - 259656 (733), 259423 (732), 259545 (852), 259549 (608), 259551 (735), 259553 (863), 259554 (610), 259556 (612), 259557 (853), 259558 (857), 259560 (616), 259561 (617), 259562 (equipment blank), 259563 (626), 259564 (628), 259566 (736), 259567 (854), 259569 (855), 259570 (856), 259571 (856 duplicate), 259572 (734), 259576 (620), 259580 (630).

SHP02 Surface Water - 259647 (885), 259658 (813), 259660 (886), 259523 (884), 259526 (942), 259534 (935), 259535 (933), 259536 (936), 259537 (893), 259538 (934), 259559 (553), 259575 (425), 259578 (426), 259581 (662), 259582 (662 duplicate), and 259583 (equipment blank).

SHP02 Ground Water - 259642 (731), 259643 (603), 259644 (727), 259645 (726), 259646 (725), 259648 (830), 259649 (824), 259650 (827), 259651 (826), 259652 (819), 259653 (828), 259654 (equipment blank), 259655 (602), 259658 (813), 259661 (812), 259662 (728), 259663 (814), 259664 (816), 259665 (839), 259666 (815), 259667 (730), 259422 (604), 259425 (847), 259426 (847 duplicate), 259427 (848), 259521 (843), 259522 (837), 259528 (841), 259531 (835), 259533 (835 duplicate), 259539 (832), 259540 (844), 259550 (600), 259552 (820).

The following iron results were qualified with a "U" flag in the database because of CCB contamination:

SHP01 Surface Water - 259424 (546), 259524 (887), 259527 (939), 259532 (939 duplicate), 259537 (893), 259541 (888), 259544 (898), 259547 (940), 259548 (941), 259555 (555), 259559 (553), 259562 (equipment blank), 259568 (896), 259573 (894), 259574 (655), 259577 (658), 259579 (657).

SHP01 Ground Water - 259563 (626), 259570 (856), 259571 (856 duplicate), 259572 (734).

SHP02 Surface Water - 259523 (884), 259534 (935), 259538 (934), 259552 (820), 259575 (425), 259578 (426), 259581 (662), and 259582 (662 duplicate).

SHP02 Ground Water - 259422 (604), 259425 (847), 259426 (847 duplicate), 259427 (848), 259553 (863).

Potassium result 259654 (equipment blank) was qualified with a "U" flag in the database because of CCB contamination.

The following arsenic results were qualified with a "J" flag in the database because the spike recovery did not meet criteria:

SHP01 Surface Water - 259641 (897), 259657 (548).

SHP01 Ground Water - 259656 (733).

SHP02 Surface Water - 259647 (885), 259659 (889), 259660 (886).

SHP02 Ground Water - 259642 (731), 259643 (603), 259644 (727), 259645 (726), 259646 (725), 259648 (830), 259649 (824), 259650 (827), 259651 (826), 259652 (819), 259653 (828), 259654 (equipment blank), 259655 (602), 259658 (813).

The following potassium results were qualified with a "J" flag because the serial dilution did not meet criteria:

SHP01 Surface Water - 259424 (546), 259524 (887), 259527 (939), 259532 (939 duplicate).

SHP01 Ground Water - 259423 (732).

SHP02 Surface Water - 259523 (884), 259526 (942).

SHP02 Ground Water - 259661 (812), 259662 (728), 259663 (814), 259664 (816), 259665 (839), 259666 (815), 259667 (730), 259422 (604), 259425 (847), 259426 (847 duplicate), 259427 (848), 259520 (836), 259521 (843), 259522 (837), 259525 (846), 259528 (841), 259529 (838), 259530 (833), 259531(835), 259533 (835 duplicate).

INORGANIC ANALYSES

Chloride, nitrate, and sulfate were determined by ion chromatography (IC), and ammonium was determined by spectrophotometry (or colorimetry). TDS was determined gravimetrically, and total Kjeldahl nitrogen (TKN) was determined by EPA method 351.3.

TKN results (SHP01) 259525 (846), 259531 (835), and 259533 (835 duplicate) were qualified with a "U" flag in the database because of prep blank contamination.

Sulfate result 259654 (equipment blank) was qualified with a "U" flag in the database because of CCB contamination.

The following nitrate results were qualified with a "U" flag in the database because of CCB contamination:

SHP01 Surface Water - 259577 (658), 259579 (657)

SHP01 Ground Water - 25 259542 (850) 9546 (equipment blank), 259556 (612), 259557 (853), 259558 (857), 259570 (856), 259571 (856 duplicate), 259654 (equipment blank), 259656 (733).

SHP02 Ground Water - 259521 (843)

The following ammonium results were qualified with a "U" flag in the database because of CCB contamination:

SHP01 Surface Water - 259547 (940), 259548 (941), 259565 (895), 259583 (equipment blank), 259654 (equipment blank), 259657 (548).

SHP01 Ground Water - 259556 (612), 259562 (equipment blank), 259566 (736), 259569 (855), 259580 (630).

SHP02 Surface Water - 259581 (662), 259582 (662 duplicate), 259659 (889).

SHP02 Ground Water - 259533 (835 duplicate), 259546 (equipment blank).

VOLATILE ORGANIC ANALYSES

The determination of target compound list (TCL) volatile organic compounds were conducted using gas chromatography-mass spectrometry (GC-MS). No tentatively identified compounds were detected.

All acetone and dichlorodifluoromethane results were qualified with a "R" flag (unusable) because calibration relative response factor did not meet criteria.

FIELD ANALYSIS/ACTIVITIES

There were no wells with a measured pH greater than 9 during this sampling event; therefore "G" flags indicating potential grout contamination were not required. Because low-flow purging was not used during this sampling event, "F" flags were not required. Results from the following wells were qualified with an "L" flag in the database indicating that less than three casing volumes were removed prior to sampling: 600, 604, 610, 730, 812, 814, 819, 820, 824, 827, 839, 852, and 863.

Four equipment blanks were collected for the 88 locations where samples were collected using non-dedicated equipment. The equipment blanks were analyzed for the same constituents as the Shiprock environmental samples. With the exception of two low concentrations of nitrate (1.29 and 1.19 mg/L), equipment blank concentrations of UMTRA related contaminants were less than the contract required detection limit (CRDL) or MDA/3-sigma; therefore, equipment blank results are considered acceptable.

Five duplicate samples were collected during this event. Duplicate samples were collected at wells 835, 847, and 856 and surface water locations 662 and 939. There are no established regulatory criteria for the evaluation of field duplicate samples; therefore, EPA guidance for laboratory duplicates (which is conservative for field duplicates) was used to assess duplicate precision. With the exception of one iron result (92 relative percent difference), duplicate results met the laboratory duplicate criteria (20 relative percent difference); duplicate results are considered acceptable.

One trip blank was collected and analyzed during this event, and all analyte concentrations were below detection.

SAR


Because of technical constraints, a suspected anomalies report (SAR) could not be generated for the Shiprock site and is not included in this data package. **Instead, historical data were reviewed as part of the evaluation of suspected anomalous data.** Data from this sampling event were compared to historical minimum and maximum values. Results that were greater than 150 percent of the historical maximum value or less than 50 percent of the historical minimum value (excluding results with less than 5 historical data points) are listed on the Anomalous Data Review Checksheet. Ammonium results from wells 600 and 608 were two orders of magnitude below the historical minimum value. The laboratory conducted a preliminary reanalysis of these samples and determined the original results were erroneous. Therefore, all ammonium results were qualified with an "R" flag (unusable) in the database, and reanalysis of all ammonium results from this sampling event will be conducted. This data validation package is considered final, and the results of the ammonium reanalysis will be validated when the analytical report is issued. The remaining results listed on the Anomalous Data Review checksheet will be compared to results of the next sampling round to make a final determination of validity.

Selected results from the March 1999 Shiprock sampling round were listed on the Anomalous Data Review Checksheet, which was included in the March 1999 data validation package. The disposition of the results was to compare to the next sampling round to make a final determination of validity. The potentially anomalous March 1999 results were reviewed in conjunction with the results from this round and were found acceptable. All results listed on the checksheet in the March data validation package are now considered valid and final, with no additional follow up required.

SUMMARY


All analytical quality control criteria were met except as qualified on the Ground Water Quality Data by Parameter, Surface Water Quality by Parameter, or equipment blank/trip blank database printouts. The meaning of data qualifiers is as defined on the UMTRA database printout or as defined in the USEPA Contract Laboratory Program Statement of Work for Inorganic Analysis, Multi-Media Multi-Concentration, Document Number ILMO2.0, 1991. All data in this package are considered validated and may be treated as final results.

A disk copy of the ground water, surface water, and equipment blank database printouts with the qualifiers incorporated are included in this package.



Sam Campbell
Data Validation Lead

9-9-99
Date



Craig Goodknight
Project Lead

9-9-99
Date

DATA REVIEW CHECKSHEET

ANOMALOUS DATA REVIEW CHECKSHEET

SITE: Shiprock SAMPLING DATA: Ground water/surface water

REVIEWER(s): Sam Campbell Sam Campbell 8-27-99
NAME (print) SIGNATURE DATE

SITE HYDROLOGIST: Mark Kautsky Mark Kautsky 9-8-99
NAME (print) SIGNATURE DATE

DATE OF REVIEW: 8-27-99

LOC. NO.	ANALYTE	TYPE OF ANOMALY	DISPOSITION
546	Cl	All time low	Compare to next sampling round
	Mg		
	Na		
	Sr		
	SO ₄		
	TDS		
548	Cl		
	Mg		
	Na		
	Sr		
	SO ₄		
655	Cl		
	Mg		
	NO ₂		
	Na		
	SO ₄		
658	NO ₃		
662	NO ₃		
728	NH ₄		Reanalysis of samples
730	NH ₄		
608	NH ₄		
600	NH ₄		

Note: All NH₄ results are anomalous; samples will be reanalyzed. 8c 4-2-99

WATER QUALITY DATA

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Alkalinity as CaCO3	mg/L	0608	06/03/1999	0001	KM	D	914			#	-	-
	mg/L	0608	06/03/1999	N001	KM	D	919			#	-	-
	mg/L	0610	06/04/1999	0001	AL	D	590	L		#	-	-
	mg/L	0610	06/04/1999	N001	AL	D	650	L		#	-	-
	mg/L	0612	06/04/1999	0001	AL	D	422			#	-	-
	mg/L	0612	06/04/1999	N001	AL	D	421			#	-	-
	mg/L	0616	06/05/1999	0001	AL	D	244			#	-	-
	mg/L	0616	06/05/1999	N001	AL	D	247			#	-	-
	mg/L	0617	06/05/1999	0001	AL	D	362			#	-	-
	mg/L	0617	06/05/1999	N001	AL	D	362			#	-	-
	mg/L	0620	06/06/1999	0001	AL	D	1011			#	-	-
	mg/L	0620	06/06/1999	N001	AL	D	998			#	-	-
	mg/L	0626	06/05/1999	0001	AL	D	422			#	-	-
	mg/L	0626	06/05/1999	N001	AL	D	417			#	-	-
	mg/L	0628	06/05/1999	0001	AL	D	124			#	-	-
	mg/L	0628	06/05/1999	N001	AL	D	128			#	-	-
	mg/L	0630	06/06/1999	0001	AL	D	175			#	-	-
	mg/L	0630	06/06/1999	N001	AL	D	174			#	-	-
	mg/L	0732	06/02/1999	0001	AL	N	187			#	-	-
	mg/L	0732	06/02/1999	N001	AL	N	191			#	-	-
	mg/L	0733	06/07/1999	0001	AL	N	446			#	-	-
	mg/L	0733	06/07/1999	N001	AL	N	448			#	-	-
	mg/L	0734	06/06/1999	0001	AL	N	651			#	-	-
	mg/L	0734	06/06/1999	N001	AL	N	652			#	-	-
	mg/L	0735	06/03/1999	0001	AL	N	442			#	-	-
	mg/L	0735	06/03/1999	N001	AL	N	451			#	-	-
	mg/L	0736	06/05/1999	0001	AL	N	612			#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Alkalinity as CaCO3	mg/L	0736	06/05/1999	N001	AL	N	596			#	-	-
	mg/L	0850	06/06/1999	0001	AL	N	323			#	-	-
	mg/L	0850	06/06/1999	N001	AL	N	321			#	-	-
	mg/L	0851	06/06/1999	0001	AL	N	312			#	-	-
	mg/L	0851	06/06/1999	N001	AL	N	319			#	-	-
	mg/L	0852	06/06/1999	0001	AL	N	298		L	#	-	-
	mg/L	0852	06/06/1999	N001	AL	N	305		L	#	-	-
	mg/L	0853	06/04/1999	0001	AL	N	277			#	-	-
	mg/L	0853	06/04/1999	N001	AL	N	278			#	-	-
	mg/L	0854	06/05/1999	0001	AL	N	1075			#	-	-
	mg/L	0854	06/05/1999	N001	AL	N	1086			#	-	-
	mg/L	0855	06/06/1999	0001	AL	N	333			#	-	-
	mg/L	0855	06/06/1999	N001	AL	N	340			#	-	-
	mg/L	0856	06/06/1999	0001	AL	N	312			#	-	-
	mg/L	0856	06/06/1999	N001	AL	N	344			#	-	-
	mg/L	0857	06/05/1999	0001	AL	N	363			#	-	-
	mg/L	0857	06/05/1999	N001	AL	N	366			#	-	-
	Ammonia as NH4	mg/L	0608	06/03/1999	0001	KM	D	1.380		R	#	-
mg/L		0610	06/04/1999	0001	AL	D	97.600		RL	#	-	-
mg/L		0612	06/04/1999	0001	AL	D	0.0246	B	RU	#	-	-
mg/L		0616	06/05/1999	0001	AL	D	6.700		R	#	-	-
mg/L		0617	06/05/1999	0001	AL	D	58.000		R	#	-	-
mg/L		0620	06/06/1999	0001	AL	D	0.0195	B	R	#	-	-
mg/L		0626	06/05/1999	0001	AL	D	0.0547	B	R	#	-	-
mg/L		0628	06/05/1999	0001	AL	D	0.0282	B	R	#	-	-
mg/L		0630	06/06/1999	0001	AL	D	0.0124	B	RU	#	-	-
mg/L		0732	06/02/1999	0001	AL	N	0.482		R	#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Ammonia as NH4	mg/L	0733	06/07/1999	0001	AL	N	0.218		R	#	-	-
	mg/L	0734	06/08/1999	0001	AL	N	0.0405	B	R	#	-	-
	mg/L	0735	06/03/1999	0001	AL	N	15.800		R	#	-	-
	mg/L	0736	06/05/1999	0001	AL	N	0.0246	B	RU	#	-	-
	mg/L	0850	06/08/1999	0001	AL	N	0.0670	B	R	#	-	-
	mg/L	0851	06/08/1999	0001	AL	N	0.131		R	#	-	-
	mg/L	0852	06/06/1999	0001	AL	N	0.0162	B	RL	#	-	-
	mg/L	0853	06/04/1999	0001	AL	N	34.000		R	#	-	-
	mg/L	0854	06/05/1999	0001	AL	N	26.400		R	#	-	-
	mg/L	0855	06/08/1999	0001	AL	N	0.0175	B	RU	#	-	-
	mg/L	0856	06/08/1999	0001	AL	N	0.0494	B	R	#	-	-
	mg/L	0856	06/06/1999	0002	AL	N	0.0510	B	R	#	-	-
	mg/L	0857	06/05/1999	0001	AL	N	24.400		R	#	-	-
	mg/L	0863	06/04/1999	0001	KM	N	17.000		RL	#	-	-
	Antimony	mg/L	0608	06/03/1999	0001	KM	D	0.00083	B	U	#	-
mg/L		0610	06/04/1999	0001	AL	D	0.0018	B	UL	#	-	-
mg/L		0612	06/04/1999	0001	AL	D	0.0019	B	U	#	-	-
mg/L		0616	06/05/1999	0001	AL	D	0.0016	B	U	#	-	-
mg/L		0617	06/05/1999	0001	AL	D	0.0013	B	U	#	-	-
mg/L		0620	06/06/1999	0001	AL	D	0.0017	B	U	#	-	-
mg/L		0626	06/05/1999	0001	AL	D	0.0016	B	U	#	-	-
mg/L		0628	06/05/1999	0001	AL	D	0.0015	B	U	#	-	-
mg/L		0630	06/06/1999	0001	AL	D	0.0022	B	U	#	-	-
mg/L		0732	06/02/1999	0001	AL	N	0.0017	B	U	#	-	-
mg/L		0733	06/07/1999	0001	AL	N	0.00031	B	U	#	-	-
mg/L		0734	06/06/1999	0001	AL	N	0.0016	B	U	#	-	-
mg/L		0735	06/03/1999	0001	AL	N	0.00069	B	U	#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY	
			DATE	ID				LAB	DATA	QA			
Antimony	mg/L	0736	06/05/1999	0001	AL	N	0.0022	B	U	#	-	-	
	mg/L	0850	06/06/1999	0001	AL	N	0.00030	U		#	0.0003	-	
	mg/L	0851	06/06/1999	0001	AL	N	0.00030	U		#	0.0003	-	
	mg/L	0852	06/06/1999	0001	AL	N	0.00037	B	UL	#	-	-	
	mg/L	0853	06/04/1999	0001	AL	N	0.0012	B	U	#	-	-	
	mg/L	0854	06/05/1999	0001	AL	N	0.0015	B	U	#	-	-	
	mg/L	0855	06/06/1999	0001	AL	N	0.0019	B	U	#	-	-	
	mg/L	0856	06/06/1999	0001	AL	N	0.0013	B	U	#	-	-	
	mg/L	0856	06/06/1999	0002	AL	N	0.0012	B	U	#	-	-	
	mg/L	0857	06/05/1999	0001	AL	N	0.0012	B	U	#	-	-	
	mg/L	0863	06/04/1999	0001	KM	N	0.0024	B	UL	#	-	-	
	Arsenic	mg/L	0608	06/03/1999	0001	KM	D	0.0010	U		#	0.001	-
		mg/L	0610	06/04/1999	0001	AL	D	0.0010	U	L	#	0.001	-
mg/L		0612	06/04/1999	0001	AL	D	0.0010	U		#	0.001	-	
mg/L		0616	06/05/1999	0001	AL	D	0.0010	U		#	0.001	-	
mg/L		0617	06/05/1999	0001	AL	D	0.0010	U		#	0.001	-	
mg/L		0620	06/06/1999	0001	AL	D	0.0010	U		#	0.001	-	
mg/L		0626	06/05/1999	0001	AL	D	0.0010	U		#	0.001	-	
mg/L		0628	06/05/1999	0001	AL	D	0.0010	U		#	0.001	-	
mg/L		0630	06/06/1999	0001	AL	D	0.0010	U		#	0.001	-	
mg/L		0732	06/02/1999	0001	AL	N	0.0010	U		#	0.001	-	
mg/L		0733	06/07/1999	0001	AL	N	0.0040	BN	J	#	-	-	
mg/L		0734	06/06/1999	0001	AL	N	0.0010	U		#	0.001	-	
mg/L		0735	06/03/1999	0001	AL	N	0.0010	U		#	0.001	-	
mg/L		0736	06/05/1999	0001	AL	N	0.0010	U		#	0.001	-	
mg/L		0850	06/06/1999	0001	AL	N	0.0010	U		#	0.001	-	
mg/L		0851	06/06/1999	0001	AL	N	0.0012	B		#	-	-	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Arsenic	mg/L	0852	06/06/1999	0001	AL	N	0.0010	U	L	#	0.001	-
	mg/L	0853	06/04/1999	0001	AL	N	0.0010	U		#	0.001	-
	mg/L	0854	06/05/1999	0001	AL	N	0.0010	U		#	0.001	-
	mg/L	0855	06/06/1999	0001	AL	N	0.0010	U		#	0.001	-
	mg/L	0856	06/06/1999	0001	AL	N	0.0010	U		#	0.001	-
	mg/L	0856	06/06/1999	0002	AL	N	0.0010	U		#	0.001	-
	mg/L	0857	06/05/1999	0001	AL	N	0.0010	U		#	0.001	-
	mg/L	0883	06/04/1999	0001	KM	N	0.0036	B	L	#	-	-
Cadmium	mg/L	0608	06/03/1999	0001	KM	D	0.00073	B		#	-	-
	mg/L	0610	06/04/1999	0001	AL	D	0.00030	U	L	#	0.0003	-
	mg/L	0612	06/04/1999	0001	AL	D	0.00030	U		#	0.0003	-
	mg/L	0616	06/05/1999	0001	AL	D	0.00030	U		#	0.0003	-
	mg/L	0617	06/05/1999	0001	AL	D	0.00030	U		#	0.0003	-
	mg/L	0620	06/06/1999	0001	AL	D	0.00030	U		#	0.0003	-
	mg/L	0626	06/05/1999	0001	AL	D	0.00030	U		#	0.0003	-
	mg/L	0628	06/05/1999	0001	AL	D	0.00030	U		#	0.0003	-
	mg/L	0630	06/06/1999	0001	AL	D	0.00030	U		#	0.0003	-
	mg/L	0732	06/02/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0733	06/07/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0734	06/06/1999	0001	AL	N	0.00030	B		#	-	-
	mg/L	0735	06/03/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0736	06/05/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0850	06/06/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0851	06/06/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0852	06/06/1999	0001	AL	N	0.00030	U	L	#	0.0003	-
	mg/L	0853	06/04/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0854	06/05/1999	0001	AL	N	0.00030	U		#	0.0003	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Cadmium	mg/L	0855	06/06/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0856	06/06/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0856	06/06/1999	0002	AL	N	0.00030	U		#	0.0003	-
	mg/L	0857	06/05/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0863	06/04/1999	0001	KM	N	0.00030	U	L	#	0.0003	-
Calcium	mg/L	0608	06/03/1999	0001	KM	D	435.000			#	-	-
	mg/L	0610	06/04/1999	0001	AL	D	463.000		L	#	-	-
	mg/L	0612	06/04/1999	0001	AL	D	137.000			#	-	-
	mg/L	0616	06/05/1999	0001	AL	D	422.000			#	-	-
	mg/L	0617	06/05/1999	0001	AL	D	468.000			#	-	-
	mg/L	0620	06/06/1999	0001	AL	D	342.000			#	-	-
	mg/L	0626	06/05/1999	0001	AL	D	257.000			#	-	-
	mg/L	0628	06/05/1999	0001	AL	D	220.000			#	-	-
	mg/L	0630	06/06/1999	0001	AL	D	194.000			#	-	-
	mg/L	0732	06/02/1999	0001	AL	N	57.000			#	-	-
	mg/L	0733	06/07/1999	0001	AL	N	351.000			#	-	-
	mg/L	0734	06/06/1999	0001	AL	N	391.000			#	-	-
	mg/L	0735	06/03/1999	0001	AL	N	289.000			#	-	-
	mg/L	0736	06/05/1999	0001	AL	N	448.000			#	-	-
	mg/L	0850	06/06/1999	0001	AL	N	137.000			#	-	-
	mg/L	0851	06/06/1999	0001	AL	N	180.000			#	-	-
	mg/L	0852	06/06/1999	0001	AL	N	167.000		L	#	-	-
	mg/L	0853	06/04/1999	0001	AL	N	420.000			#	-	-
	mg/L	0854	06/05/1999	0001	AL	N	417.000			#	-	-
	mg/L	0855	06/06/1999	0001	AL	N	317.000			#	-	-
mg/L	0856	06/06/1999	0001	AL	N	294.000			#	-	-	
mg/L	0856	06/06/1999	0002	AL	N	305.000			#	-	-	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Calcium	mg/L	0657	06/05/1999	0001	AL	N	446.000	#		
	mg/L	0663	06/04/1999	0001	KM	N	39.500	L #		
Chloride	mg/L	0608	06/03/1999	0001	KM	D	317.000	#	-	-
	mg/L	0610	06/04/1999	0001	AL	D	385.000	L #	-	-
	mg/L	0612	06/04/1999	0001	AL	D	37.800	#	-	-
	mg/L	0616	06/05/1999	0001	AL	D	59.700	#	-	-
	mg/L	0617	06/05/1999	0001	AL	D	154.000	#	-	-
	mg/L	0620	06/06/1999	0001	AL	D	403.000	#	-	-
	mg/L	0626	06/05/1999	0001	AL	D	88.800	#	-	-
	mg/L	0628	06/05/1999	0001	AL	D	67.400	#	-	-
	mg/L	0630	06/06/1999	0001	AL	D	81.700	#	-	-
	mg/L	0732	06/02/1999	0001	AL	N	21.300	#	-	-
	mg/L	0733	06/07/1999	0001	AL	N	119.000	#	-	-
	mg/L	0734	06/06/1999	0001	AL	N	274.000	#	-	-
	mg/L	0735	06/03/1999	0001	AL	N	257.000	#	-	-
	mg/L	0736	06/05/1999	0001	AL	N	242.000	#	-	-
	mg/L	0850	06/06/1999	0001	AL	N	54.800	#	-	-
	mg/L	0851	06/06/1999	0001	AL	N	59.800	#	-	-
	mg/L	0852	06/06/1999	0001	AL	N	63.000	L #	-	-
	mg/L	0853	06/04/1999	0001	AL	N	43.200	#	-	-
	mg/L	0854	06/05/1999	0001	AL	N	1240.000	#	-	-
	mg/L	0855	06/06/1999	0001	AL	N	119.000	#	-	-
	mg/L	0856	06/06/1999	0001	AL	N	97.000	#	-	-
	mg/L	0856	06/06/1999	0002	AL	N	98.300	#	-	-
	mg/L	0857	06/05/1999	0001	AL	N	105.000	#	-	-
mg/L	0863	06/04/1999	0001	KM	N	1620.000	L #	-	-	
Gross Alpha	pCi/L	0608	06/03/1999	0001	KM	D	1754	#	168	± 246.

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Gross Alpha	pCi/L	0610	06/04/1999	0001	AL	D	1236	L #	172	± 213.
	pCi/L	0612	06/04/1999	0001	AL	D	58.27	#	15.04	± 14.6
	pCi/L	0616	06/05/1999	0001	AL	D	217.82	#	34.49	± 40.5
	pCi/L	0617	06/05/1999	0001	AL	D	359.56	#	70.8	± 76.4
	pCi/L	0620	06/06/1999	0001	AL	D	566.4	J #	74.7	± 118.
	pCi/L	0626	06/05/1999	0001	AL	D	53.77	#	42.95	± 30.1
	pCi/L	0628	06/05/1999	0001	AL	D	31.88	U #	31.88	± 16.6
	pCi/L	0630	06/06/1999	0001	AL	D	57.99	J #	20.09	± 20.8
	pCi/L	0732	06/02/1999	0001	AL	N	5.16	J #	4.51	± 3.38
	pCi/L	0733	06/07/1999	0001	AL	N	40.22	U #	40.22	± 21.2
	pCi/L	0734	06/06/1999	0001	AL	N	87.24	J #	60.2	± 48.6
	pCi/L	0735	06/03/1999	0001	AL	N	88.70	U #	88.7	± 53.6
	pCi/L	0736	06/05/1999	0001	AL	N	201.71	#	122.52	± 91.7
	pCi/L	0850	06/06/1999	0001	AL	N	22.27	U #	22.27	± 12.5
	pCi/L	0851	06/06/1999	0001	AL	N	22.81	U #	22.81	± 11.8
	pCi/L	0852	06/06/1999	0001	AL	N	23.98	U L #	23.98	± 14.4
	pCi/L	0853	06/04/1999	0001	AL	N	174.45	#	30.82	± 34.8
	pCi/L	0854	06/05/1999	0001	AL	N	2223	#	339	± 406.
	pCi/L	0855	06/06/1999	0001	AL	N	74.49	J #	31.88	± 30.3
	pCi/L	0856	06/06/1999	0001	AL	N	78.76	J #	27.55	± 28.4
pCi/L	0856	06/06/1999	0002	AL	N	85.08	J #	27.54	± 29.3	
pCi/L	0857	06/05/1999	0001	AL	N	199.37	#	45.03	± 46.1	
Gross Beta	pCi/L	0608	06/03/1999	0001	KM	D	575.43	#	168.51	± 123.
	pCi/L	0610	06/04/1999	0001	AL	D	562.28	L #	164.88	± 121.
	pCi/L	0612	06/04/1999	0001	AL	D	35.83	#	13.02	± 9.23
	pCi/L	0616	06/05/1999	0001	AL	D	116.41	#	32.77	± 24.3
	pCi/L	0617	06/05/1999	0001	AL	D	169.96	#	65.16	± 45.6

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Gross Beta	pCi/L	0620	06/06/1999	0001	AL	D	246.6			#	96.1	± 66.1
	pCi/L	0626	06/05/1999	0001	AL	D	41.62	U		#	41.62	± 24.5
	pCi/L	0628	06/05/1999	0001	AL	D	30.84	U		#	30.84	± 17.9
	pCi/L	0630	06/06/1999	0001	AL	D	25.19			#	23.57	± 14.7
	pCi/L	0732	06/02/1999	0001	AL	N	5.79	U		#	5.79	± 3.48
	pCi/L	0733	06/07/1999	0001	AL	N	40.85	U		#	40.85	± 23.6
	pCi/L	0734	06/06/1999	0001	AL	N	77.43	U		#	77.43	± 46.6
	pCi/L	0735	06/03/1999	0001	AL	N	88.21	U		#	88.21	± 52.4
	pCi/L	0736	06/05/1999	0001	AL	N	124.42	U		#	124.42	± 76.9
	pCi/L	0850	06/06/1999	0001	AL	N	20.73	U		#	20.73	± 12.2
	pCi/L	0851	06/06/1999	0001	AL	N	20.76	U		#	20.76	± 12.0
	pCi/L	0852	06/06/1999	0001	AL	N	21.00	U	L	#	21	± 12.4
	pCi/L	0853	06/04/1999	0001	AL	N	52.04			#	32.15	± 21.0
	pCi/L	0854	06/05/1999	0001	AL	N	823.64			#	327.74	± 227.
	pCi/L	0855	06/06/1999	0001	AL	N	47.09			#	39.02	± 24.5
	pCi/L	0856	06/06/1999	0001	AL	N	68.95			#	31.48	± 21.2
	pCi/L	0856	06/06/1999	0002	AL	N	64.08			#	31.52	± 21.0
	pCi/L	0857	06/05/1999	0001	AL	N	95.28			#	42.94	± 29.3
Iron	mg/L	0608	06/03/1999	0001	KM	D	0.0059	U		#	0.0059	-
	mg/L	0610	06/04/1999	0001	AL	D	0.0059	U	L	#	0.0059	-
	mg/L	0612	06/04/1999	0001	AL	D	0.0936			#	-	-
	mg/L	0616	06/05/1999	0001	AL	D	0.0059	U		#	0.0059	-
	mg/L	0617	06/05/1999	0001	AL	D	0.0059	U		#	0.0059	-
	mg/L	0620	06/06/1999	0001	AL	D	0.0059	U		#	0.0059	-
	mg/L	0626	06/05/1999	0001	AL	D	0.0081	B	U	#	-	-
	mg/L	0628	06/05/1999	0001	AL	D	0.146			#	-	-
	mg/L	0630	06/06/1999	0001	AL	D	0.0059	U		#	0.0059	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Iron	mg/L	0732	06/02/1999	0001	AL	N	0.0059	U		#	0.0059	-
	mg/L	0733	06/07/1999	0001	AL	N	4.620			#	-	-
	mg/L	0734	06/06/1999	0001	AL	N	0.0100	B	U	#	-	-
	mg/L	0735	06/03/1999	0001	AL	N	-0.0059	U		#	0.0059	-
	mg/L	0736	06/05/1999	0001	AL	N	0.0059	U		#	0.0059	-
	mg/L	0850	06/06/1999	0001	AL	N	0.358			#	-	-
	mg/L	0851	06/06/1999	0001	AL	N	0.583			#	-	-
	mg/L	0852	06/06/1999	0001	AL	N	0.131		L	#	-	-
	mg/L	0853	06/04/1999	0001	AL	N	1.850			#	-	-
	mg/L	0854	06/05/1999	0001	AL	N	0.0059	U		#	0.0059	-
	mg/L	0855	06/06/1999	0001	AL	N	0.0059	U		#	0.0059	-
	mg/L	0856	06/06/1999	0001	AL	N	0.0449		U	#	-	-
	mg/L	0856	06/06/1999	0002	AL	N	0.0477		U	#	-	-
	mg/L	0857	06/05/1999	0001	AL	N	2.370			#	-	-
	mg/L	0863	06/04/1999	0001	KM	N	0.0416		UL	#	-	-
	Magnesium	mg/L	0608	06/03/1999	0001	KM	D	1790.000			#	-
mg/L		0610	06/04/1999	0001	AL	D	1670.000		L	#	-	-
mg/L		0612	06/04/1999	0001	AL	D	82.100			#	-	-
mg/L		0616	06/05/1999	0001	AL	D	219.000			#	-	-
mg/L		0617	06/05/1999	0001	AL	D	593.000			#	-	-
mg/L		0620	06/06/1999	0001	AL	D	1000.000			#	-	-
mg/L		0626	06/05/1999	0001	AL	D	75.800			#	-	-
mg/L		0628	06/05/1999	0001	AL	D	39.400			#	-	-
mg/L		0630	06/06/1999	0001	AL	D	92.100			#	-	-
mg/L		0732	06/02/1999	0001	AL	N	40.700			#	-	-
mg/L		0733	06/07/1999	0001	AL	N	233.000			#	-	-
mg/L		0734	06/06/1999	0001	AL	N	572.000			#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS:		DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA QA		
Magnesium	mg/L	0735	06/03/1999	0001	AL	N	563.000		#	-	-
	mg/L	0736	06/05/1999	0001	AL	N	583.000		#	-	-
	mg/L	0850	06/06/1999	0001	AL	N	25.600		#	-	-
	mg/L	0851	06/06/1999	0001	AL	N	33.300		#	-	-
	mg/L	0852	06/06/1999	0001	AL	N	28.700	L	#	-	-
	mg/L	0853	06/04/1999	0001	AL	N	170.000		#	-	-
	mg/L	0854	06/05/1999	0001	AL	N	3150.000		#	-	-
	mg/L	0855	06/06/1999	0001	AL	N	121.000		#	-	-
	mg/L	0856	06/06/1999	0001	AL	N	110.000		#	-	-
	mg/L	0856	06/06/1999	0002	AL	N	114.000		#	-	-
	mg/L	0857	06/05/1999	0001	AL	N	263.000		#	-	-
	mg/L	0863	06/04/1999	0001	KM	N	12.600	L	#	-	-
	Manganese	mg/L	0606	06/03/1999	0001	KM	D	8.420		#	-
mg/L		0610	06/04/1999	0001	AL	D	3.500	L	#	-	-
mg/L		0612	06/04/1999	0001	AL	D	0.405		#	-	-
mg/L		0616	06/05/1999	0001	AL	D	0.840		#	-	-
mg/L		0617	06/05/1999	0001	AL	D	6.320		#	-	-
mg/L		0620	06/06/1999	0001	AL	D	1.970		#	-	-
mg/L		0626	06/05/1999	0001	AL	D	1.660		#	-	-
mg/L		0628	06/05/1999	0001	AL	D	2.000		#	-	-
mg/L		0630	06/06/1999	0001	AL	D	0.553		#	-	-
mg/L		0732	06/02/1999	0001	AL	N	0.0011	B	#	-	-
mg/L		0733	06/07/1999	0001	AL	N	3.360		#	-	-
mg/L		0734	06/06/1999	0001	AL	N	1.030		#	-	-
mg/L		0735	06/03/1999	0001	AL	N	2.530		#	-	-
mg/L		0736	06/05/1999	0001	AL	N	0.892		#	-	-
mg/L		0850	06/06/1999	0001	AL	N	1.560		#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Manganese	mg/L	0851	08/06/1999	0001	AL	N	0.982	#	-	-
		0852	08/06/1999	0001	AL	N	0.720	L #	-	-
	mg/L	0853	08/04/1999	0001	AL	N	2.410	#	-	-
	mg/L	0854	08/05/1999	0001	AL	N	12.100	#	-	-
	mg/L	0855	08/06/1999	0001	AL	N	2.180	#	-	-
	mg/L	0856	08/06/1999	0001	AL	N	1.380	#	-	-
	mg/L	0856	08/06/1999	0002	AL	N	1.430	#	-	-
	mg/L	0857	08/05/1999	0001	AL	N	4.400	#	-	-
	mg/L	0863	08/04/1999	0001	KM	N	0.225	L #	-	-
Nitrate	mg/L	0608	06/03/1999	0001	KM	D	2500.000	#	-	-
	mg/L	0610	06/04/1999	0001	AL	D	3100.000	L #	-	-
	mg/L	0612	06/04/1999	0001	AL	D	0.0119	B U #	-	-
	mg/L	0616	06/05/1999	0001	AL	D	46.900	#	-	-
	mg/L	0617	06/05/1999	0001	AL	D	738.000	#	-	-
	mg/L	0620	06/06/1999	0001	AL	D	160.000	#	-	-
	mg/L	0626	06/05/1999	0001	AL	D	1.460	#	-	-
	mg/L	0628	06/05/1999	0001	AL	D	0.0100	U #	0.01	-
	mg/L	0630	06/06/1999	0001	AL	D	18.700	#	-	-
	mg/L	0732	06/02/1999	0001	AL	N	57.900	#	-	-
	mg/L	0733	06/07/1999	0001	AL	N	0.0144	B U #	-	-
	mg/L	0734	06/06/1999	0001	AL	N	175.000	#	-	-
	mg/L	0735	06/03/1999	0001	AL	N	1720.000	#	-	-
	mg/L	0736	06/05/1999	0001	AL	N	0.580	B #	-	-
	mg/L	0850	06/06/1999	0001	AL	N	0.0204	B U #	-	-
	mg/L	0851	06/06/1999	0001	AL	N	0.0100	U #	0.01	-
	mg/L	0852	06/06/1999	0001	AL	N	0.434	B L #	-	-
	mg/L	0853	06/04/1999	0001	AL	N	0.0232	B U #	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Nitrate	mg/L	0854	06/05/1999	0001	AL	N	2030.000			#	-	-
	mg/L	0855	06/06/1999	0001	AL	N	10.800			#	-	-
	mg/L	0856	06/06/1999	0001	AL	N	0.0114	B	U	#	-	-
	mg/L	0856	06/06/1999	0002	AL	N	0.0123	B	U	#	-	-
	mg/L	0857	06/05/1999	0001	AL	N	0.0247	B	U	#	-	-
	mg/L	0863	06/04/1999	0001	KM	N	0.426	B	L	#	-	-
pH	s.u.	0608	06/03/1999	N001	KM	D	7.03			#		
	s.u.	0610	06/04/1999	N001	AL	D	6.99		L	#	-	-
	s.u.	0612	06/04/1999	N001	AL	D	7.32			#	-	-
	s.u.	0616	06/05/1999	N001	AL	D	7.09			#	-	-
	s.u.	0617	06/05/1999	N001	AL	D	6.91			#	-	-
	s.u.	0620	06/06/1999	N001	AL	D	6.85			#	-	-
	s.u.	0626	06/05/1999	N001	AL	D	7.24			#	-	-
	s.u.	0628	06/05/1999	N001	AL	D	7.57			#	-	-
	s.u.	0630	06/06/1999	N001	AL	D	8.21			#	-	-
	s.u.	0732	06/02/1999	N001	AL	N	7.57			#	-	-
	s.u.	0733	06/07/1999	N001	AL	N	6.94			#	-	-
	s.u.	0734	06/06/1999	N001	AL	N	7.08			#	-	-
	s.u.	0735	06/03/1999	N001	AL	N	6.98			#	-	-
	s.u.	0736	06/05/1999	N001	AL	N	7.48			#	-	-
	s.u.	0850	06/06/1999	N001	AL	N	7.21			#	-	-
	s.u.	0851	06/06/1999	N001	AL	N	7.24			#	-	-
	s.u.	0852	06/06/1999	N001	AL	N	7.30		L	#	-	-
	s.u.	0853	06/04/1999	N001	AL	N	7.14			#	-	-
	s.u.	0854	06/05/1999	N001	AL	N	6.98			#	-	-
	s.u.	0855	06/06/1999	N001	AL	N	7.35			#	-	-
s.u.	0856	06/06/1999	N001	AL	N	7.38			#	-	-	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
pH	s.u.	0857	06/05/1999	N001	AL	N	7.09	#	-	-
	s.u.	0863	06/04/1999	N001	KM	N	7.59	L #	-	-
Polonium-210	pCi/L	0608	06/03/1999	0001	KM	D	0.21	U #	0.21	± 0.21
	pCi/L	0610	06/04/1999	0001	AL	D	0.20	U L #	0.2	± -0.16
	pCi/L	0612	06/04/1999	0001	AL	D	0.45	U #	0.45	± -0.38
	pCi/L	0616	06/05/1999	0001	AL	D	0.26	U #	0.26	± -0.22
	pCi/L	0617	06/05/1999	0001	AL	D	0.25	U #	0.25	± 0.23
	pCi/L	0620	06/06/1999	0001	AL	D	0.18	U #	0.18	± 0.23
	pCi/L	0626	06/05/1999	0001	AL	D	1.83	#	0.22	± 0.68
	pCi/L	0628	06/05/1999	0001	AL	D	0.28	U #	0.28	± 0.28
	pCi/L	0630	06/06/1999	0001	AL	D	0.25	U #	0.25	± 0.26
	pCi/L	0732	06/02/1999	0001	AL	N	0.14	U #	0.14	± 0.15
	pCi/L	0733	06/07/1999	0001	AL	N	0.18	U #	0.18	± 0.19
	pCi/L	0734	06/06/1999	0001	AL	N	0	U #	0.19	± 0.17
	pCi/L	0735	06/03/1999	0001	AL	N	0.13	U #	0.13	± 0.15
	pCi/L	0736	06/05/1999	0001	AL	N	0.26	U #	0.26	± 0.28
	pCi/L	0850	06/06/1999	0001	AL	N	0.18	U #	0.18	± 0.18
	pCi/L	0851	06/06/1999	0001	AL	N	0.35	U #	0.35	± -0.32
	pCi/L	0852	06/06/1999	0001	AL	N	0.23	U L #	0.23	± 0.25
	pCi/L	0853	06/04/1999	0001	AL	N	0.14	U #	0.14	± -0.12
	pCi/L	0854	06/05/1999	0001	AL	N	0.26	U #	0.26	± 0.27
	pCi/L	0855	06/06/1999	0001	AL	N	0.23	U #	0.23	± 0.25
pCi/L	0856	06/06/1999	0001	AL	N	0.14	U #	0.14	± -0.10	
pCi/L	0856	06/06/1999	0002	AL	N	0.18	U #	0.18	± 0.16	
pCi/L	0857	06/05/1999	0001	AL	N	0.37	U #	0.37	± -0.30	
Potassium	mg/L	0608	06/03/1999	0001	KM	D	187.000	#	-	-
	mg/L	0610	06/04/1999	0001	AL	D	133.000	E L #	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Potassium	mg/L	0612	06/04/1999	0001	AL	D	10.200	E		#	-	-
	mg/L	0616	06/05/1999	0001	AL	D	34.500	E		#	-	-
	mg/L	0617	06/05/1999	0001	AL	D	58.200	E		#	-	-
	mg/L	0620	06/06/1999	0001	AL	D	49.400			#	-	-
	mg/L	0626	06/05/1999	0001	AL	D	16.400	E		#	-	-
	mg/L	0628	06/05/1999	0001	AL	D	13.500	E		#	-	-
	mg/L	0630	06/06/1999	0001	AL	D	10.000			#	-	-
	mg/L	0732	06/02/1999	0001	AL	N	3.390	E	J	#	-	-
	mg/L	0733	06/07/1999	0001	AL	N	5.660			#	-	-
	mg/L	0734	06/06/1999	0001	AL	N	21.200	E		#	-	-
	mg/L	0735	06/03/1999	0001	AL	N	29.700			#	-	-
	mg/L	0736	06/05/1999	0001	AL	N	38.500	E		#	-	-
	mg/L	0850	06/06/1999	0001	AL	N	4.590			#	-	-
	mg/L	0851	06/06/1999	0001	AL	N	4.400			#	-	-
	mg/L	0852	06/06/1999	0001	AL	N	4.480		L	#	-	-
	mg/L	0853	06/04/1999	0001	AL	N	27.900	E		#	-	-
	mg/L	0854	06/05/1999	0001	AL	N	120.000	E		#	-	-
	mg/L	0855	06/06/1999	0001	AL	N	13.500	E		#	-	-
	mg/L	0856	06/06/1999	0001	AL	N	17.900	E		#	-	-
	mg/L	0856	06/06/1999	0002	AL	N	18.400	E		#	-	-
	mg/L	0857	06/05/1999	0001	AL	N	24.800	E		#	-	-
	mg/L	0863	06/04/1999	0001	KM	N	52.300		L	#	-	-
	Radium-226	pCi/L	0608	06/03/1999	0001	KM	D	0.16	U		#	0.16
pCi/L		0610	06/04/1999	0001	AL	D	0.16	U	L	#	0.16	± 0.09
pCi/L		0612	06/04/1999	0001	AL	D	0.14	U		#	0.14	± 0.08
pCi/L		0616	06/05/1999	0001	AL	D	0.13	U		#	0.13	± 0.07
pCi/L		0617	06/05/1999	0001	AL	D	0.16	U		#	0.16	± 0.08

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Radium-226	pCi/L	0620	06/06/1999	0001	AL	D	0.14	U	#		0.14	± 0.08
	pCi/L	0626	06/05/1999	0001	AL	D	0.15	U	#		0.15	± 0.08
	pCi/L	0628	06/05/1999	0001	AL	D	0.15	U	#		0.15	± 0.08
	pCi/L	0630	06/06/1999	0001	AL	D	0.12	U	#		0.12	± 0.06
	pCi/L	0732	06/02/1999	0001	AL	N	0.13	U	#		0.13	± 0.07
	pCi/L	0733	06/07/1999	0001	AL	N	0.13	U	#		0.13	± 0.07
	pCi/L	0734	06/06/1999	0001	AL	N	0.13	U	#		0.13	± 0.08
	pCi/L	0735	06/03/1999	0001	AL	N	0.14	U	#		0.14	± 0.08
	pCi/L	0736	06/05/1999	0001	AL	N	0.13	U	#		0.13	± 0.07
	pCi/L	0850	06/06/1999	0001	AL	N	0.13	U	#		0.13	± 0.08
	pCi/L	0851	06/06/1999	0001	AL	N	0.13	U	#		0.13	± 0.08
	pCi/L	0852	06/06/1999	0001	AL	N	0.13	U	L	#	0.13	± 0.08
	pCi/L	0853	06/04/1999	0001	AL	N	0.14	U	#		0.14	± 0.08
	pCi/L	0854	06/05/1999	0001	AL	N	0.16	U	#		0.16	± 0.08
	pCi/L	0855	06/06/1999	0001	AL	N	0.13	U	#		0.13	± 0.07
	pCi/L	0856	06/06/1999	0001	AL	N	0.14	U	#		0.14	± 0.08
	pCi/L	0856	06/06/1999	0002	AL	N	0.13	U	#		0.13	± 0.07
	pCi/L	0857	06/05/1999	0001	AL	N	0.15	U	#		0.15	± 0.08
Radium-228	pCi/L	0608	06/03/1999	0001	KM	D	1.15	U	#		0.82	± 0.51
	pCi/L	0610	06/04/1999	0001	AL	D	0.85	U	L	#	0.85	± 0.52
	pCi/L	0612	06/04/1999	0001	AL	D	0.81	U	#		0.81	± 0.48
	pCi/L	0616	06/05/1999	0001	AL	D	0.75	U	#		0.75	± 0.45
	pCi/L	0617	06/05/1999	0001	AL	D	1.01	U	#		0.83	± 0.51
	pCi/L	0620	06/06/1999	0001	AL	D	0.79	U	#		0.75	± 0.46
	pCi/L	0626	06/05/1999	0001	AL	D	1.01	U	#		0.79	± 0.49
	pCi/L	0628	06/05/1999	0001	AL	D	0.84	U	#		0.83	± 0.51
	pCi/L	0630	06/06/1999	0001	AL	D	0.70	U	#		0.7	± 0.42

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Radium-228	pCi/L	0732	06/02/1999	0001	AL	N	0.78	U		#	0.78	± 0.45
	pCi/L	0733	06/07/1999	0001	AL	N	0.70		J	#	0.69	± 0.42
	pCi/L	0734	06/06/1999	0001	AL	N	0.72	U		#	0.72	± 0.43
	pCi/L	0735	06/03/1999	0001	AL	N	0.76	U		#	0.76	± 0.46
	pCi/L	0736	06/05/1999	0001	AL	N	0.77	U		#	0.77	± 0.46
	pCi/L	0850	06/06/1999	0001	AL	N	0.77	U		#	0.77	± 0.46
	pCi/L	0851	06/06/1999	0001	AL	N	0.76	U		#	0.76	± 0.45
	pCi/L	0852	06/06/1999	0001	AL	N	0.79	U	L	#	0.79	± 0.47
	pCi/L	0853	06/04/1999	0001	AL	N	0.80	U		#	0.8	± 0.48
	pCi/L	0854	06/05/1999	0001	AL	N	1.06		U	#	0.83	± 0.51
	pCi/L	0855	06/06/1999	0001	AL	N	0.74	U		#	0.74	± 0.45
	pCi/L	0856	06/06/1999	0001	AL	N	0.76	U		#	0.76	± 0.46
	pCi/L	0856	06/06/1999	0002	AL	N	0.85			#	0.7	± 0.43
	pCi/L	0857	06/05/1999	0001	AL	N	0.81	U		#	0.81	± 0.48
Redox Potential	mV	0608	06/03/1999	N001	KM	D	173			#	-	-
	mV	0610	06/04/1999	N001	AL	D	162		L	#	-	-
	mV	0612	06/04/1999	N001	AL	D	-185			#	-	-
	mV	0616	06/05/1999	N001	AL	D	64			#	-	-
	mV	0617	06/05/1999	N001	AL	D	94			#	-	-
	mV	0620	06/06/1999	N001	AL	D	154			#	-	-
	mV	0626	06/05/1999	N001	AL	D	112			#	-	-
	mV	0628	06/05/1999	N001	AL	D	-40			#	-	-
	mV	0630	06/06/1999	N001	AL	D	137			#	-	-
	mV	0732	06/02/1999	N001	AL	N	164			#	-	-
	mV	0733	06/07/1999	N001	AL	N	-33			#	-	-
	mV	0734	06/06/1999	N001	AL	N	162			#	-	-
	mV	0735	06/03/1999	N001	AL	N	144			#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Redox Potential	mV	0736	06/05/1999	N001	AL	N	121	#	-	-
	mV	0850	06/06/1999	N001	AL	N	-15	#	-	-
	mV	0851	06/06/1999	N001	AL	N	-54	#	-	-
	mV	0852	06/06/1999	N001	AL	N	-32	L #	-	-
	mV	0853	06/04/1999	N001	AL	N	-40	#	-	-
	mV	0854	06/05/1999	N001	AL	N	165	#	-	-
	mV	0855	06/06/1999	N001	AL	N	148	#	-	-
	mV	0856	06/06/1999	N001	AL	N	94	#	-	-
	mV	0857	06/05/1999	N001	AL	N	-53	#	-	-
	mV	0863	06/04/1999	N001	KM	N	83	L #	-	-
Selenium	mg/L	0808	06/03/1999	0001	KM	D	0.0081	#	-	-
	mg/L	0810	06/04/1999	0001	AL	D	0.0296	L #	-	-
	mg/L	0812	06/04/1999	0001	AL	D	0.0116	#	-	-
	mg/L	0816	06/05/1999	0001	AL	D	0.0780	#	-	-
	mg/L	0817	06/05/1999	0001	AL	D	0.0950	#	-	-
	mg/L	0820	06/06/1999	0001	AL	D	0.247	#	-	-
	mg/L	0826	06/05/1999	0001	AL	D	0.0128	#	-	-
	mg/L	0828	06/05/1999	0001	AL	D	0.0050	#	-	-
	mg/L	0630	06/06/1999	0001	AL	D	0.0802	#	-	-
	mg/L	0732	06/02/1999	0001	AL	N	0.0042	B #	-	-
	mg/L	0733	06/07/1999	0001	AL	N	0.0010	U #	0.001	-
	mg/L	0734	06/06/1999	0001	AL	N	0.151	#	-	-
	mg/L	0735	06/03/1999	0001	AL	N	0.130	#	-	-
	mg/L	0736	06/05/1999	0001	AL	N	0.0020	B #	-	-
	mg/L	0850	06/06/1999	0001	AL	N	0.0010	U #	0.001	-
	mg/L	0851	06/06/1999	0001	AL	N	0.0010	U #	0.001	-
	mg/L	0852	06/06/1999	0001	AL	N	0.0010	U L #	0.001	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Selenium	mg/L	0853	06/04/1999	0001	AL	N	0.0010	U #	0.001	-
	mg/L	0854	06/05/1999	0001	AL	N	0.0046	B #	-	-
	mg/L	0855	06/06/1999	0001	AL	N	0.122	#	-	-
	mg/L	0856	06/06/1999	0001	AL	N	0.0010	U #	0.001	-
	mg/L	0856	06/06/1999	0002	AL	N	0.0010	U #	0.001	-
	mg/L	0857	06/05/1999	0001	AL	N	0.0010	U #	0.001	-
	mg/L	0863	06/04/1999	0001	KM	N	0.0010	U L #	0.001	-
Sodium	mg/L	0608	06/03/1999	0001	KM	D	1870.000	#	-	-
	mg/L	0610	06/04/1999	0001	AL	D	2150.000	L #	-	-
	mg/L	0612	06/04/1999	0001	AL	D	245.000	#	-	-
	mg/L	0616	06/05/1999	0001	AL	D	336.000	#	-	-
	mg/L	0617	06/05/1999	0001	AL	D	631.000	#	-	-
	mg/L	0620	06/06/1999	0001	AL	D	2030.000	#	-	-
	mg/L	0626	06/05/1999	0001	AL	D	1100.000	#	-	-
	mg/L	0628	06/05/1999	0001	AL	D	933.000	#	-	-
	mg/L	0630	06/06/1999	0001	AL	D	940.000	#	-	-
	mg/L	0732	06/02/1999	0001	AL	N	137.000	#	-	-
	mg/L	0733	06/07/1999	0001	AL	N	499.000	#	-	-
	mg/L	0734	06/06/1999	0001	AL	N	1840.000	#	-	-
	mg/L	0735	06/03/1999	0001	AL	N	1530.000	#	-	-
	mg/L	0736	06/05/1999	0001	AL	N	2700.000	#	-	-
	mg/L	0850	06/06/1999	0001	AL	N	528.000	#	-	-
	mg/L	0851	06/06/1999	0001	AL	N	489.000	#	-	-
	mg/L	0852	06/06/1999	0001	AL	N	579.000	L #	-	-
	mg/L	0853	06/04/1999	0001	AL	N	250.000	#	-	-
	mg/L	0854	06/05/1999	0001	AL	N	5700.000	#	-	-
	mg/L	0855	06/06/1999	0001	AL	N	1260.000	#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Sodium	mg/L	0856	06/06/1999	0001	AL	N	1140.000	#	-	-
	mg/L	0856	06/06/1999	0002	AL	N	1140.000	#	-	-
	mg/L	0857	06/05/1999	0001	AL	N	583.000	#	-	-
	mg/L	0863	06/04/1999	0001	KM	N	1470.000	L #	-	-
Specific Conductance	umhos/cm	0608	06/03/1999	N001	KM	D	17730	#	-	-
	umhos/cm	0610	06/04/1999	N001	AL	D	26700	L #	-	-
	umhos/cm	0612	06/04/1999	N001	AL	D	2080	#	-	-
	umhos/cm	0616	06/05/1999	N001	AL	D	4170	#	-	-
	umhos/cm	0617	06/05/1999	N001	AL	D	8230	#	-	-
	umhos/cm	0620	06/06/1999	N001	AL	D	12460	#	-	-
	umhos/cm	0626	06/05/1999	N001	AL	D	5700	#	-	-
	umhos/cm	0628	06/05/1999	N001	AL	D	4730	#	-	-
	umhos/cm	0630	06/06/1999	N001	AL	D	5010	#	-	-
	umhos/cm	0732	06/02/1999	N001	AL	N	1277	#	-	-
	umhos/cm	0733	06/07/1999	N001	AL	N	4570	#	-	-
	umhos/cm	0734	06/06/1999	N001	AL	N	10840	#	-	-
	umhos/cm	0735	06/03/1999	N001	AL	N	9840	#	-	-
	umhos/cm	0736	06/05/1999	N001	AL	N	13020	#	-	-
	umhos/cm	0850	06/06/1999	N001	AL	N	3000	#	-	-
	umhos/cm	0851	06/06/1999	N001	AL	N	3130	#	-	-
	umhos/cm	0852	06/06/1999	N001	AL	N	3350	L #	-	-
	umhos/cm	0853	06/04/1999	N001	AL	N	3500	#	-	-
	umhos/cm	0854	06/05/1999	N001	AL	N	25100	#	-	-
	umhos/cm	0855	06/06/1999	N001	AL	N	6800	#	-	-
	umhos/cm	0856	06/06/1999	N001	AL	N	6200	#	-	-
	umhos/cm	0857	06/05/1999	N001	AL	N	4670	#	-	-
	umhos/cm	0863	06/04/1999	N001	KM	N	3000	L #	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Strontium	mg/L	0608	06/03/1999	0001	KM	D	10.800	#	-	-
	mg/L	0610	06/04/1999	0001	AL	D	10.800	L #	-	-
	mg/L	0612	06/04/1999	0001	AL	D	1.540	#	-	-
	mg/L	0616	06/05/1999	0001	AL	D	4.180	#	-	-
	mg/L	0617	06/05/1999	0001	AL	D	5.970	#	-	-
	mg/L	0620	06/06/1999	0001	AL	D	8.760	#	-	-
	mg/L	0626	06/05/1999	0001	AL	D	8.560	#	-	-
	mg/L	0628	06/05/1999	0001	AL	D	8.420	#	-	-
	mg/L	0630	06/06/1999	0001	AL	D	8.910	#	-	-
	mg/L	0732	06/02/1999	0001	AL	N	0.797	#	-	-
	mg/L	0733	06/07/1999	0001	AL	N	4.750	#	-	-
	mg/L	0734	06/06/1999	0001	AL	N	8.700	#	-	-
	mg/L	0735	06/03/1999	0001	AL	N	6.230	#	-	-
	mg/L	0736	06/05/1999	0001	AL	N	7.590	#	-	-
	mg/L	0850	06/06/1999	0001	AL	N	1.780	#	-	-
	mg/L	0851	06/06/1999	0001	AL	N	2.610	#	-	-
	mg/L	0852	06/06/1999	0001	AL	N	1.850	L #	-	-
	mg/L	0853	06/04/1999	0001	AL	N	4.000	#	-	-
	mg/L	0854	06/05/1999	0001	AL	N	15.400	#	-	-
	mg/L	0855	06/06/1999	0001	AL	N	10.100	#	-	-
	mg/L	0856	06/06/1999	0001	AL	N	3.920	#	-	-
	mg/L	0856	06/06/1999	0002	AL	N	4.020	#	-	-
	mg/L	0857	06/05/1999	0001	AL	N	4.860	#	-	-
mg/L	0863	06/04/1999	0001	KM	N	1.680	L #	-	-	
Sulfate	mg/L	0608	06/03/1999	0001	KM	D	10100.000	#	-	-
	mg/L	0610	06/04/1999	0001	AL	D	13800.000	L #	-	-
	mg/L	0612	06/04/1999	0001	AL	D	757.000	#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:		DETECTION LIMIT	UN-CERTAINTY	
			DATE	ID				LAB	DATA QA			
Sulfate	mg/L	0616	06/05/1999	0001	AL	D	2470.000		#	-	-	
	mg/L	0617	06/05/1999	0001	AL	D	4660.000		#	-	-	
	mg/L	0620	06/06/1999	0001	AL	D	8200.000		#	-	-	
	mg/L	0628	06/05/1999	0001	AL	D	2900.000		#	-	-	
	mg/L	0628	06/05/1999	0001	AL	D	2290.000		#	-	-	
	mg/L	0630	06/06/1999	0001	AL	D	2670.000		#	-	-	
	mg/L	0732	06/02/1999	0001	AL	N	380.000		#	-	-	
	mg/L	0733	06/07/1999	0001	AL	N	2350.000		#	-	-	
	mg/L	0734	06/08/1999	0001	AL	N	6570.000		#	-	-	
	mg/L	0735	06/03/1999	0001	AL	N	4380.000		#	-	-	
	mg/L	0736	06/05/1999	0001	AL	N	8720.000		#	-	-	
	mg/L	0850	06/06/1999	0001	AL	N	1140.000		#	-	-	
	mg/L	0851	06/06/1999	0001	AL	N	1250.000		#	-	-	
	mg/L	0852	06/06/1999	0001	AL	N	1420.000		L	#	-	-
	mg/L	0853	06/04/1999	0001	AL	N	1980.000		#	-	-	
	mg/L	0854	06/05/1999	0001	AL	N	22200.000		#	-	-	
	mg/L	0855	06/06/1999	0001	AL	N	3830.000		#	-	-	
	mg/L	0856	06/06/1999	0001	AL	N	3440.000		#	-	-	
	mg/L	0856	06/06/1999	0002	AL	N	3470.000		#	-	-	
	mg/L	0857	06/05/1999	0001	AL	N	3260.000		#	-	-	
mg/L	0863	06/04/1999	0001	KM	N	1130.000		L	#	-	-	
Temperature	C	0608	06/03/1999	N001	KM	D	16.6		#	-	-	
	C	0610	06/04/1999	N001	AL	D	17.6		L	#	-	-
	C	0612	06/04/1999	N001	AL	D	18.1		#	-	-	
	C	0616	06/05/1999	N001	AL	D	15.6		#	-	-	
	C	0617	06/05/1999	N001	AL	D	16.5		#	-	-	
	C	0620	06/06/1999	N001	AL	D	12.6		#	-	-	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Temperature	C	0626	06/05/1999	N001	AL	D	12.7	#	-	-
	C	0628	06/05/1999	N001	AL	D	11.9	#	-	-
	C	0630	06/06/1999	N001	AL	D	13.7	#	-	-
	C	0732	06/02/1999	N001	AL	N	12.7	#	-	-
	C	0733	06/07/1999	N001	AL	N	15.5	#	-	-
	C	0734	06/06/1999	N001	AL	N	13.2	#	-	-
	C	0735	06/03/1999	N001	AL	N	10.8	#	-	-
	C	0736	06/05/1999	N001	AL	N	16.2	#	-	-
	C	0850	06/06/1999	N001	AL	N	16.6	#	-	-
	C	0851	06/06/1999	N001	AL	N	15.8	#	-	-
	C	0852	06/06/1999	N001	AL	N	17.7	L #	-	-
	C	0853	06/04/1999	N001	AL	N	16.7	#	-	-
	C	0854	06/05/1999	N001	AL	N	16.0	#	-	-
	C	0855	06/06/1999	N001	AL	N	10.8	#	-	-
	C	0856	06/06/1999	N001	AL	N	11.4	#	-	-
	C	0857	06/05/1999	N001	AL	N	13.5	#	-	-
C	0863	06/04/1999	N001	KM	N	18.3	L #	-	-	
Total Dissolved Solids	mg/L	0608	06/03/1999	0001	KM	D	18300	#	-	-
	mg/L	0610	06/04/1999	0001	AL	D	18700	L #	-	-
	mg/L	0612	06/04/1999	0001	AL	D	1610	#	-	-
	mg/L	0616	06/05/1999	0001	AL	D	3990	#	-	-
	mg/L	0617	06/05/1999	0001	AL	D	8170	#	-	-
	mg/L	0620	06/06/1999	0001	AL	D	14000	#	-	-
	mg/L	0626	06/05/1999	0001	AL	D	4610	#	-	-
	mg/L	0628	06/05/1999	0001	AL	D	3710	#	-	-
	mg/L	0630	06/06/1999	0001	AL	D	4190	#	-	-
	mg/L	0732	06/02/1999	0001	AL	N	818	#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Total Dissolved Solids	mg/L	0733	06/07/1999	0001	AL	N	4630	#	-	-
	mg/L	0734	06/06/1999	0001	AL	N	11500	#	-	-
	mg/L	0735	06/03/1999	0001	AL	N	9510	#	-	-
	mg/L	0736	06/05/1999	0001	AL	N	14000	#	-	-
	mg/L	0850	06/06/1999	0001	AL	N	2210	#	-	-
	mg/L	0851	06/06/1999	0001	AL	N	2380	#	-	-
	mg/L	0852	06/06/1999	0001	AL	N	2550	L #	-	-
	mg/L	0853	06/04/1999	0001	AL	N	3120	#	-	-
	mg/L	0854	06/05/1999	0001	AL	N	40800	#	-	-
	mg/L	0855	06/06/1999	0001	AL	N	5940	#	-	-
	mg/L	0856	06/06/1999	0001	AL	N	5410	#	-	-
	mg/L	0856	06/06/1999	0002	AL	N	5380	#	-	-
	mg/L	0857	06/05/1999	0001	AL	N	5320	#	-	-
	mg/L	0863	06/04/1999	0001	KM	N	4020	L #	-	-
Turbidity	NTU	0608	06/03/1999	N001	KM	D	9.87	#	-	-
	NTU	0610	06/04/1999	N001	AL	D	43.8	L #	-	-
	NTU	0612	06/04/1999	N001	AL	D	4.35	#	-	-
	NTU	0616	06/05/1999	N001	AL	D	7.89	#	-	-
	NTU	0617	06/05/1999	N001	AL	D	8.72	#	-	-
	NTU	0620	06/06/1999	N001	AL	D	3.83	#	-	-
	NTU	0626	06/05/1999	N001	AL	D	6.31	#	-	-
	NTU	0628	06/05/1999	N001	AL	D	4.93	#	-	-
	NTU	0630	06/06/1999	N001	AL	D	2.78	#	-	-
	NTU	0732	06/02/1999	N001	AL	N	4.20	#	-	-
	NTU	0733	06/07/1999	N001	AL	N	9.28	#	-	-
	NTU	0734	06/06/1999	N001	AL	N	5.05	#	-	-
	NTU	0735	06/03/1999	N001	AL	N	30.4	#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Turbidity	NTU	0736	06/05/1999	N001	AL	N	1.22	#	-	-
	NTU	0850	06/06/1999	N001	AL	N	7.86	#	-	-
	NTU	0851	06/06/1999	N001	AL	N	9.39	#	-	-
	NTU	0852	06/06/1999	N001	AL	N	36.4	L #	-	-
	NTU	0853	06/04/1999	N001	AL	N	1000	> #	-	-
	NTU	0854	06/05/1999	N001	AL	N	1000	> #	-	-
	NTU	0855	06/06/1999	N001	AL	N	8.48	#	-	-
	NTU	0856	06/06/1999	N001	AL	N	5.29	#	-	-
	NTU	0857	06/05/1999	N001	AL	N	43.8	#	-	-
	NTU	0863	06/04/1999	N001	KM	N	135	L #	-	-
Uranium	mg/L	0608	06/03/1999	0001	KM	D	1.970	#	-	-
	mg/L	0610	06/04/1999	0001	AL	D	1.700	L #	-	-
	mg/L	0612	06/04/1999	0001	AL	D	0.127	#	-	-
	mg/L	0616	06/05/1999	0001	AL	D	0.363	#	-	-
	mg/L	0617	06/05/1999	0001	AL	D	0.539	#	-	-
	mg/L	0620	06/06/1999	0001	AL	D	0.813	#	-	-
	mg/L	0626	06/05/1999	0001	AL	D	0.0878	#	-	-
	mg/L	0628	06/05/1999	0001	AL	D	0.0181	#	-	-
	mg/L	0630	06/06/1999	0001	AL	D	0.0920	#	-	-
	mg/L	0732	06/02/1999	0001	AL	N	0.0059	#	-	-
	mg/L	0733	06/07/1999	0001	AL	N	0.0173	#	-	-
	mg/L	0734	06/06/1999	0001	AL	N	0.111	#	-	-
	mg/L	0735	06/03/1999	0001	AL	N	0.125	#	-	-
	mg/L	0736	06/05/1999	0001	AL	N	0.425	#	-	-
	mg/L	0850	06/06/1999	0001	AL	N	0.0129	#	-	-
	mg/L	0851	06/06/1999	0001	AL	N	0.0155	#	-	-
	mg/L	0852	06/06/1999	0001	AL	N	0.0148	L #	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Uranium	mg/L	0853	06/04/1999	0001	AL	N	0.183	#	-	-
	mg/L	0854	06/05/1999	0001	AL	N	3.580	#	-	-
	mg/L	0855	06/06/1999	0001	AL	N	0.156	#	-	-
	mg/L	0856	06/06/1999	0001	AL	N	0.162	#	-	-
	mg/L	0856	06/06/1999	0002	AL	N	0.160	#	-	-
	mg/L	0857	06/05/1999	0001	AL	N	0.311	#	-	-
	mg/L	0863	06/04/1999	0001	KM	N	0.0285	L #	-	-
Vanadium	mg/L	0608	06/03/1999	0001	KM	D	0.00060	U #	0.0006	-
	mg/L	0610	06/04/1999	0001	AL	D	0.00060	U L #	0.0006	-
	mg/L	0612	06/04/1999	0001	AL	D	0.0012	B #	-	-
	mg/L	0616	06/05/1999	0001	AL	D	0.00060	U #	0.0006	-
	mg/L	0617	06/05/1999	0001	AL	D	0.00060	U #	0.0006	-
	mg/L	0620	06/06/1999	0001	AL	D	0.00060	U #	0.0006	-
	mg/L	0626	06/05/1999	0001	AL	D	0.00061	B #	-	-
	mg/L	0628	06/05/1999	0001	AL	D	0.00060	U #	0.0006	-
	mg/L	0630	06/06/1999	0001	AL	D	0.0070	B #	-	-
	mg/L	0732	06/02/1999	0001	AL	N	0.00060	U #	0.0006	-
	mg/L	0733	06/07/1999	0001	AL	N	0.00060	U #	0.0006	-
	mg/L	0734	06/06/1999	0001	AL	N	0.00060	U #	0.0006	-
	mg/L	0735	06/03/1999	0001	AL	N	0.00060	U #	0.0006	-
	mg/L	0736	06/05/1999	0001	AL	N	0.00060	U #	0.0006	-
	mg/L	0850	06/06/1999	0001	AL	N	0.0012	B #	-	-
	mg/L	0851	06/06/1999	0001	AL	N	0.00060	U #	0.0006	-
	mg/L	0852	06/06/1999	0001	AL	N	0.0011	B L #	-	-
	mg/L	0853	06/04/1999	0001	AL	N	0.00060	U #	0.0006	-
	mg/L	0854	06/05/1999	0001	AL	N	0.00060	U #	0.0006	-
	mg/L	0855	06/06/1999	0001	AL	N	0.00060	U #	0.0006	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:18 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Vanadium	mg/L	0856	06/06/1999	0001	AL	N	0.00060	U		#	0.0006	-
	mg/L	0856	06/06/1999	0002	AL	N	0.00060	U		#	0.0006	-
	mg/L	0857	06/05/1999	0001	AL	N	0.00060	U		#	0.0006	-
	mg/L	0863	06/04/1999	0001	KM	N	0.0017	B	L	#	-	-

RECORDS: SELECTED FROM USEE200 WHERE site_code='SHP01' AND quality_assurance = TRUE AND (NOT (data_validation_qualifiers LIKE "X") OR isNull(data_validation_qualifiers)) AND DATE_SAMPLED between #6/1/1999# and #6/30/1999#

SAMPLE ID CODES: 000X = Filtered sample (0.45 µm). N00X = Unfiltered sample. X = replicate number.

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
1,1,1,2-Tetrachloroethane	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
1,1,1-Trichloroethane	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
1,1,2,2-Tetrachloroethane	ug/L	0819	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0824	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0826	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0827	06/08/1999	N001	AL	N	10	U	L	#	10	-
	ug/L	0828	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0830	06/08/1999	N001	KM	N	10	U		#	10	-
1,1,2-Trichloroethane	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
1,1-Dichloroethane	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA			DETECTION LIMIT	UN-CERTAINTY
1,1-Dichloroethane	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
1,1-Dichloroethene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
1,1-Dichloropropene	ug/L	0819	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0824	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0826	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0827	06/08/1999	N001	AL	N	10	U	L	#	10	-
	ug/L	0828	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0830	06/08/1999	N001	KM	N	10	U		#	10	-
1,2,3-Trichloropropane	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
1,2,4-Trimethylbenzene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
1,2,4-Trimethylbenzene	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
1,2-Dibromo-3-chloropropan	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
1,2-Dibromoethane	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
1,2-Dichlorobenzene	ug/L	0819	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0824	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0826	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0827	06/08/1999	N001	AL	N	10	U	L	#	10	-
	ug/L	0828	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0830	06/08/1999	N001	KM	N	10	U		#	10	-
1,2-Dichloroethane	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL	RESULT	QUALIFIERS: LAB DATA QA			DETECTION LIMIT	UN-CERTAINTY
1,2-Dichloropropane	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
1,3,5-Trimethylbenzene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
1,3-Dichlorobenzene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
1,3-Dichloropropane	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
1,4-Dichlorobenzene	ug/L	0819	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0824	06/08/1999	N001	KM	N	10	U	L	#	10	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA			DETECTION LIMIT	UN-CERTAINTY
1,4-Dichlorobenzene	ug/L	0826	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0827	06/08/1999	N001	AL	N	10	U	L	#	10	-
	ug/L	0828	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0830	06/08/1999	N001	KM	N	10	U		#	10	-
2,2-Dichloropropane	ug/L	0819	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0824	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0826	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0827	06/08/1999	N001	AL	N	10	U	L	#	10	-
	ug/L	0828	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0830	06/08/1999	N001	KM	N	10	U		#	10	-
2-Butanone	ug/L	0819	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0824	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0826	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0827	06/08/1999	N001	AL	N	10	U	L	#	10	-
	ug/L	0828	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0830	06/08/1999	N001	KM	N	10	U		#	10	-
2-Chlorotoluene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
2-Hexanone	ug/L	0819	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0824	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0826	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0827	06/08/1999	N001	AL	N	10	U	L	#	10	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL	RESULT	QUALIFIERS: LAB DATA QA			DETECTION LIMIT	UN-CERTAINTY
2-Hexanone	ug/L	0828	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0830	06/08/1999	N001	KM	N	10	U		#	10	-
4-Chlorotoluene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
4-Methyl-2-Pentanone	ug/L	0819	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0824	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0826	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0827	06/08/1999	N001	AL	N	10	U	L	#	10	-
	ug/L	0828	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0830	06/08/1999	N001	KM	N	10	U		#	10	-
Acetone	ug/L	0819	06/08/1999	N001	KM	N	10	U	RL	#	10	-
	ug/L	0824	06/08/1999	N001	KM	N	10	U	RL	#	10	-
	ug/L	0826	06/08/1999	N001	AL	N	10	U	R	#	10	-
	ug/L	0827	06/08/1999	N001	AL	N	10	U	RL	#	10	-
	ug/L	0828	06/08/1999	N001	AL	N	10	U	R	#	10	-
	ug/L	0830	06/08/1999	N001	KM	N	10	U	R	#	10	-
Alkalinity as CaCO3	mg/L	0600	06/04/1999	0001	KM	O	1318		L	#	-	-
	mg/L	0600	06/04/1999	N001	KM	O	1328		L	#	-	-
	mg/L	0602	06/08/1999	0001	KM	O	2077			#	-	-
	mg/L	0602	06/08/1999	N001	KM	O	2033			#	-	-
	mg/L	0603	06/07/1999	0001	AL	N	268			#	-	-
	mg/L	0603	06/07/1999	N001	AL	N	269			#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Alkalinity as CaCO3	mg/L	0604	06/02/1999	0001	KM	N	747	L	#	-	-	
	mg/L	0604	06/02/1999	N001	KM	N	761	L	#	-	-	
	mg/L	0725	06/07/1999	0001	AL	N	321		#	-	-	
	mg/L	0725	06/07/1999	N001	AL	N	307		#	-	-	
	mg/L	0726	06/07/1999	0001	KM	N	456		#	-	-	
	mg/L	0726	06/07/1999	N001	KM	N	455		#	-	-	
	mg/L	0727	06/07/1999	0001	KM	N	1440		#	-	-	
	mg/L	0727	06/07/1999	N001	KM	N	1462		#	-	-	
	mg/L	0728	06/08/1999	0001	AL	N	213		#	-	-	
	mg/L	0728	06/08/1999	N001	AL	N	177		#	-	-	
	mg/L	0730	06/08/1999	0001	AL	N	18	L	#	-	-	
	mg/L	0730	06/08/1999	N001	AL	N	15	L	#	-	-	
	mg/L	0731	06/07/1999	0001	AL	N	367		#	-	-	
	mg/L	0731	06/07/1999	N001	AL	N	393		#	-	-	
	mg/L	0813	06/07/1999	0001	AL	N	977		#	-	-	
	mg/L	0813	06/07/1999	N001	AL	N	1009		#	-	-	
	mg/L	0814	06/08/1999	0001	AL	N	1049	L	#	-	-	
	mg/L	0814	06/08/1999	N001	AL	N	1000	L	#	-	-	
	mg/L	0815	06/08/1999	0001	AL	N	1364		#	-	-	
	mg/L	0815	06/08/1999	N001	AL	N	1493		#	-	-	
	mg/L	0816	06/08/1999	0001	AL	N	464		#	-	-	
	mg/L	0816	06/08/1999	N001	AL	N	490		#	-	-	
	mg/L	0824	06/08/1999	0001	KM	N	98	L	#	-	-	
	mg/L	0826	06/08/1999	0001	AL	N	1683		#	-	-	
	mg/L	0826	06/08/1999	N001	AL	N	1675		#	-	-	
	mg/L	0830	06/08/1999	0001	KM	N	11		#	-	-	
	mg/L	0830	06/08/1999	N001	KM	N	15		#	-	-	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY	
Alkalinity as CaCO3	mg/L	0832	08/05/1999	0001	AL	N	303	#	-	-	
	mg/L	0832	08/05/1999	N001	AL	N	335	#	-	-	
	mg/L	0833	08/04/1999	0001	AL	N	455	#	-	-	
	mg/L	0833	08/04/1999	N001	AL	N	489	#	-	-	
	mg/L	0835	08/04/1999	0001	AL	N	312	#	-	-	
	mg/L	0835	08/04/1999	N001	AL	N	327	#	-	-	
	mg/L	0836	08/03/1999	0001	AL	N	410	#	-	-	
	mg/L	0836	08/03/1999	N001	AL	N	420	#	-	-	
	mg/L	0837	08/03/1999	0001	AL	N	421	#	-	-	
	mg/L	0837	08/03/1999	N001	AL	N	454	#	-	-	
	mg/L	0838	08/04/1999	0001	AL	N	321	#	-	-	
	mg/L	0838	08/04/1999	N001	AL	N	343	#	-	-	
	mg/L	0839	08/08/1999	0001	AL	N	792	L #	-	-	
	mg/L	0839	08/08/1999	N001	AL	N	820	L #	-	-	
	mg/L	0841	08/04/1999	0001	AL	N	745	#	-	-	
	mg/L	0841	08/04/1999	N001	AL	N	795	#	-	-	
	mg/L	0843	08/03/1999	0001	AL	N	358	#	-	-	
	mg/L	0843	08/03/1999	N001	AL	N	375	#	-	-	
	mg/L	0844	08/05/1999	0001	AL	N	309	#	-	-	
	mg/L	0844	08/05/1999	N001	AL	N	329	#	-	-	
	mg/L	0846	08/04/1999	0001	AL	N	251	#	-	-	
	mg/L	0846	08/04/1999	N001	AL	N	280	#	-	-	
	mg/L	0847	08/03/1999	0001	AL	N	292	#	-	-	
	mg/L	0847	08/03/1999	N001	AL	N	296	#	-	-	
	mg/L	0848	08/03/1999	0001	AL	N	441	#	-	-	
	mg/L	0848	08/03/1999	N001	AL	N	439	#	-	-	
	Ammonia as NH4	mg/L	0600	06/04/1999	0001	KM	O	1.980	RL #	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia as NH4	mg/L	0602	06/08/1999	0001	KM	O	351.000	R #	-	-
	mg/L	0603	06/07/1999	0001	AL	N	1270.000	R #	-	-
	mg/L	0604	06/02/1999	0001	KM	N	0.131	RL #	-	-
	mg/L	0725	06/07/1999	0001	AL	N	0.0073	B R #	-	-
	mg/L	0726	06/07/1999	0001	KM	N	0.0287	B R #	-	-
	mg/L	0727	06/07/1999	0001	KM	N	8.370	R #	-	-
	mg/L	0728	06/08/1999	0001	AL	N	31.700	R #	-	-
	mg/L	0730	06/08/1999	0001	AL	N	8.420	RL #	-	-
	mg/L	0731	06/07/1999	0001	AL	N	49.200	R #	-	-
	mg/L	0812	06/08/1999	0001	AL	N	0.0234	B RL #	-	-
	mg/L	0813	06/07/1999	0001	AL	N	49.500	R #	-	-
	mg/L	0814	06/08/1999	0001	AL	N	56.500	RL #	-	-
	mg/L	0815	06/08/1999	0001	AL	N	0.0127	B R #	-	-
	mg/L	0816	06/08/1999	0001	AL	N	0.0251	B R #	-	-
	mg/L	0819	06/08/1999	0001	KM	N	330.000	RL #	-	-
	mg/L	0820	06/04/1999	0001	KM	N	2.950	RL #	-	-
	mg/L	0824	06/08/1999	0001	KM	N	46.000	RL #	-	-
	mg/L	0826	06/08/1999	0001	AL	N	77.500	R #	-	-
	mg/L	0827	06/08/1999	0001	AL	N	0.175	RL #	-	-
	mg/L	0828	06/08/1999	0001	AL	N	4.430	R #	-	-
	mg/L	0830	06/08/1999	0001	KM	N	14.400	R #	-	-
	mg/L	0832	06/05/1999	0001	AL	N	0.0238	B R #	-	-
	mg/L	0833	06/04/1999	0001	AL	N	0.0144	B R #	-	-
	mg/L	0835	06/04/1999	0001	AL	N	0.0068	B R #	-	-
	mg/L	0835	06/04/1999	0002	AL	N	0.0068	B RU #	-	-
	mg/L	0836	06/03/1999	0001	AL	N	0.0144	B R #	-	-
	mg/L	0837	06/03/1999	0001	AL	N	0.0087	B R #	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)

REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA			DETECTION LIMIT	UN-CERTAINTY
Ammonia as NH4	mg/L	0838	06/04/1999	0001	AL	N	0.0050	B	R	#	-	-
	mg/L	0839	06/08/1999	0001	AL	N	76.700		RL	#	-	-
	mg/L	0841	06/04/1999	0001	AL	N	0.0613	B	R	#	-	-
	mg/L	0843	06/03/1999	0001	AL	N	0.0144	B	R	#	-	-
	mg/L	0844	06/05/1999	0001	AL	N	0.0200	B	R	#	-	-
	mg/L	0846	06/04/1999	0001	AL	N	0.0162	B	R	#	-	-
	mg/L	0847	06/03/1999	0001	AL	N	0.161		R	#	-	-
	mg/L	0847	06/03/1999	0002	AL	N	0.117		R	#	-	-
	mg/L	0848	06/03/1999	0001	AL	N	1.500		R	#	-	-
Antimony	mg/L	0800	06/04/1999	0001	KM	O	0.00055	B	UL	#	-	-
	mg/L	0802	06/08/1999	0001	KM	O	0.00078	B	U	#	-	-
	mg/L	0803	06/07/1999	0001	AL	N	0.00053	B	U	#	-	-
	mg/L	0804	06/02/1999	0001	KM	N	0.0026	B	UL	#	-	-
	mg/L	0725	06/07/1999	0001	AL	N	0.00045	B	U	#	-	-
	mg/L	0726	06/07/1999	0001	KM	N	0.00056	B	U	#	-	-
	mg/L	0727	06/07/1999	0001	KM	N	0.00065	B	U	#	-	-
	mg/L	0728	06/08/1999	0001	AL	N	0.0014	B	U	#	-	-
	mg/L	0730	06/08/1999	0001	AL	N	0.00036	B	UL	#	-	-
	mg/L	0731	06/07/1999	0001	AL	N	0.0014	B	U	#	-	-
	mg/L	0812	06/08/1999	0001	AL	N	0.0013	B	UL	#	-	-
	mg/L	0813	06/07/1999	0001	AL	N	0.00045	B	U	#	-	-
	mg/L	0814	06/08/1999	0001	AL	N	0.00071	B	UL	#	-	-
	mg/L	0815	06/08/1999	0001	AL	N	0.00053	B	U	#	-	-
	mg/L	0816	06/08/1999	0001	AL	N	0.00060	B	U	#	-	-
	mg/L	0819	06/08/1999	0001	KM	N	0.0010	B	UL	#	-	-
	mg/L	0820	06/04/1999	0001	KM	N	0.0067		UL	#	-	-
	mg/L	0824	06/08/1999	0001	KM	N	0.0053		UL	#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL	RESULT	QUALIFIERS: LAB DATA QA			DETECTION LIMIT	UN-CERTAINTY
Antimony	mg/L	0826	08/08/1999	0001	AL	N	0.00060	B	U	#	-	-
	mg/L	0827	08/08/1999	0001	AL	N	0.00094	B	UL	#	-	-
	mg/L	0828	08/08/1999	0001	AL	N	0.00069	B	U	#	-	-
	mg/L	0830	08/08/1999	0001	KM	N	0.00051	B	U	#	-	-
	mg/L	0832	08/05/1999	0001	AL	N	0.00037	B	U	#	-	-
	mg/L	0833	08/04/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0835	08/04/1999	0001	AL	N	0.00036	B	U	#	-	-
	mg/L	0835	08/04/1999	0002	AL	N	0.00031	B	U	#	-	-
	mg/L	0836	08/03/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0837	08/03/1999	0001	AL	N	0.00032	B	U	#	-	-
	mg/L	0838	08/04/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0839	08/08/1999	0001	AL	N	0.00050	B	UL	#	-	-
	mg/L	0841	08/04/1999	0001	AL	N	0.00037	B	U	#	-	-
	mg/L	0843	08/03/1999	0001	AL	N	0.00043	B	U	#	-	-
	mg/L	0844	08/05/1999	0001	AL	N	0.00032	B	U	#	-	-
	mg/L	0846	08/04/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0847	08/03/1999	0001	AL	N	0.00041	B	U	#	-	-
	mg/L	0847	08/03/1999	0002	AL	N	0.00039	B	U	#	-	-
	mg/L	0848	08/03/1999	0001	AL	N	0.00057	B	U	#	-	-
	Arsenic	mg/L	0600	08/04/1999	0001	KM	O	0.0010	U	L	#	0.001
mg/L		0602	08/08/1999	0001	KM	O	0.0010	UN	J	#	0.001	-
mg/L		0603	06/07/1999	0001	AL	N	0.0010	UN	J	#	0.001	-
mg/L		0604	06/02/1999	0001	KM	N	0.0010	U	L	#	0.001	-
mg/L		0725	06/07/1999	0001	AL	N	0.0010	UN	J	#	0.001	-
mg/L		0726	06/07/1999	0001	KM	N	0.0010	UN	J	#	0.001	-
mg/L		0727	06/07/1999	0001	KM	N	0.0010	UN	J	#	0.001	-
mg/L		0728	06/08/1999	0001	AL	N	0.0010	UN		#	0.001	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL	RESULT	QUALIFIERS: LAB DATA QA			DETECTION LIMIT	UN-CERTAINTY
Arsenic	mg/L	0730	08/08/1999	0001	AL	N	0.0010	UN	L	#	0.001	-
	mg/L	0731	08/07/1999	0001	AL	N	0.0010	UN	J	#	0.001	-
	mg/L	0812	08/08/1999	0001	AL	N	0.0010	UN	L	#	0.001	-
	mg/L	0813	08/07/1999	0001	AL	N	0.0010	UN	J	#	0.001	-
	mg/L	0814	08/08/1999	0001	AL	N	0.0010	UN	L	#	0.001	-
	mg/L	0815	08/08/1999	0001	AL	N	0.0010	UN		#	0.001	-
	mg/L	0816	08/08/1999	0001	AL	N	0.0010	UN		#	0.001	-
	mg/L	0819	08/08/1999	0001	KM	N	0.0010	UN	JL	#	0.001	-
	mg/L	0820	08/04/1999	0001	KM	N	0.0010	U	L	#	0.001	-
	mg/L	0824	08/08/1999	0001	KM	N	0.0010	UN	JL	#	0.001	-
	mg/L	0826	08/08/1999	0001	AL	N	0.0010	UN	J	#	0.001	-
	mg/L	0827	08/08/1999	0001	AL	N	0.0010	UN	JL	#	0.001	-
	mg/L	0828	08/08/1999	0001	AL	N	0.0010	UN	J	#	0.001	-
	mg/L	0830	08/08/1999	0001	KM	N	0.0010	UN	J	#	0.001	-
	mg/L	0832	08/05/1999	0001	AL	N	0.0010	U		#	0.001	-
	mg/L	0833	08/04/1999	0001	AL	N	0.0010	U		#	0.001	-
	mg/L	0835	08/04/1999	0001	AL	N	0.0010	U		#	0.001	-
	mg/L	0835	08/04/1999	0002	AL	N	0.0010	U		#	0.001	-
	mg/L	0836	08/03/1999	0001	AL	N	0.0010	U		#	0.001	-
	mg/L	0837	08/03/1999	0001	AL	N	0.0010	U		#	0.001	-
	mg/L	0838	08/04/1999	0001	AL	N	0.0010	U		#	0.001	-
	mg/L	0839	08/08/1999	0001	AL	N	0.0010	UN	L	#	0.001	-
	mg/L	0841	08/04/1999	0001	AL	N	0.0010	U		#	0.001	-
	mg/L	0843	08/03/1999	0001	AL	N	0.0010	U		#	0.001	-
	mg/L	0844	08/05/1999	0001	AL	N	0.0010	U		#	0.001	-
	mg/L	0846	08/04/1999	0001	AL	N	0.0010	U		#	0.001	-
	mg/L	0847	08/03/1999	0001	AL	N	0.0010	U		#	0.001	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL	RESULT	QUALIFIERS: LAB DATA QA			DETECTION LIMIT	UN-CERTAINTY
Arsenic	mg/L	0847	08/03/1999	0002	AL	N	0.0010	U		#	0.001	-
	mg/L	0848	08/03/1999	0001	AL	N	0.0010	U		#	0.001	-
Benzene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
Bromobenzene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
Bromochloromethane	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
Bromodichloromethane	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Bromoform	ug/L	0819	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0824	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0828	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0827	06/08/1999	N001	AL	N	10	U	L	#	10	-
	ug/L	0828	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0830	06/08/1999	N001	KM	N	10	U		#	10	-
Bromomethane	ug/L	0819	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0824	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0828	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0827	06/08/1999	N001	AL	N	10	U	L	#	10	-
	ug/L	0828	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0830	06/08/1999	N001	KM	N	10	U		#	10	-
Cadmium	mg/L	0600	06/04/1999	0001	KM	O	0.00030	U	L	#	0.0003	-
	mg/L	0602	06/08/1999	0001	KM	O	0.00049	B		#	-	-
	mg/L	0603	06/07/1999	0001	AL	N	0.0185			#	-	-
	mg/L	0604	06/02/1999	0001	KM	N	0.0019		L	#	-	-
	mg/L	0725	06/07/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0726	06/07/1999	0001	KM	N	0.00030	U		#	0.0003	-
	mg/L	0727	06/07/1999	0001	KM	N	0.00047	B		#	-	-
	mg/L	0728	06/08/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0730	06/08/1999	0001	AL	N	0.0488		L	#	-	-
	mg/L	0731	06/07/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0812	06/08/1999	0001	AL	N	0.00033	B	L	#	-	-
	mg/L	0813	06/07/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0814	06/08/1999	0001	AL	N	0.00030	U	L	#	0.0003	-
	mg/L	0815	06/08/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0816	06/08/1999	0001	AL	N	0.00030	U		#	0.0003	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL	RESULT	QUALIFIERS: LAB DATA QA			DETECTION LIMIT	UN-CERTAINTY
Cadmium	mg/L	0819	06/08/1999	0001	KM	N	0.00030	U	L	#	0.0003	-
	mg/L	0820	06/04/1999	0001	KM	N	0.00049	B	L	#	-	-
	mg/L	0824	06/08/1999	0001	KM	N	0.00077	B	L	#	-	-
	mg/L	0826	06/08/1999	0001	AL	N	0.00030	B		#	-	-
	mg/L	0827	06/08/1999	0001	AL	N	0.00030	U	L	#	0.0003	-
	mg/L	0828	06/08/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0830	06/08/1999	0001	KM	N	0.0100			#	-	-
	mg/L	0832	06/05/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0833	06/04/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0835	06/04/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0835	06/04/1999	0002	AL	N	0.00030	U		#	0.0003	-
	mg/L	0836	06/03/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0837	06/03/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0838	06/04/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0839	06/08/1999	0001	AL	N	0.00030	U	L	#	0.0003	-
	mg/L	0841	06/04/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0843	06/03/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0844	06/05/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0846	06/04/1999	0001	AL	N	0.00030	U		#	0.0003	-
	mg/L	0847	06/03/1999	0001	AL	N	0.00030	U		#	0.0003	-
mg/L	0847	06/03/1999	0002	AL	N	0.00030	U		#	0.0003	-	
mg/L	0848	06/03/1999	0001	AL	N	0.00030	U		#	0.0003	-	
Calcium	mg/L	0600	06/04/1999	0001	KM	O	422.000		L	#	-	-
	mg/L	0602	06/08/1999	0001	KM	O	418.000			#	-	-
	mg/L	0603	06/07/1999	0001	AL	N	483.000			#	-	-
	mg/L	0604	06/02/1999	0001	KM	N	549.000		L	#	-	-
	mg/L	0725	06/07/1999	0001	AL	N	312.000			#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Calcium	mg/L	0726	06/07/1999	0001	KM	N	414.000	#	-	-
	mg/L	0727	06/07/1999	0001	KM	N	434.000	#	-	-
	mg/L	0728	06/08/1999	0001	AL	N	498.000	#	-	-
	mg/L	0730	06/08/1999	0001	AL	N	477.000	L #	-	-
	mg/L	0731	06/07/1999	0001	AL	N	490.000	#	-	-
	mg/L	0812	06/08/1999	0001	AL	N	447.000	L #	-	-
	mg/L	0813	06/07/1999	0001	AL	N	586.000	#	-	-
	mg/L	0814	06/08/1999	0001	AL	N	451.000	L #	-	-
	mg/L	0815	06/08/1999	0001	AL	N	431.000	#	-	-
	mg/L	0816	06/08/1999	0001	AL	N	459.000	#	-	-
	mg/L	0819	06/08/1999	0001	KM	N	430.000	L #	-	-
	mg/L	0820	06/04/1999	0001	KM	N	150.000	L #	-	-
	mg/L	0824	06/08/1999	0001	KM	N	359.000	L #	-	-
	mg/L	0826	06/08/1999	0001	AL	N	438.000	#	-	-
	mg/L	0827	06/08/1999	0001	AL	N	475.000	L #	-	-
	mg/L	0828	06/08/1999	0001	AL	N	295.000	#	-	-
	mg/L	0830	06/08/1999	0001	KM	N	516.000	#	-	-
	mg/L	0832	06/05/1999	0001	AL	N	414.000	#	-	-
	mg/L	0833	06/04/1999	0001	AL	N	587.000	#	-	-
	mg/L	0835	06/04/1999	0001	AL	N	394.000	#	-	-
	mg/L	0835	06/04/1999	0002	AL	N	393.000	#	-	-
	mg/L	0836	06/03/1999	0001	AL	N	541.000	#	-	-
	mg/L	0837	06/03/1999	0001	AL	N	470.000	#	-	-
	mg/L	0838	06/04/1999	0001	AL	N	526.000	#	-	-
	mg/L	0839	06/08/1999	0001	AL	N	446.000	L #	-	-
	mg/L	0841	06/04/1999	0001	AL	N	433.000	#	-	-
	mg/L	0843	06/03/1999	0001	AL	N	475.000	#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA			DETECTION LIMIT	UN-CERTAINTY
Calcium	mg/L	0844	06/05/1999	0001	AL	N	492.000			#	-	-
	mg/L	0846	06/04/1999	0001	AL	N	571.000			#	-	-
	mg/L	0847	06/03/1999	0001	AL	N	505.000			#	-	-
	mg/L	0847	06/03/1999	0002	AL	N	511.000			#	-	-
	mg/L	0848	06/03/1999	0001	AL	N	548.000			#	-	-
Carbon Disulfide	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
Carbon tetrachloride	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
Chloride	mg/L	0600	06/04/1999	0001	KM	O	302.000		L	#	-	-
	mg/L	0602	06/08/1999	0001	KM	O	724.000			#	-	-
	mg/L	0603	06/07/1999	0001	AL	N	412.000			#	-	-
	mg/L	0604	06/02/1999	0001	KM	N	3220.000		L	#	-	-
	mg/L	0725	06/07/1999	0001	AL	N	138.000			#	-	-
	mg/L	0726	06/07/1999	0001	KM	N	148.000			#	-	-
	mg/L	0727	06/07/1999	0001	KM	N	481.000			#	-	-
	mg/L	0728	06/08/1999	0001	AL	N	43.400			#	-	-
	mg/L	0730	06/08/1999	0001	AL	N	20.900		L	#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Chloride	mg/L	0731	06/07/1999	0001	AL	N	532.000			#	-	-
	mg/L	0812	06/08/1999	0001	AL	N	2270.000	L		#	-	-
	mg/L	0813	06/07/1999	0001	AL	N	636.000			#	-	-
	mg/L	0814	06/08/1999	0001	AL	N	1070.000	L		#	-	-
	mg/L	0815	06/08/1999	0001	AL	N	831.000			#	-	-
	mg/L	0816	06/08/1999	0001	AL	N	209.000			#	-	-
	mg/L	0819	06/08/1999	0001	KM	N	767.000	L		#	-	-
	mg/L	0820	06/04/1999	0001	KM	N	3220.000	L		#	-	-
	mg/L	0824	06/08/1999	0001	KM	N	6270.000	L		#	-	-
	mg/L	0826	06/08/1999	0001	AL	N	792.000			#	-	-
	mg/L	0827	06/08/1999	0001	AL	N	313.000	L		#	-	-
	mg/L	0828	06/08/1999	0001	AL	N	143.000			#	-	-
	mg/L	0830	06/08/1999	0001	KM	N	46.900			#	-	-
	mg/L	0832	06/05/1999	0001	AL	N	525.000			#	-	-
	mg/L	0833	06/04/1999	0001	AL	N	278.000			#	-	-
	mg/L	0835	06/04/1999	0001	AL	N	20.400			#	-	-
	mg/L	0835	06/04/1999	0002	AL	N	20.400			#	-	-
	mg/L	0836	06/03/1999	0001	AL	N	41.800			#	-	-
	mg/L	0837	06/03/1999	0001	AL	N	20.100			#	-	-
	mg/L	0838	06/04/1999	0001	AL	N	15.100			#	-	-
	mg/L	0839	06/08/1999	0001	AL	N	449.000	L		#	-	-
	mg/L	0841	06/04/1999	0001	AL	N	557.000			#	-	-
	mg/L	0843	06/03/1999	0001	AL	N	25.900			#	-	-
	mg/L	0844	06/05/1999	0001	AL	N	71.700			#	-	-
	mg/L	0846	06/04/1999	0001	AL	N	118.000			#	-	-
	mg/L	0847	06/03/1999	0001	AL	N	15.000			#	-	-
	mg/L	0847	06/03/1999	0002	AL	N	14.700			#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL	RESULT	QUALIFIERS: LAB DATA QA			DETECTION LIMIT	UN-CERTAINTY
Chloride	mg/L	0848	06/03/1999	0001	AL	N	306.000			#	-	-
Chlorobenzene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
Chlorodibromomethane	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
Chloroethane	ug/L	0819	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0824	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0826	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0827	06/08/1999	N001	AL	N	10	U	L	#	10	-
	ug/L	0828	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0830	06/08/1999	N001	KM	N	10	U		#	10	-
Chloroform	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
Chloromethane	ug/L	0819	06/08/1999	N001	KM	N	10	U	L	#	10	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL	RESULT	QUALIFIERS: LAB DATA QA			DETECTION LIMIT	UN-CERTAINTY
Chloromethane	ug/L	0824	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0826	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0827	06/08/1999	N001	AL	N	10	U	L	#	10	-
	ug/L	0828	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0830	06/08/1999	N001	KM	N	10	U		#	10	-
cis-1,2-Dichloroethene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
cis-1,3-Dichloropropene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
Dibromomethane	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
Dichlorodifluoromethane	ug/L	0819	06/08/1999	N001	KM	N	5	U	RL	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	RL	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U	R	#	5	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)

REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA			DETECTION LIMIT	UN-CERTAINTY
Dichlorodifluoromethane	ug/L	0827	06/08/1999	N001	AL	N	5	U	RL	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U	R	#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U	R	#	5	-
Ethylbenzene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
Gross Alpha	pCi/L	0600	06/04/1999	0001	KM	O	609.43		L	#	128.64	± 134.
	pCi/L	0602	06/08/1999	0001	KM	O	850.35			#	277.68	± 249.
	pCi/L	0603	06/07/1999	0001	AL	N	113.41	U		#	113.41	± 61.3
	pCi/L	0604	06/02/1999	0001	KM	N	147.21		JL	#	128.29	± 96.2
	pCi/L	0725	06/07/1999	0001	AL	N	235.7			#	51.2	± 53.4
	pCi/L	0726	06/07/1999	0001	KM	N	82.13	U		#	82.13	± 42.7
	pCi/L	0727	06/07/1999	0001	KM	N	285.6			#	194.2	± 141.
	pCi/L	0728	06/08/1999	0001	AL	N	89.42			#	41.35	± 33.3
	pCi/L	0730	06/08/1999	0001	AL	N	30.19	U	L	#	30.19	± 16.1
	pCi/L	0731	06/07/1999	0001	AL	N	92.92	U		#	92.92	± 52.4
	pCi/L	0813	06/07/1999	0001	AL	N	275.00	U		#	275	± 156.
	pCi/L	0814	06/08/1999	0001	AL	N	229.02	U	L	#	229.02	± 135.
	pCi/L	0815	06/08/1999	0001	AL	N	297.22			#	230.73	± 162.
	pCi/L	0816	06/08/1999	0001	AL	N	74.71	U		#	74.71	± 46.6
	pCi/L	0819	06/08/1999	0001	KM	N	547.0		L	#	207.7	± 173.
	pCi/L	0824	06/08/1999	0001	KM	N	216.75	U	L	#	216.75	± 104.
	pCi/L	0826	06/08/1999	0001	AL	N	1928			#	203	± 281.
	pCi/L	0827	06/08/1999	0001	AL	N	550.6		L	#	81	± 98.2

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA		DETECTION LIMIT	UN-CERTAINTY	
Gross Alpha	pCi/L	0828	06/08/1999	0001	AL	N	130.2		#	33.6	± 32.7	
	pCi/L	0830	06/08/1999	0001	KM	N	23.12	U	#	23.12	± 13.6	
	pCi/L	0832	06/05/1999	0001	AL	N	102.60	U	#	102.6	± 53.4	
	pCi/L	0833	06/04/1999	0001	AL	N	151.42		#	94.34	± 70.2	
	pCi/L	0835	06/04/1999	0001	AL	N	21.32	U	#	21.32	± 14.2	
	pCi/L	0835	06/04/1999	0002	AL	N	21.48	U	#	21.48	± 14.1	
	pCi/L	0836	06/03/1999	0001	AL	N	64.12		J	#	23.99	± 24.2
	pCi/L	0837	06/03/1999	0001	AL	N	18.13		J	#	14.96	± 11.4
	pCi/L	0838	06/04/1999	0001	AL	N	26.89	U	#	26.89	± 16.9	
	pCi/L	0839	06/08/1999	0001	AL	N	293.09		L	#	164.14	± 125.
	pCi/L	0841	06/04/1999	0001	AL	N	220.07	U	#	220.07	± 129.	
	pCi/L	0843	06/03/1999	0001	AL	N	40.11		J	#	16.94	± 16.3
	pCi/L	0844	06/05/1999	0001	AL	N	49.62	U	#	49.62	± 31.2	
	pCi/L	0846	06/04/1999	0001	AL	N	29.40		J	#	23.91	± 18.3
	pCi/L	0847	06/03/1999	0001	AL	N	18.12		J	#	13.95	± 10.8
	pCi/L	0847	06/03/1999	0002	AL	N	32.08		J	#	13.97	± 13.3
	pCi/L	0848	06/03/1999	0001	AL	N	99.75	U	J	#	99.75	± 63.3
	Gross Beta	pCi/L	0600	06/04/1999	0001	KM	O	423.46		L	#	128.26
pCi/L		0602	06/08/1999	0001	KM	O	525.10		#	310.86	± 204.	
pCi/L		0603	06/07/1999	0001	AL	N	180.7		#	121.6	± 78.9	
pCi/L		0604	06/02/1999	0001	KM	N	155.11	U	L	#	155.11	± 91.5
pCi/L		0725	06/07/1999	0001	AL	N	67.12		#	53.13	± 33.7	
pCi/L		0726	06/07/1999	0001	KM	N	86.98	U	#	86.98	± 50.4	
pCi/L		0727	06/07/1999	0001	KM	N	205.8	U	#	205.8	± 124.	
pCi/L		0728	06/08/1999	0001	AL	N	76.75		#	41.69	± 27.7	
pCi/L		0730	06/08/1999	0001	AL	N	30.65	U	L	#	30.65	± 18.1
pCi/L		0731	06/07/1999	0001	AL	N	101.34	U	#	101.34	± 58.9	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
								LAB	DATA	QA		
Gross Beta	pCi/L	0813	06/07/1999	0001	AL	N	303.56	U		#	303.56	± 182.
	pCi/L	0814	06/08/1999	0001	AL	N	208.44	U	L	#	208.44	± 123.
	pCi/L	0815	06/08/1999	0001	AL	N	210.12	U		#	210.12	± 128.
	pCi/L	0816	06/08/1999	0001	AL	N	76.92	U		#	76.92	± 44.3
	pCi/L	0819	06/08/1999	0001	KM	N	3836		L	#	208	± 277.
	pCi/L	0824	06/08/1999	0001	KM	N	205.6	U	L	#	205.6	± 127.
	pCi/L	0826	06/08/1999	0001	AL	N	1945			#	220	± 211.
	pCi/L	0827	06/08/1999	0001	AL	N	290.7		L	#	81.6	± 80.6
	pCi/L	0828	06/08/1999	0001	AL	N	124.7			#	32	± 24.4
	pCi/L	0830	06/08/1999	0001	KM	N	24.47	U		#	24.47	± 13.9
	pCi/L	0832	06/05/1999	0001	AL	N	102.34	U		#	102.34	± 59.5
	pCi/L	0833	06/04/1999	0001	AL	N	89.72	U		#	89.72	± 54.7
	pCi/L	0835	06/04/1999	0001	AL	N	20.75	U		#	20.75	± 12.0
	pCi/L	0835	06/04/1999	0002	AL	N	20.75	U		#	20.75	± 12.4
	pCi/L	0836	06/03/1999	0001	AL	N	31.13	U		#	31.13	± 18.5
	pCi/L	0837	06/03/1999	0001	AL	N	23.10			#	18.58	± 11.7
	pCi/L	0838	06/04/1999	0001	AL	N	24.99	U		#	24.99	± 15.0
	pCi/L	0839	06/08/1999	0001	AL	N	157.13	U	L	#	157.13	± 95.7
	pCi/L	0841	06/04/1999	0001	AL	N	207.22	U		#	207.22	± 129.
	pCi/L	0843	06/03/1999	0001	AL	N	23.22	U		#	23.22	± 13.7
pCi/L	0844	06/05/1999	0001	AL	N	47.81	U		#	47.81	± 28.4	
pCi/L	0846	06/04/1999	0001	AL	N	30.89	U		#	30.89	± 17.5	
pCi/L	0847	06/03/1999	0001	AL	N	18.51	U		#	18.51	± 11.0	
pCi/L	0847	06/03/1999	0002	AL	N	18.61	U		#	18.61	± 10.8	
pCi/L	0848	06/03/1999	0001	AL	N	89.73	U		#	89.73	± 55.7	
Iodomethane	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Iodomethane	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
Iron	mg/L	0600	06/04/1999	0001	KM	O	0.0059	U	L	#	0.0059	-
	mg/L	0602	06/06/1999	0001	KM	O	0.0059	U		#	0.0059	-
	mg/L	0603	06/07/1999	0001	AL	N	0.0059	U		#	0.0059	-
	mg/L	0604	06/02/1999	0001	KM	N	0.0259	B	UL	#	-	-
	mg/L	0725	06/07/1999	0001	AL	N	0.0059	U		#	0.0059	-
	mg/L	0726	06/07/1999	0001	KM	N	0.0059	U		#	0.0059	-
	mg/L	0727	06/07/1999	0001	KM	N	0.0059	U		#	0.0059	-
	mg/L	0728	06/08/1999	0001	AL	N	0.0059	U		#	0.0059	-
	mg/L	0730	06/08/1999	0001	AL	N	0.179		L	#	-	-
	mg/L	0731	06/07/1999	0001	AL	N	0.222			#	-	-
	mg/L	0812	06/08/1999	0001	AL	N	0.0059	U	L	#	0.0059	-
	mg/L	0813	06/07/1999	0001	AL	N	0.0059	U		#	0.0059	-
	mg/L	0814	06/08/1999	0001	AL	N	0.0059	U	L	#	0.0059	-
	mg/L	0815	06/08/1999	0001	AL	N	0.0059	U		#	0.0059	-
	mg/L	0816	06/08/1999	0001	AL	N	0.0059	U		#	0.0059	-
	mg/L	0819	06/08/1999	0001	KM	N	0.0285	B	L	#	-	-
	mg/L	0820	06/04/1999	0001	KM	N	0.0199	B	UL	#	-	-
	mg/L	0824	06/08/1999	0001	KM	N	0.0059	U	L	#	0.0059	-
	mg/L	0826	06/08/1999	0001	AL	N	0.0631			#	-	-
	mg/L	0827	06/08/1999	0001	AL	N	0.0362		L	#	-	-
	mg/L	0828	06/08/1999	0001	AL	N	0.0059	U		#	0.0059	-
	mg/L	0830	06/08/1999	0001	KM	N	0.0059	U		#	0.0059	-
	mg/L	0832	06/05/1999	0001	AL	N	0.0059	U		#	0.0059	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)

REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Iron	mg/L	0833	06/04/1999	0001	AL	N	0.0059	U		#	0.0059	-
	mg/L	0835	06/04/1999	0001	AL	N	0.0059	U		#	0.0059	-
	mg/L	0835	06/04/1999	0002	AL	N	0.0059	U		#	0.0059	-
	mg/L	0836	06/03/1999	0001	AL	N	0.0059	U		#	0.0059	-
	mg/L	0837	06/03/1999	0001	AL	N	0.0059	U		#	0.0059	-
	mg/L	0838	06/04/1999	0001	AL	N	0.0059	U		#	0.0059	-
	mg/L	0839	06/08/1999	0001	AL	N	0.0059	U	L	#	0.0059	-
	mg/L	0841	06/04/1999	0001	AL	N	0.0059	U		#	0.0059	-
	mg/L	0843	06/03/1999	0001	AL	N	0.0059	U		#	0.0059	-
	mg/L	0844	06/05/1999	0001	AL	N	0.0059	U		#	0.0059	-
	mg/L	0846	06/04/1999	0001	AL	N	0.0059	U		#	0.0059	-
	mg/L	0847	06/03/1999	0001	AL	N	0.0075	B	U	#	-	-
	mg/L	0847	06/03/1999	0002	AL	N	0.0159	B	U	#	-	-
	mg/L	0848	06/03/1999	0001	AL	N	0.0117	B	U	#	-	-
Isopropylbenzene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
m-Xylene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Magnesium	mg/L	0600	06/04/1999	0001	KM	O	778.000	L	#		-	-
	mg/L	0602	06/08/1999	0001	KM	O	2480.000		#		-	-
	mg/L	0603	06/07/1999	0001	AL	N	950.000		#		-	-
	mg/L	0604	06/02/1999	0001	KM	N	1320.000	L	#		-	-
	mg/L	0725	06/07/1999	0001	AL	N	191.000		#		-	-
	mg/L	0726	06/07/1999	0001	KM	N	394.000		#		-	-
	mg/L	0727	06/07/1999	0001	KM	N	1820.000		#		-	-
	mg/L	0728	06/08/1999	0001	AL	N	290.000		#		-	-
	mg/L	0730	06/08/1999	0001	AL	N	172.000	L	#		-	-
	mg/L	0731	06/07/1999	0001	AL	N	748.000		#		-	-
	mg/L	0812	06/08/1999	0001	AL	N	2050.000	L	#		-	-
	mg/L	0813	06/07/1999	0001	AL	N	2840.000		#		-	-
	mg/L	0814	06/08/1999	0001	AL	N	2320.000	L	#		-	-
	mg/L	0815	06/08/1999	0001	AL	N	2330.000		#		-	-
	mg/L	0816	06/08/1999	0001	AL	N	565.000		#		-	-
	mg/L	0819	06/08/1999	0001	KM	N	1570.000	L	#		-	-
	mg/L	0820	06/04/1999	0001	KM	N	63.600	L	#		-	-
	mg/L	0824	06/08/1999	0001	KM	N	130.000	L	#		-	-
	mg/L	0826	06/08/1999	0001	AL	N	2190.000		#		-	-
	mg/L	0827	06/08/1999	0001	AL	N	495.000	L	#		-	-
	mg/L	0828	06/08/1999	0001	AL	N	214.000		#		-	-
	mg/L	0830	06/08/1999	0001	KM	N	42.600		#		-	-
	mg/L	0832	06/05/1999	0001	AL	N	769.000		#		-	-
	mg/L	0833	06/04/1999	0001	AL	N	743.000		#		-	-
	mg/L	0835	06/04/1999	0001	AL	N	96.900		#		-	-
	mg/L	0835	06/04/1999	0002	AL	N	100.000		#		-	-
	mg/L	0836	06/03/1999	0001	AL	N	262.000		#		-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Magnesium	mg/L	0837	06/03/1999	0001	AL	N	181.000	#	-	-
	mg/L	0838	06/04/1999	0001	AL	N	143.000	#	-	-
	mg/L	0839	06/08/1999	0001	AL	N	1680.000	L #	-	-
	mg/L	0841	06/04/1999	0001	AL	N	699.000	#	-	-
	mg/L	0843	06/03/1999	0001	AL	N	183.000	#	-	-
	mg/L	0844	06/05/1999	0001	AL	N	377.000	#	-	-
	mg/L	0846	06/04/1999	0001	AL	N	213.000	#	-	-
	mg/L	0847	06/03/1999	0001	AL	N	96.300	#	-	-
	mg/L	0847	06/03/1999	0002	AL	N	101.000	#	-	-
	mg/L	0848	06/03/1999	0001	AL	N	500.000	#	-	-
Manganese	mg/L	0600	06/04/1999	0001	KM	O	1.630	L #	-	-
	mg/L	0602	06/08/1999	0001	KM	O	2.140	#	-	-
	mg/L	0603	06/07/1999	0001	AL	N	30.400	#	-	-
	mg/L	0604	06/02/1999	0001	KM	N	0.547	L #	-	-
	mg/L	0725	06/07/1999	0001	AL	N	0.0024	B #	-	-
	mg/L	0726	06/07/1999	0001	KM	N	0.315	#	-	-
	mg/L	0727	06/07/1999	0001	KM	N	1.360	#	-	-
	mg/L	0728	06/08/1999	0001	AL	N	0.395	#	-	-
	mg/L	0730	06/08/1999	0001	AL	N	20.800	L #	-	-
	mg/L	0731	06/07/1999	0001	AL	N	0.181	#	-	-
	mg/L	0812	06/08/1999	0001	AL	N	0.271	L #	-	-
	mg/L	0813	06/07/1999	0001	AL	N	0.204	#	-	-
	mg/L	0814	06/08/1999	0001	AL	N	1.250	L #	-	-
	mg/L	0815	06/08/1999	0001	AL	N	1.420	#	-	-
	mg/L	0816	06/08/1999	0001	AL	N	0.0290	#	-	-
	mg/L	0819	06/08/1999	0001	KM	N	2.270	L #	-	-
mg/L	0820	06/04/1999	0001	KM	N	0.165	L #	-	-	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)

REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY	
			DATE	ID				LAB	DATA	QA			
Manganese	mg/L	0824	06/08/1999	0001	KM	N	0.106	L	#		-	-	
	mg/L	0826	06/08/1999	0001	AL	N	2.770		#		-	-	
	mg/L	0827	06/08/1999	0001	AL	N	1.440	L	#		-	-	
	mg/L	0828	06/08/1999	0001	AL	N	0.497		#		-	-	
	mg/L	0830	06/08/1999	0001	KM	N	2.270		#		-	-	
	mg/L	0832	06/05/1999	0001	AL	N	0.0020	B	#		-	-	
	mg/L	0833	06/04/1999	0001	AL	N	0.0024	B	#		-	-	
	mg/L	0835	06/04/1999	0001	AL	N	0.00090	U	#		0.0009	-	
	mg/L	0835	06/04/1999	0002	AL	N	0.00090	U	#		0.0009	-	
	mg/L	0836	06/03/1999	0001	AL	N	1.540		#		-	-	
	mg/L	0837	06/03/1999	0001	AL	N	1.810		#		-	-	
	mg/L	0838	06/04/1999	0001	AL	N	0.00090	U	#		0.0009	-	
	mg/L	0839	06/08/1999	0001	AL	N	0.746		L	#		-	-
	mg/L	0841	06/04/1999	0001	AL	N	0.0356		#		-	-	
	mg/L	0843	06/03/1999	0001	AL	N	3.030		#		-	-	
	mg/L	0844	06/05/1999	0001	AL	N	0.0549		#		-	-	
	mg/L	0846	06/04/1999	0001	AL	N	0.0028	B	#		-	-	
	mg/L	0847	06/03/1999	0001	AL	N	0.0282		#		-	-	
mg/L	0847	06/03/1999	0002	AL	N	0.0295		#		-	-		
mg/L	0848	06/03/1999	0001	AL	N	0.430		#		-	-		
Methylene chloride	ug/L	0819	06/08/1999	N001	KM	N	10	U	L	#	10	-	
	ug/L	0824	06/08/1999	N001	KM	N	10	U	L	#	10	-	
	ug/L	0826	06/08/1999	N001	AL	N	10	U		#	10	-	
	ug/L	0827	06/08/1999	N001	AL	N	10	U	L	#	10	-	
	ug/L	0828	06/08/1999	N001	AL	N	10	U		#	10	-	
	ug/L	0830	06/08/1999	N001	KM	N	10	U		#	10	-	
n-Butylbenzene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)

REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA			DETECTION LIMIT	UN-CERTAINTY
n-Butylbenzene	ug/L	0824	08/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
n-Propylbenzene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
Nitrate	mg/L	0600	06/04/1999	0001	KM	O	516.000		L	#	-	-
	mg/L	0602	06/08/1999	0001	KM	O	129.000			#	-	-
	mg/L	0603	06/07/1999	0001	AL	N	4790.000			#	-	-
	mg/L	0604	06/02/1999	0001	KM	N	5470.000		L	#	-	-
	mg/L	0725	06/07/1999	0001	AL	N	175.000			#	-	-
	mg/L	0726	06/07/1999	0001	KM	N	136.000			#	-	-
	mg/L	0727	06/07/1999	0001	KM	N	1490.000			#	-	-
	mg/L	0728	06/08/1999	0001	AL	N	281.000			#	-	-
	mg/L	0730	06/08/1999	0001	AL	N	517.000		L	#	-	-
	mg/L	0731	06/07/1999	0001	AL	N	1910.000			#	-	-
	mg/L	0812	06/08/1999	0001	AL	N	6340.000		L	#	-	-
	mg/L	0813	06/07/1999	0001	AL	N	8440.000			#	-	-
	mg/L	0814	06/08/1999	0001	AL	N	4270.000		L	#	-	-
	mg/L	0815	06/08/1999	0001	AL	N	2730.000			#	-	-
	mg/L	0816	06/08/1999	0001	AL	N	414.000			#	-	-
	mg/L	0819	06/08/1999	0001	KM	N	272.000		L	#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)

REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL	RESULT	QUALIFIERS: LAB DATA QA			DETECTION LIMIT	UN-CERTAINTY
Nitrate	mg/L	0820	06/04/1999	0001	KM	N	176.000	L	#		-	-
	mg/L	0824	06/08/1999	0001	KM	N	97.700	L	#		-	-
	mg/L	0826	06/08/1999	0001	AL	N	137.000		#		-	-
	mg/L	0827	06/08/1999	0001	AL	N	611.000	L	#		-	-
	mg/L	0828	06/08/1999	0001	AL	N	73.100		#		-	-
	mg/L	0830	06/08/1999	0001	KM	N	81.100		#		-	-
	mg/L	0832	06/05/1999	0001	AL	N	1790.000		#		-	-
	mg/L	0833	06/04/1999	0001	AL	N	1100.000		#		-	-
	mg/L	0835	06/04/1999	0001	AL	N	27.600		#		-	-
	mg/L	0835	06/04/1999	0002	AL	N	27.600		#		-	-
	mg/L	0836	06/03/1999	0001	AL	N	57.900		#		-	-
	mg/L	0837	06/03/1999	0001	AL	N	5.690		#		-	-
	mg/L	0838	06/04/1999	0001	AL	N	15.500		#		-	-
	mg/L	0839	06/08/1999	0001	AL	N	2180.000	L	#		-	-
	mg/L	0841	06/04/1999	0001	AL	N	1890.000		#		-	-
	mg/L	0843	06/03/1999	0001	AL	N	0.0180	B	U	#	-	-
	mg/L	0844	06/05/1999	0001	AL	N	192.000		#		-	-
	mg/L	0846	06/04/1999	0001	AL	N	517.000		#		-	-
	mg/L	0847	06/03/1999	0001	AL	N	15.000		#		-	-
	mg/L	0847	06/03/1999	0002	AL	N	15.000		#		-	-
mg/L	0848	06/03/1999	0001	AL	N	1070.000		#		-	-	
o-Xylene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)

REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA			DETECTION LIMIT	UN-CERTAINTY
p-Isopropyltoluene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
pH	s.u.	0600	06/04/1999	N001	KM	O	6.60		L	#	-	-
	s.u.	0602	06/08/1999	N001	KM	O	6.47			#	-	-
	s.u.	0603	06/07/1999	N001	AL	N	6.28			#	-	-
	s.u.	0604	06/02/1999	N001	KM	N	6.65		L	#	-	-
	s.u.	0725	06/07/1999	N001	AL	N	6.98			#	-	-
	s.u.	0726	06/07/1999	N001	KM	N	6.74			#	-	-
	s.u.	0727	06/07/1999	N001	KM	N	7.31			#	-	-
	s.u.	0728	06/08/1999	N001	AL	N	7.01			#	-	-
	s.u.	0730	06/08/1999	N001	AL	N	5.28		L	#	-	-
	s.u.	0731	06/07/1999	N001	AL	N	6.43			#	-	-
	s.u.	0812	06/08/1999	N001	AL	N	7.46		L	#	-	-
	s.u.	0813	06/07/1999	N001	AL	N	7.06			#	-	-
	s.u.	0814	06/08/1999	N001	AL	N	7.07		L	#	-	-
	s.u.	0815	06/08/1999	N001	AL	N	6.72			#	-	-
	s.u.	0816	06/08/1999	N001	AL	N	7.11			#	-	-
	s.u.	0819	06/08/1999	N001	KM	N	6.76		L	#	-	-
	s.u.	0820	06/04/1999	N001	KM	N	7.62		L	#	-	-
	s.u.	0824	06/08/1999	N001	KM	N	7.54		L	#	-	-
	s.u.	0826	06/08/1999	N001	AL	N	6.54			#	-	-
	s.u.	0827	06/08/1999	N001	AL	N	6.44		L	#	-	-
s.u.	0828	06/08/1999	N001	AL	N	7.00			#	-	-	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA).
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
pH	s.u.	0830	06/08/1999	N001	KM	N	4.88			#	-	-
	s.u.	0832	06/05/1999	N001	AL	N	6.99			#	-	-
	s.u.	0833	06/04/1999	N001	AL	N	6.70			#	-	-
	s.u.	0835	06/04/1999	N001	AL	N	6.74			#	-	-
	s.u.	0836	06/03/1999	N001	AL	N	6.77			#	-	-
	s.u.	0837	06/03/1999	N001	AL	N	6.77			#	-	-
	s.u.	0838	06/04/1999	N001	AL	N	6.77			#	-	-
	s.u.	0839	06/08/1999	N001	AL	N	6.88		L	#	-	-
	s.u.	0841	06/04/1999	N001	AL	N	7.11			#	-	-
	s.u.	0843	06/03/1999	N001	AL	N	6.77			#	-	-
	s.u.	0844	06/05/1999	N001	AL	N	6.84			#	-	-
	s.u.	0846	06/04/1999	N001	AL	N	6.90			#	-	-
	s.u.	0847	06/03/1999	N001	AL	N	7.09			#	-	-
	s.u.	0848	06/03/1999	N001	AL	N	6.89			#	-	-
	Polonium-210	pCi/L	0600	06/04/1999	0001	KM	O	0.17	U	L	#	0.17
pCi/L		0602	06/08/1999	0001	KM	O	0.26		U	#	0.16	± 0.29
pCi/L		0603	06/07/1999	0001	AL	N	0.43	U		#	0.43	± -0.39
pCi/L		0604	06/02/1999	0001	KM	N	0.23	U	L	#	0.23	± 0.26
pCi/L		0725	06/07/1999	0001	AL	N	0.23	U		#	0.23	± 0.23
pCi/L		0726	06/07/1999	0001	KM	N	0	U		#	0.26	± -0.24
pCi/L		0727	06/07/1999	0001	KM	N	0.28	U		#	0.28	± 0.27
pCi/L		0728	06/08/1999	0001	AL	N	0.16	U		#	0.16	± 0.17
pCi/L		0730	06/08/1999	0001	AL	N	0.19	U	L	#	0.19	± 0.24
pCi/L		0731	06/07/1999	0001	AL	N	0.14	U		#	0.14	± 0.14
pCi/L		0813	06/07/1999	0001	AL	N	0.13	U		#	0.13	± 0.17
pCi/L		0814	06/08/1999	0001	AL	N	0.21	U	L	#	0.21	± 0.22
pCi/L		0815	06/08/1999	0001	AL	N	0.22	U		#	0.22	± 0.21

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Polonium-210	pCi/L	0816	06/08/1999	0001	AL	N	0.18	U		#	0.18	± -0.14
	pCi/L	0819	06/08/1999	0001	KM	N	0.45		UL	#	0.27	± 0.42
	pCi/L	0824	06/08/1999	0001	KM	N	0.18	U	L	#	0.18	± 0.22
	pCi/L	0826	06/08/1999	0001	AL	N	0.28	U		#	0.28	± 0.29
	pCi/L	0827	06/08/1999	0001	AL	N	0.31	U	L	#	0.31	± 0.31
	pCi/L	0828	06/08/1999	0001	AL	N	0.29	U		#	0.29	± 0.34
	pCi/L	0830	06/08/1999	0001	KM	N	0.27	U		#	0.27	± -0.24
	pCi/L	0832	06/05/1999	0001	AL	N	0.27	U		#	0.27	± 0.32
	pCi/L	0833	06/04/1999	0001	AL	N	0.15	U		#	0.15	± -0.13
	pCi/L	0835	06/04/1999	0001	AL	N	0.11	U		#	0.11	± 0.10
	pCi/L	0835	06/04/1999	0002	AL	N	0.17	U		#	0.17	± 0.16
	pCi/L	0836	06/03/1999	0001	AL	N	0.16	U		#	0.16	± 0.19
	pCi/L	0837	06/03/1999	0001	AL	N	0.18	U		#	0.18	± 0.20
	pCi/L	0838	06/04/1999	0001	AL	N	0.17	U		#	0.17	± 0.18
	pCi/L	0839	06/08/1999	0001	AL	N	0.14	U	L	#	0.14	± 0.17
	pCi/L	0841	06/04/1999	0001	AL	N	0.14	U		#	0.14	± 0.14
	pCi/L	0843	06/03/1999	0001	AL	N	0.25	U		#	0.25	± -0.22
	pCi/L	0844	06/05/1999	0001	AL	N	0.17	U		#	0.17	± 0.15
	pCi/L	0846	06/04/1999	0001	AL	N	0.23	U		#	0.23	± 0.23
	pCi/L	0847	06/03/1999	0001	AL	N	0.27	U		#	0.27	± 0.27
pCi/L	0847	06/03/1999	0002	AL	N	0.34	U		#	0.34	± 0.35	
pCi/L	0848	06/03/1999	0001	AL	N	0.29	U		#	0.29	± 0.37	
Potassium	mg/L	0600	06/04/1999	0001	KM	O	101.000		L	#	-	-
	mg/L	0602	06/08/1999	0001	KM	O	220.000			#	-	-
	mg/L	0603	06/07/1999	0001	AL	N	217.000			#	-	-
	mg/L	0604	06/02/1999	0001	KM	N	47.400	E	JL	#	-	-
	mg/L	0725	06/07/1999	0001	AL	N	14.000			#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)

REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA			DETECTION LIMIT	UN-CERTAINTY
Potassium	mg/L	0726	06/07/1999	0001	KM	N	34.300			#	-	-
	mg/L	0727	06/07/1999	0001	KM	N	69.100			#	-	-
	mg/L	0728	06/08/1999	0001	AL	N	41.100	E	J	#	-	-
	mg/L	0730	06/08/1999	0001	AL	N	27.200	E	JL	#	-	-
	mg/L	0731	06/07/1999	0001	AL	N	54.400			#	-	-
	mg/L	0812	06/08/1999	0001	AL	N	69.700	E	JL	#	-	-
	mg/L	0813	06/07/1999	0001	AL	N	109.000			#	-	-
	mg/L	0814	06/08/1999	0001	AL	N	107.000	E	JL	#	-	-
	mg/L	0815	06/08/1999	0001	AL	N	77.100	E	J	#	-	-
	mg/L	0816	06/08/1999	0001	AL	N	17.100	E	J	#	-	-
	mg/L	0819	06/08/1999	0001	KM	N	179.000		L	#	-	-
	mg/L	0820	06/04/1999	0001	KM	N	24.100		L	#	-	-
	mg/L	0824	06/08/1999	0001	KM	N	221.000		L	#	-	-
	mg/L	0826	06/08/1999	0001	AL	N	121.000			#	-	-
	mg/L	0827	06/08/1999	0001	AL	N	21.100		L	#	-	-
	mg/L	0828	06/08/1999	0001	AL	N	19.000			#	-	-
	mg/L	0830	06/08/1999	0001	KM	N	3.640			#	-	-
	mg/L	0832	06/05/1999	0001	AL	N	18.400			#	-	-
	mg/L	0833	06/04/1999	0001	AL	N	16.300	E	J	#	-	-
	mg/L	0835	06/04/1999	0001	AL	N	4.290	E	J	#	-	-
	mg/L	0835	06/04/1999	0002	AL	N	4.470	E	J	#	-	-
	mg/L	0836	06/03/1999	0001	AL	N	5.030	E	J	#	-	-
	mg/L	0837	06/03/1999	0001	AL	N	6.130	E	J	#	-	-
	mg/L	0838	06/04/1999	0001	AL	N	5.440	E	J	#	-	-
	mg/L	0839	06/08/1999	0001	AL	N	102.000	E	JL	#	-	-
	mg/L	0841	06/04/1999	0001	AL	N	46.200	E	J	#	-	-
	mg/L	0843	06/03/1999	0001	AL	N	9.850	E	J	#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)

REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Potassium	mg/L	0844	06/05/1999	0001	AL	N	11.200			#	-	-
	mg/L	0846	06/04/1999	0001	AL	N	7.940	E	J	#	-	-
	mg/L	0847	06/03/1999	0001	AL	N	4.290	E	J	#	-	-
	mg/L	0847	06/03/1999	0002	AL	N	4.390	E	J	#	-	-
	mg/L	0848	06/03/1999	0001	AL	N	18.600	E	J	#	-	-
Radium-226	pCi/L	0600	06/04/1999	0001	KM	O	0.92			L #	0.21	± 0.18
	pCi/L	0602	06/08/1999	0001	KM	O	4.31			#	0.22	± 0.40
	pCi/L	0603	06/07/1999	0001	AL	N	0.21			#	0.16	± 0.11
	pCi/L	0604	06/02/1999	0001	KM	N	0.56			L #	0.15	± 0.13
	pCi/L	0725	06/07/1999	0001	AL	N	0.12	U		#	0.12	± 0.06
	pCi/L	0726	06/07/1999	0001	KM	N	0.94			#	0.15	± 0.16
	pCi/L	0727	06/07/1999	0001	KM	N	2.92			#	0.18	± 0.30
	pCi/L	0728	06/08/1999	0001	AL	N	0.84			#	0.12	± 0.13
	pCi/L	0730	06/08/1999	0001	AL	N	0.21			L #	0.15	± 0.10
	pCi/L	0731	06/07/1999	0001	AL	N	0.15	U		#	0.15	± 0.09
	pCi/L	0813	06/07/1999	0001	AL	N	0.68			#	0.14	± 0.13
	pCi/L	0814	06/08/1999	0001	AL	N	0.74			L #	0.17	± 0.15
	pCi/L	0815	06/08/1999	0001	AL	N	3.90			#	0.15	± 0.36
	pCi/L	0816	06/08/1999	0001	AL	N	0.12	U		#	0.12	± 0.07
	pCi/L	0819	06/08/1999	0001	KM	N	0.53			L #	0.14	± 0.12
	pCi/L	0824	06/08/1999	0001	KM	N	0.79			L #	0.17	± 0.14
	pCi/L	0826	06/08/1999	0001	AL	N	1.25			#	0.15	± 0.18
	pCi/L	0827	06/08/1999	0001	AL	N	1.84			L #	0.16	± 0.23
	pCi/L	0828	06/08/1999	0001	AL	N	0.14			#	0.13	± 0.08
	pCi/L	0830	06/08/1999	0001	KM	N	0.12	U		#	0.12	± 0.07
	pCi/L	0832	06/05/1999	0001	AL	N	0.17			#	0.13	± 0.09
	pCi/L	0833	06/04/1999	0001	AL	N	0.11	U		#	0.11	± 0.06

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Radium-226	pCi/L	0835	06/04/1999	0001	AL	N	0.10	U #	0.1	± 0.06
	pCi/L	0835	06/04/1999	0002	AL	N	0.10	U #	0.1	± 0.06
	pCi/L	0836	06/03/1999	0001	AL	N	0.13	U #	0.13	± 0.08
	pCi/L	0837	06/03/1999	0001	AL	N	0.14	U #	0.14	± 0.08
	pCi/L	0838	06/04/1999	0001	AL	N	0.10	U #	0.1	± 0.06
	pCi/L	0839	06/06/1999	0001	AL	N	2.01	L #	0.14	± 0.22
	pCi/L	0841	06/04/1999	0001	AL	N	0.54	#	0.12	± 0.10
	pCi/L	0843	06/03/1999	0001	AL	N	0.16	#	0.13	± 0.09
	pCi/L	0844	06/05/1999	0001	AL	N	0.34	#	0.14	± 0.11
	pCi/L	0846	06/04/1999	0001	AL	N	0.18	#	0.13	± 0.09
	pCi/L	0847	06/03/1999	0001	AL	N	0.23	#	0.12	± 0.09
	pCi/L	0847	06/03/1999	0002	AL	N	0.14	#	0.13	± 0.09
	pCi/L	0848	06/03/1999	0001	AL	N	0.95	#	0.15	± 0.16
Radium-228	pCi/L	0800	06/04/1999	0001	KM	O	4.79	L #	0.81	± 0.60
	pCi/L	0802	06/08/1999	0001	KM	O	10.58	J #	0.7	± 0.70
	pCi/L	0803	06/07/1999	0001	AL	N	2.42	J #	0.79	± 0.51
	pCi/L	0804	06/02/1999	0001	KM	N	1.22	L #	0.8	± 0.50
	pCi/L	0725	06/07/1999	0001	AL	N	0.70	U J #	0.7	± 0.41
	pCi/L	0726	06/07/1999	0001	KM	N	1.98	J #	0.77	± 0.50
	pCi/L	0727	06/07/1999	0001	KM	N	5.79	J #	0.73	± 0.57
	pCi/L	0728	06/08/1999	0001	AL	N	1.09	J #	0.65	± 0.41
	pCi/L	0730	06/08/1999	0001	AL	N	0.87	U JL #	0.87	± 0.53
	pCi/L	0731	06/07/1999	0001	AL	N	0.88	J #	0.79	± 0.48
	pCi/L	0813	06/07/1999	0001	AL	N	1.18	J #	0.73	± 0.45
	pCi/L	0814	06/08/1999	0001	AL	N	1.34	JL #	0.91	± 0.56
	pCi/L	0815	06/08/1999	0001	AL	N	3.57	J #	0.7	± 0.49
pCi/L	0816	06/08/1999	0001	AL	N	0.65	U J #	0.65	± 0.40	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)

REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS:			DETECTION LIMIT	UN- CERTAINTY
			DATE	ID				LAB	DATA	QA		
Radium-228	pCi/L	0819	06/08/1999	0001	KM	N	1.38	JL	#		0.74	± 0.46
	pCi/L	0824	06/08/1999	0001	KM	N	1.53	JL	#		0.93	± 0.57
	pCi/L	0826	06/08/1999	0001	AL	N	2.65	J	#		0.73	± 0.49
	pCi/L	0827	06/08/1999	0001	AL	N	2.06	JL	#		0.79	± 0.51
	pCi/L	0828	06/08/1999	0001	AL	N	0.73	J	#		0.72	± 0.44
	pCi/L	0830	06/08/1999	0001	KM	N	0.70	U	J	#	0.7	± 0.42
	pCi/L	0832	06/05/1999	0001	AL	N	0.75	U		#	0.75	± 0.45
	pCi/L	0833	06/04/1999	0001	AL	N	0.67			#	0.57	± 0.35
	pCi/L	0835	06/04/1999	0001	AL	N	0.60	U		#	0.6	± 0.38
	pCi/L	0835	06/04/1999	0002	AL	N	0.57	U		#	0.57	± 0.34
	pCi/L	0836	06/03/1999	0001	AL	N	0.78	U		#	0.78	± 0.45
	pCi/L	0837	06/03/1999	0001	AL	N	0.81	U		#	0.81	± 0.48
	pCi/L	0838	06/04/1999	0001	AL	N	0.58	U		#	0.58	± 0.35
	pCi/L	0839	06/08/1999	0001	AL	N	2.46		JL	#	0.67	± 0.45
	pCi/L	0841	06/04/1999	0001	AL	N	1.35			#	0.58	± 0.37
	pCi/L	0843	06/03/1999	0001	AL	N	0.79	U		#	0.79	± 0.47
	pCi/L	0844	06/05/1999	0001	AL	N	0.77	U		#	0.77	± 0.46
	pCi/L	0846	06/04/1999	0001	AL	N	0.81	U		#	0.81	± 0.48
	pCi/L	0847	06/03/1999	0001	AL	N	0.76	U		#	0.76	± 0.44
	pCi/L	0847	06/03/1999	0002	AL	N	0.80	U		#	0.8	± 0.47
pCi/L	0848	06/03/1999	0001	AL	N	1.17			#	0.76	± 0.47	
Redox Potential	mV	0600	06/04/1999	N001	KM	O	149		L	#	-	-
	mV	0602	06/08/1999	N001	KM	O	189			#	-	-
	mV	0603	06/07/1999	N001	AL	N	242			#	-	-
	mV	0604	06/02/1999	N001	KM	N	143		L	#	-	-
	mV	0725	06/07/1999	N001	AL	N	141			#	-	-
	mV	0726	06/07/1999	N001	KM	N	192			#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)

REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:		DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA QA		
Redox Potential	mV	0727	06/07/1999	N001	KM	N	181		#	-	-
	mV	0728	06/08/1999	N001	AL	N	99		#	-	-
	mV	0730	06/08/1999	N001	AL	N	133	L	#	-	-
	mV	0731	06/07/1999	N001	AL	N	162		#	-	-
	mV	0812	06/08/1999	N001	AL	N	157	L	#	-	-
	mV	0813	06/07/1999	N001	AL	N	149		#	-	-
	mV	0814	06/08/1999	N001	AL	N	138	L	#	-	-
	mV	0815	06/08/1999	N001	AL	N	121		#	-	-
	mV	0816	06/08/1999	N001	AL	N	67		#	-	-
	mV	0819	06/08/1999	N001	KM	N	220	L	#	-	-
	mV	0820	06/04/1999	N001	KM	N	133	L	#	-	-
	mV	0824	06/08/1999	N001	KM	N	153	L	#	-	-
	mV	0826	06/08/1999	N001	AL	N	242		#	-	-
	mV	0827	06/08/1999	N001	AL	N	176	L	#	-	-
	mV	0828	06/08/1999	N001	AL	N	-14		#	-	-
	mV	0830	06/08/1999	N001	KM	N	247		#	-	-
	mV	0832	06/05/1999	N001	AL	N	153		#	-	-
	mV	0833	06/04/1999	N001	AL	N	127		#	-	-
	mV	0835	06/04/1999	N001	AL	N	101		#	-	-
	mV	0836	06/03/1999	N001	AL	N	72		#	-	-
	mV	0837	06/03/1999	N001	AL	N	104		#	-	-
	mV	0838	06/04/1999	N001	AL	N	104		#	-	-
	mV	0839	06/08/1999	N001	AL	N	133	L	#	-	-
	mV	0841	06/04/1999	N001	AL	N	150		#	-	-
	mV	0843	06/03/1999	N001	AL	N	102		#	-	-
	mV	0844	06/05/1999	N001	AL	N	119		#	-	-
	mV	0846	06/04/1999	N001	AL	N	93		#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA			DETECTION LIMIT	UN-CERTAINTY
Redox Potential	mV	0847	06/03/1999	N001	AL	N	120			#	-	-
	mV	0848	06/03/1999	N001	AL	N	92			#	-	-
sec-Butylbenzene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
Selenium	mg/L	0600	06/04/1999	0001	KM	O	0.0016	B	L	#	-	-
	mg/L	0602	06/08/1999	0001	KM	O	0.0045	B		#	-	-
	mg/L	0603	06/07/1999	0001	AL	N	0.315			#	-	-
	mg/L	0604	06/02/1999	0001	KM	N	0.391		L	#	-	-
	mg/L	0725	06/07/1999	0001	AL	N	0.0268			#	-	-
	mg/L	0726	06/07/1999	0001	KM	N	0.0199			#	-	-
	mg/L	0727	06/07/1999	0001	KM	N	0.0012	B		#	-	-
	mg/L	0728	06/08/1999	0001	AL	N	0.0185			#	-	-
	mg/L	0730	06/08/1999	0001	AL	N	0.0160		L	#	-	-
	mg/L	0731	06/07/1999	0001	AL	N	0.303			#	-	-
	mg/L	0812	06/08/1999	0001	AL	N	6.410		L	#	-	-
	mg/L	0813	06/07/1999	0001	AL	N	0.0533			#	-	-
	mg/L	0814	06/08/1999	0001	AL	N	2.770		L	#	-	-
	mg/L	0815	06/08/1999	0001	AL	N	0.300			#	-	-
	mg/L	0816	06/08/1999	0001	AL	N	0.183			#	-	-
	mg/L	0819	06/08/1999	0001	KM	N	0.0061		L	#	-	-
	mg/L	0820	06/04/1999	0001	KM	N	0.0162		L	#	-	-
	mg/L	0824	06/08/1999	0001	KM	N	0.0095		L	#	-	-
	mg/L	0826	06/08/1999	0001	AL	N	0.0550			#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Selenium	mg/L	0827	06/08/1999	0001	AL	N	0.0153	L #	-	-
	mg/L	0828	06/08/1999	0001	AL	N	0.0181	#	-	-
	mg/L	0830	06/08/1999	0001	KM	N	0.0255	#	-	-
	mg/L	0832	06/05/1999	0001	AL	N	2.290	#	-	-
	mg/L	0833	06/04/1999	0001	AL	N	0.500	#	-	-
	mg/L	0835	06/04/1999	0001	AL	N	0.0467	#	-	-
	mg/L	0835	06/04/1999	0002	AL	N	0.0462	#	-	-
	mg/L	0836	06/03/1999	0001	AL	N	0.115	#	-	-
	mg/L	0837	06/03/1999	0001	AL	N	0.0156	#	-	-
	mg/L	0838	06/04/1999	0001	AL	N	0.0538	#	-	-
	mg/L	0839	06/08/1999	0001	AL	N	0.0093	L #	-	-
	mg/L	0841	06/04/1999	0001	AL	N	2.710	#	-	-
	mg/L	0843	06/03/1999	0001	AL	N	0.0010	U #	0.001	-
	mg/L	0844	06/05/1999	0001	AL	N	0.208	#	-	-
	mg/L	0846	06/04/1999	0001	AL	N	0.931	#	-	-
	mg/L	0847	06/03/1999	0001	AL	N	0.0406	#	-	-
	mg/L	0847	06/03/1999	0002	AL	N	0.0409	#	-	-
mg/L	0848	06/03/1999	0001	AL	N	1.850	#	-	-	
Sodium	mg/L	0600	06/04/1999	0001	KM	O	2450.000	L #	-	-
	mg/L	0602	06/08/1999	0001	KM	O	2790.000	#	-	-
	mg/L	0603	06/07/1999	0001	AL	N	1160.000	#	-	-
	mg/L	0604	06/02/1999	0001	KM	N	5030.000	L #	-	-
	mg/L	0725	06/07/1999	0001	AL	N	1050.000	#	-	-
	mg/L	0726	06/07/1999	0001	KM	N	1520.000	#	-	-
	mg/L	0727	06/07/1999	0001	KM	N	2700.000	#	-	-
	mg/L	0728	06/08/1999	0001	AL	N	252.000	#	-	-
	mg/L	0730	06/08/1999	0001	AL	N	116.000	L #	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Sodium	mg/L	0731	06/07/1999	0001	AL	N	1360.000			#	-	-
	mg/L	0812	06/08/1999	0001	AL	N	5910.000	L		#	-	-
	mg/L	0813	06/07/1999	0001	AL	N	2360.000			#	-	-
	mg/L	0814	06/08/1999	0001	AL	N	3250.000	L		#	-	-
	mg/L	0815	06/08/1999	0001	AL	N	3310.000			#	-	-
	mg/L	0816	06/08/1999	0001	AL	N	854.000			#	-	-
	mg/L	0819	06/08/1999	0001	KM	N	2740.000	L		#	-	-
	mg/L	0820	06/04/1999	0001	KM	N	5220.000	L		#	-	-
	mg/L	0824	06/08/1999	0001	KM	N	6380.000	L		#	-	-
	mg/L	0826	06/08/1999	0001	AL	N	2040.000			#	-	-
	mg/L	0827	06/08/1999	0001	AL	N	1200.000	L		#	-	-
	mg/L	0828	06/08/1999	0001	AL	N	491.000			#	-	-
	mg/L	0830	06/08/1999	0001	KM	N	147.000			#	-	-
	mg/L	0832	06/05/1999	0001	AL	N	1770.000			#	-	-
	mg/L	0833	06/04/1999	0001	AL	N	1100.000			#	-	-
	mg/L	0835	06/04/1999	0001	AL	N	118.000			#	-	-
	mg/L	0835	06/04/1999	0002	AL	N	123.000			#	-	-
	mg/L	0836	06/03/1999	0001	AL	N	488.000			#	-	-
	mg/L	0837	06/03/1999	0001	AL	N	162.000			#	-	-
	mg/L	0838	06/04/1999	0001	AL	N	174.000			#	-	-
	mg/L	0839	06/08/1999	0001	AL	N	1950.000	L		#	-	-
	mg/L	0841	06/04/1999	0001	AL	N	5400.000			#	-	-
	mg/L	0843	06/03/1999	0001	AL	N	190.000			#	-	-
	mg/L	0844	06/05/1999	0001	AL	N	448.000			#	-	-
	mg/L	0846	06/04/1999	0001	AL	N	492.000			#	-	-
	mg/L	0847	06/03/1999	0001	AL	N	135.000			#	-	-
	mg/L	0847	06/03/1999	0002	AL	N	144.000			#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)

REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Sodium	mg/L	0848	06/03/1999	0001	AL	N	1690.000	#	-	-
Specific Conductance	umhos/cm	0600	06/04/1999	N001	KM	O	14620	L #	-	-
	umhos/cm	0602	06/08/1999	N001	KM	O	21900	#	-	-
	umhos/cm	0603	06/07/1999	N001	AL	N	19830	#	-	-
	umhos/cm	0604	06/02/1999	N001	KM	N	24700	L #	-	-
	umhos/cm	0725	06/07/1999	N001	AL	N	5830	#	-	-
	umhos/cm	0726	06/07/1999	N001	KM	N	8990	#	-	-
	umhos/cm	0727	06/07/1999	N001	KM	N	16860	#	-	-
	umhos/cm	0728	06/08/1999	N001	AL	N	3410	#	-	-
	umhos/cm	0730	06/08/1999	N001	AL	N	4770	L #	-	-
	umhos/cm	0731	06/07/1999	N001	AL	N	10630	#	-	-
	umhos/cm	0812	06/08/1999	N001	AL	N	26900	L #	-	-
	umhos/cm	0813	06/07/1999	N001	AL	N	21700	#	-	-
	umhos/cm	0814	06/08/1999	N001	AL	N	21300	L #	-	-
	umhos/cm	0815	06/08/1999	N001	AL	N	19390	#	-	-
	umhos/cm	0816	06/08/1999	N001	AL	N	7660	#	-	-
	umhos/cm	0819	06/08/1999	N001	KM	N	19480	L #	-	-
	umhos/cm	0820	06/04/1999	N001	KM	N	19350	L #	-	-
	umhos/cm	0824	06/08/1999	N001	KM	N	25500	L #	-	-
	umhos/cm	0826	06/08/1999	N001	AL	N	17510	#	-	-
	umhos/cm	0827	06/08/1999	N001	AL	N	8580	L #	-	-
	umhos/cm	0828	06/08/1999	N001	AL	N	3890	#	-	-
	umhos/cm	0830	06/08/1999	N001	KM	N	3000	#	-	-
	umhos/cm	0832	06/05/1999	N001	AL	N	12100	#	-	-
	umhos/cm	0833	06/04/1999	N001	AL	N	9790	#	-	-
	umhos/cm	0835	06/04/1999	N001	AL	N	2530	#	-	-
	umhos/cm	0836	06/03/1999	N001	AL	N	4210	#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Specific Conductance	umhos/cm	0837	06/03/1999	N001	AL	N	3240	#	-	-
	umhos/cm	0838	06/04/1999	N001	AL	N	2910	#	-	-
	umhos/cm	0839	06/08/1999	N001	AL	N	15990	L #	-	-
	umhos/cm	0841	06/04/1999	N001	AL	N	20800	#	-	-
	umhos/cm	0843	06/03/1999	N001	AL	N	3370	#	-	-
	umhos/cm	0844	06/05/1999	N001	AL	N	4620	#	-	-
	umhos/cm	0846	06/04/1999	N001	AL	N	4890	#	-	-
	umhos/cm	0847	06/03/1999	N001	AL	N	3030	#	-	-
	umhos/cm	0848	06/03/1999	N001	AL	N	10230	#	-	-
Strontium	mg/L	0600	06/04/1999	0001	KM	O	9.230	L #	-	-
	mg/L	0602	06/08/1999	0001	KM	O	11.800	#	-	-
	mg/L	0603	06/07/1999	0001	AL	N	3.210	#	-	-
	mg/L	0604	06/02/1999	0001	KM	N	16.900	L #	-	-
	mg/L	0725	06/07/1999	0001	AL	N	10.700	#	-	-
	mg/L	0726	06/07/1999	0001	KM	N	6.890	#	-	-
	mg/L	0727	06/07/1999	0001	KM	N	12.900	#	-	-
	mg/L	0728	06/08/1999	0001	AL	N	4.260	#	-	-
	mg/L	0730	06/08/1999	0001	AL	N	2.690	L #	-	-
	mg/L	0731	06/07/1999	0001	AL	N	10.300	#	-	-
	mg/L	0812	06/08/1999	0001	AL	N	14.100	L #	-	-
	mg/L	0813	06/07/1999	0001	AL	N	17.400	#	-	-
	mg/L	0814	06/08/1999	0001	AL	N	13.200	L #	-	-
	mg/L	0815	06/08/1999	0001	AL	N	12.100	#	-	-
	mg/L	0816	06/08/1999	0001	AL	N	7.440	#	-	-
	mg/L	0819	06/08/1999	0001	KM	N	10.100	L #	-	-
	mg/L	0820	06/04/1999	0001	KM	N	13.700	L #	-	-
	mg/L	0824	06/08/1999	0001	KM	N	23.600	L #	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)

REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Strontium	mg/L	0826	06/08/1999	0001	AL	N	11.100			#	-	-
	mg/L	0827	06/08/1999	0001	AL	N	7.750	L		#	-	-
	mg/L	0828	06/08/1999	0001	AL	N	4.040			#	-	-
	mg/L	0830	06/08/1999	0001	KM	N	0.208			#	-	-
	mg/L	0832	06/05/1999	0001	AL	N	6.580			#	-	-
	mg/L	0833	06/04/1999	0001	AL	N	8.700			#	-	-
	mg/L	0835	06/04/1999	0001	AL	N	3.150			#	-	-
	mg/L	0835	06/04/1999	0002	AL	N	3.130			#	-	-
	mg/L	0836	06/03/1999	0001	AL	N	6.200			#	-	-
	mg/L	0837	06/03/1999	0001	AL	N	4.690			#	-	-
	mg/L	0838	06/04/1999	0001	AL	N	4.630			#	-	-
	mg/L	0839	06/08/1999	0001	AL	N	10.300		L	#	-	-
	mg/L	0841	06/04/1999	0001	AL	N	7.860			#	-	-
	mg/L	0843	06/03/1999	0001	AL	N	5.290			#	-	-
	mg/L	0844	06/05/1999	0001	AL	N	6.340			#	-	-
	mg/L	0846	06/04/1999	0001	AL	N	6.020			#	-	-
	mg/L	0847	06/03/1999	0001	AL	N	4.390			#	-	-
	mg/L	0847	06/03/1999	0002	AL	N	4.360			#	-	-
	mg/L	0848	06/03/1999	0001	AL	N	8.760			#	-	-
	Styrene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5
ug/L		0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
ug/L		0826	06/08/1999	N001	AL	N	5	U		#	5	-
ug/L		0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
ug/L		0828	06/08/1999	N001	AL	N	5	U		#	5	-
ug/L		0830	06/08/1999	N001	KM	N	5	U		#	5	-
Sulfate	mg/L	0600	06/04/1999	0001	KM	O	8600.000		L	#	-	-
	mg/L	0602	06/08/1999	0001	KM	O	17600.000			#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Sulfate	mg/L	0603	06/07/1999	0001	AL	N	8970.000		#	-	-	
	mg/L	0604	06/02/1999	0001	KM	N	9080.000	L	#	-	-	
	mg/L	0725	06/07/1999	0001	AL	N	3390.000		#	-	-	
	mg/L	0726	06/07/1999	0001	KM	N	5330.000		#	-	-	
	mg/L	0727	06/07/1999	0001	KM	N	12100.000		#	-	-	
	mg/L	0728	06/08/1999	0001	AL	N	2780.000		#	-	-	
	mg/L	0730	06/08/1999	0001	AL	N	2440.000	L	#	-	-	
	mg/L	0731	06/07/1999	0001	AL	N	5320.000		#	-	-	
	mg/L	0812	06/08/1999	0001	AL	N	14900.000	L	#	-	-	
	mg/L	0813	06/07/1999	0001	AL	N	11200.000		#	-	-	
	mg/L	0814	06/08/1999	0001	AL	N	13500.000	L	#	-	-	
	mg/L	0815	06/08/1999	0001	AL	N	14200.000		#	-	-	
	mg/L	0816	06/08/1999	0001	AL	N	4560.000		#	-	-	
	mg/L	0819	06/08/1999	0001	KM	N	12400.000	L	#	-	-	
	mg/L	0820	06/04/1999	0001	KM	N	7190.000	L	#	-	-	
	mg/L	0824	06/08/1999	0001	KM	N	7850.000	L	#	-	-	
	mg/L	0826	06/08/1999	0001	AL	N	12800.000		#	-	-	
	mg/L	0827	06/08/1999	0001	AL	N	4290.000	L	#	-	-	
	mg/L	0828	06/08/1999	0001	AL	N	1640.000		#	-	-	
	mg/L	0830	06/08/1999	0001	KM	N	1790.000		#	-	-	
	mg/L	0832	06/05/1999	0001	AL	N	5900.000		#	-	-	
	mg/L	0833	06/04/1999	0001	AL	N	5590.000		#	-	-	
	mg/L	0835	06/04/1999	0001	AL	N	1260.000		#	-	-	
	mg/L	0835	06/04/1999	0002	AL	N	1260.000		#	-	-	
	mg/L	0836	06/03/1999	0001	AL	N	2910.000		#	-	-	
	mg/L	0837	06/03/1999	0001	AL	N	1680.000		#	-	-	
	mg/L	0838	06/04/1999	0001	AL	N	1770.000		#	-	-	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Sulfate	mg/L	0839	06/08/1999	0001	AL	N	9950.000	L #	-	-
	mg/L	0841	06/04/1999	0001	AL	N	14200.000	#	-	-
	mg/L	0843	06/03/1999	0001	AL	N	1940.000	#	-	-
	mg/L	0844	06/05/1999	0001	AL	N	2920.000	#	-	-
	mg/L	0846	06/04/1999	0001	AL	N	2570.000	#	-	-
	mg/L	0847	06/03/1999	0001	AL	N	1630.000	#	-	-
	mg/L	0847	06/03/1999	0002	AL	N	1630.000	#	-	-
	mg/L	0848	06/03/1999	0001	AL	N	5330.000	#	-	-
Temperature	C	0600	06/04/1999	N001	KM	O	16.4	L #	-	-
	C	0602	06/08/1999	N001	KM	O	18.0	#	-	-
	C	0603	06/07/1999	N001	AL	N	17.0	#	-	-
	C	0604	06/02/1999	N001	KM	N	17.7	L #	-	-
	C	0725	06/07/1999	N001	AL	N	14.6	#	-	-
	C	0726	06/07/1999	N001	KM	N	15.6	#	-	-
	C	0727	06/07/1999	N001	KM	N	16.2	#	-	-
	C	0728	06/08/1999	N001	AL	N	15.3	#	-	-
	C	0730	06/08/1999	N001	AL	N	15.3	L #	-	-
	C	0731	06/07/1999	N001	AL	N	14.7	#	-	-
	C	0812	06/08/1999	N001	AL	N	15.9	L #	-	-
	C	0813	06/07/1999	N001	AL	N	16.3	#	-	-
	C	0814	06/08/1999	N001	AL	N	16.6	L #	-	-
	C	0815	06/08/1999	N001	AL	N	16.7	#	-	-
	C	0816	06/08/1999	N001	AL	N	15.7	#	-	-
	C	0819	06/08/1999	N001	KM	N	16.7	L #	-	-
	C	0820	06/04/1999	N001	KM	N	17.1	L #	-	-
	C	0824	06/08/1999	N001	KM	N	20.3	L #	-	-
C	0826	06/08/1999	N001	AL	N	16.6	#	-	-	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)

REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA		DETECTION LIMIT	UN-CERTAINTY	
Temperature	C	0827	06/08/1999	N001	AL	N	16.6	L	#	-	-	
	C	0828	06/08/1999	N001	AL	N	18.1		#	-	-	
	C	0830	06/08/1999	N001	KM	N	18.1		#	-	-	
	C	0832	06/05/1999	N001	AL	N	15.4		#	-	-	
	C	0833	06/04/1999	N001	AL	N	15.0		#	-	-	
	C	0835	06/04/1999	N001	AL	N	15.1		#	-	-	
	C	0836	06/03/1999	N001	AL	N	14.9		#	-	-	
	C	0837	06/03/1999	N001	AL	N	13.4		#	-	-	
	C	0838	06/04/1999	N001	AL	N	15.4		#	-	-	
	C	0839	06/08/1999	N001	AL	N	19.4	L	#	-	-	
	C	0841	06/04/1999	N001	AL	N	16.6		#	-	-	
	C	0843	06/03/1999	N001	AL	N	13.0		#	-	-	
	C	0844	06/05/1999	N001	AL	N	15.2		#	-	-	
	C	0846	06/04/1999	N001	AL	N	14.9		#	-	-	
	C	0847	06/03/1999	N001	AL	N	16.0		#	-	-	
C	0848	06/03/1999	N001	AL	N	17.1		#	-	-		
tert-Butylbenzene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
Tetrachloroethene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)

REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Tetrachloroethene	ug/L	0830	06/08/1999	N001	KM	N	5	U #	5	-
Toluene	ug/L	0819	06/08/1999	N001	KM	N	5	U L #	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U L #	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U #	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U L #	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U #	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U #	5	-
Total 1,2-Dichloroethene	ug/L	0819	06/08/1999	N001	KM	N	5	U L #	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U L #	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U #	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U L #	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U #	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U #	5	-
Total Dissolved Solids	mg/L	0600	06/04/1999	0001	KM	O	14100	L #	-	-
	mg/L	0602	06/08/1999	0001	KM	O	29000	#	-	-
	mg/L	0603	06/07/1999	0001	AL	N	14300	#	-	-
	mg/L	0604	06/02/1999	0001	KM	N	25200	L #	-	-
	mg/L	0725	06/07/1999	0001	AL	N	5960	#	-	-
	mg/L	0726	06/07/1999	0001	KM	N	9390	#	-	-
	mg/L	0727	06/07/1999	0001	KM	N	23000	#	-	-
	mg/L	0728	06/08/1999	0001	AL	N	4700	#	-	-
	mg/L	0730	06/08/1999	0001	AL	N	3800	L #	-	-
	mg/L	0731	06/07/1999	0001	AL	N	11300	#	-	-
	mg/L	0812	06/08/1999	0001	AL	N	35000	L #	-	-
	mg/L	0813	06/07/1999	0001	AL	N	28200	#	-	-
	mg/L	0814	06/08/1999	0001	AL	N	26800	L #	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Total Dissolved Solids	mg/L	0815	06/08/1999	0001	AL	N	26700			#	-	-
	mg/L	0816	06/08/1999	0001	AL	N	8410			#	-	-
	mg/L	0819	06/08/1999	0001	KM	N	22900		L	#	-	-
	mg/L	0820	06/04/1999	0001	KM	N	15700		L	#	-	-
	mg/L	0824	06/08/1999	0001	KM	N	22700		L	#	-	-
	mg/L	0826	06/08/1999	0001	AL	N	23100			#	-	-
	mg/L	0827	06/08/1999	0001	AL	N	9080		L	#	-	-
	mg/L	0828	06/08/1999	0001	AL	N	4080			#	-	-
	mg/L	0830	06/08/1999	0001	KM	N	2900			#	-	-
	mg/L	0832	06/05/1999	0001	AL	N	12500			#	-	-
	mg/L	0833	06/04/1999	0001	AL	N	10600			#	-	-
	mg/L	0835	06/04/1999	0001	AL	N	2290			#	-	-
	mg/L	0835	06/04/1999	0002	AL	N	2260			#	-	-
	mg/L	0836	06/03/1999	0001	AL	N	5230			#	-	-
	mg/L	0837	06/03/1999	0001	AL	N	3050			#	-	-
	mg/L	0838	06/04/1999	0001	AL	N	3080			#	-	-
	mg/L	0839	06/08/1999	0001	AL	N	18800		L	#	-	-
	mg/L	0841	06/04/1999	0001	AL	N	22100			#	-	-
	mg/L	0843	06/03/1999	0001	AL	N	3200			#	-	-
	mg/L	0844	06/05/1999	0001	AL	N	5460			#	-	-
	mg/L	0846	06/04/1999	0001	AL	N	5070			#	-	-
	mg/L	0847	06/03/1999	0001	AL	N	2810			#	-	-
	mg/L	0847	06/03/1999	0002	AL	N	2840			#	-	-
mg/L	0848	06/03/1999	0001	AL	N	10600			#	-	-	
Total Kjeldahl Nitrogen	mg/L	0835	06/04/1999	0001	AL	N	0.142	B	U	#	-	-
	mg/L	0835	06/04/1999	0002	AL	N	0.249	B	U	#	-	-
	mg/L	0836	06/03/1999	0001	AL	N	0.646	B		#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)

REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Total Kjeldahl Nitrogen	mg/L	0848	06/04/1999	0001	AL	N	0.576	B	U	#	-	-
Total Xylenes	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
trans-1,2-Dichloroethene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
trans-1,3-dichloropropene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
Trichloroethene	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U	L	#	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U	L	#	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U		#	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U		#	5	-
Trichlorofluoromethane	ug/L	0819	06/08/1999	N001	KM	N	5	U	L	#	5	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Trichlorofluoromethane	ug/L	0824	06/08/1999	N001	KM	N	5	U L #	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U #	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U L #	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U #	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U #	5	-
Trichlorotrifluoroethane	ug/L	0819	06/08/1999	N001	KM	N	5	U L #	5	-
	ug/L	0824	06/08/1999	N001	KM	N	5	U L #	5	-
	ug/L	0826	06/08/1999	N001	AL	N	5	U #	5	-
	ug/L	0827	06/08/1999	N001	AL	N	5	U L #	5	-
	ug/L	0828	06/08/1999	N001	AL	N	5	U #	5	-
	ug/L	0830	06/08/1999	N001	KM	N	5	U #	5	-
Turbidity	NTU	0600	06/04/1999	N001	KM	O	9.27	L #	-	-
	NTU	0602	06/08/1999	N001	KM	O	8.78	#	-	-
	NTU	0603	06/07/1999	N001	AL	N	5.64	#	-	-
	NTU	0604	06/02/1999	N001	KM	N	578	L #	-	-
	NTU	0725	06/07/1999	N001	AL	N	3.91	#	-	-
	NTU	0726	06/07/1999	N001	KM	N	7.08	#	-	-
	NTU	0727	06/07/1999	N001	KM	N	91.4	#	-	-
	NTU	0728	06/08/1999	N001	AL	N	1.20	#	-	-
	NTU	0730	06/08/1999	N001	AL	N	5.33	L #	-	-
	NTU	0731	06/07/1999	N001	AL	N	42.9	#	-	-
	NTU	0812	06/08/1999	N001	AL	N	90.1	L #	-	-
	NTU	0813	06/07/1999	N001	AL	N	4.83	#	-	-
	NTU	0814	06/08/1999	N001	AL	N	446	L #	-	-
	NTU	0815	06/08/1999	N001	AL	N	4.09	#	-	-
	NTU	0816	06/08/1999	N001	AL	N	43.2	#	-	-
NTU	0819	06/08/1999	N001	KM	N	11.2	L #	-	-	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Turbidity	NTU	0820	06/04/1999	N001	KM	N	1000	>	L	#	-	-
	NTU	0824	06/08/1999	N001	KM	N	27.5		L	#	-	-
	NTU	0826	06/08/1999	N001	AL	N	12.4			#	-	-
	NTU	0827	06/08/1999	N001	AL	N	15.6		L	#	-	-
	NTU	0828	06/08/1999	N001	AL	N	3.82			#	-	-
	NTU	0830	06/08/1999	N001	KM	N	240			#	-	-
	NTU	0832	06/05/1999	N001	AL	N	1000	>		#	-	-
	NTU	0833	06/04/1999	N001	AL	N	8.28			#	-	-
	NTU	0835	06/04/1999	N001	AL	N	8.16			#	-	-
	NTU	0836	06/03/1999	N001	AL	N	13.6			#	-	-
	NTU	0837	06/03/1999	N001	AL	N	39.8			#	-	-
	NTU	0838	06/04/1999	N001	AL	N	7.30			#	-	-
	NTU	0839	06/08/1999	N001	AL	N	84.7		L	#	-	-
	NTU	0841	06/04/1999	N001	AL	N	27.8			#	-	-
	NTU	0843	06/03/1999	N001	AL	N	8.1			#	-	-
	NTU	0844	06/05/1999	N001	AL	N	9.16			#	-	-
	NTU	0846	06/04/1999	N001	AL	N	5.96			#	-	-
	NTU	0847	06/03/1999	N001	AL	N	0.95			#	-	-
	NTU	0848	06/03/1999	N001	AL	N	2.22			#	-	-
	Uranium	mg/L	0600	06/04/1999	0001	KM	O	1.200		L	#	-
mg/L		0602	06/08/1999	0001	KM	O	0.836			#	-	-
mg/L		0603	06/07/1999	0001	AL	N	0.0111			#	-	-
mg/L		0604	06/02/1999	0001	KM	N	0.0659		L	#	-	-
mg/L		0725	06/07/1999	0001	AL	N	0.321			#	-	-
mg/L		0726	06/07/1999	0001	KM	N	0.0262			#	-	-
mg/L		0727	06/07/1999	0001	KM	N	0.313			#	-	-
mg/L		0728	06/08/1999	0001	AL	N	0.174			#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID				LAB	DATA	QA		
Uranium	mg/L	0730	06/08/1999	0001	AL	N	0.0030	L	#	-	-	
	mg/L	0731	06/07/1999	0001	AL	N	0.0568		#	-	-	
	mg/L	0812	06/08/1999	0001	AL	N	0.121	L	#	-	-	
	mg/L	0813	06/07/1999	0001	AL	N	0.145		#	-	-	
	mg/L	0814	06/08/1999	0001	AL	N	0.125	L	#	-	-	
	mg/L	0815	06/08/1999	0001	AL	N	0.332		#	-	-	
	mg/L	0816	06/08/1999	0001	AL	N	0.0663		#	-	-	
	mg/L	0819	06/08/1999	0001	KM	N	1.570	L	#	-	-	
	mg/L	0820	06/04/1999	0001	KM	N	0.190	L	#	-	-	
	mg/L	0824	06/08/1999	0001	KM	N	0.0414	L	#	-	-	
	mg/L	0826	06/08/1999	0001	AL	N	3.400		#	-	-	
	mg/L	0827	06/08/1999	0001	AL	N	0.873	L	#	-	-	
	mg/L	0828	06/08/1999	0001	AL	N	0.324		#	-	-	
	mg/L	0830	06/08/1999	0001	KM	N	0.0076		#	-	-	
	mg/L	0832	06/05/1999	0001	AL	N	0.0644		#	-	-	
	mg/L	0833	06/04/1999	0001	AL	N	0.128		#	-	-	
	mg/L	0835	06/04/1999	0001	AL	N	0.0283		#	-	-	
	mg/L	0835	06/04/1999	0002	AL	N	0.0280		#	-	-	
	mg/L	0836	06/03/1999	0001	AL	N	0.0563		#	-	-	
	mg/L	0837	06/03/1999	0001	AL	N	0.0353		#	-	-	
	mg/L	0838	06/04/1999	0001	AL	N	0.0335		#	-	-	
	mg/L	0839	06/08/1999	0001	AL	N	0.378	L	#	-	-	
	mg/L	0841	06/04/1999	0001	AL	N	0.0900		#	-	-	
	mg/L	0843	06/03/1999	0001	AL	N	0.0314		#	-	-	
	mg/L	0844	06/05/1999	0001	AL	N	0.0484		#	-	-	
	mg/L	0846	06/04/1999	0001	AL	N	0.0435		#	-	-	
	mg/L	0847	06/03/1999	0001	AL	N	0.0274		#	-	-	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA			DETECTION LIMIT	UN-CERTAINTY
Uranium	mg/L	0847	06/03/1999	0002	AL	N	0.0275			#	-	-
	mg/L	0848	06/03/1999	0001	AL	N	0.0551			#	-	-
Vanadium	mg/L	0600	06/04/1999	0001	KM	O	0.00060	U	L	#	0.0006	-
	mg/L	0602	06/08/1999	0001	KM	O	0.00060	U		#	0.0006	-
	mg/L	0603	06/07/1999	0001	AL	N	0.115			#	-	-
	mg/L	0604	06/02/1999	0001	KM	N	0.00060	U	L	#	0.0006	-
	mg/L	0725	06/07/1999	0001	AL	N	0.0210			#	-	-
	mg/L	0726	06/07/1999	0001	KM	N	0.00060	U		#	0.0006	-
	mg/L	0727	06/07/1999	0001	KM	N	0.00060	U		#	0.0006	-
	mg/L	0728	06/08/1999	0001	AL	N	0.00060	U		#	0.0006	-
	mg/L	0730	06/08/1999	0001	AL	N	0.887		L	#	-	-
	mg/L	0731	06/07/1999	0001	AL	N	0.00060	U		#	0.0006	-
	mg/L	0812	06/08/1999	0001	AL	N	0.00060	U	L	#	0.0006	-
	mg/L	0813	06/07/1999	0001	AL	N	0.00060	U		#	0.0006	-
	mg/L	0814	06/08/1999	0001	AL	N	0.00060	U	L	#	0.0006	-
	mg/L	0815	06/08/1999	0001	AL	N	0.00060	U		#	0.0006	-
	mg/L	0816	06/08/1999	0001	AL	N	0.00060	U		#	0.0006	-
	mg/L	0819	06/08/1999	0001	KM	N	0.00060	U	L	#	0.0006	-
	mg/L	0820	06/04/1999	0001	KM	N	0.00060	U	L	#	0.0006	-
	mg/L	0824	06/08/1999	0001	KM	N	0.00060	U	L	#	0.0006	-
	mg/L	0826	06/08/1999	0001	AL	N	0.00060	U		#	0.0006	-
	mg/L	0827	06/08/1999	0001	AL	N	0.00060	U	L	#	0.0006	-
	mg/L	0828	06/08/1999	0001	AL	N	0.00060	U		#	0.0006	-
	mg/L	0830	06/08/1999	0001	KM	N	0.192			#	-	-
	mg/L	0832	06/05/1999	0001	AL	N	0.00060	U		#	0.0006	-
mg/L	0833	06/04/1999	0001	AL	N	0.00060	U		#	0.0006	-	
mg/L	0835	06/04/1999	0001	AL	N	0.00060	U		#	0.0006	-	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)

REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA			DETECTION LIMIT	UN-CERTAINTY
Vanadium	mg/L	0835	06/04/1999	0002	AL	N	0.00060	U		#	0.0006	-
	mg/L	0836	06/03/1999	0001	AL	N	0.00060	U		#	0.0006	-
	mg/L	0837	06/03/1999	0001	AL	N	0.00080	B		#	-	-
	mg/L	0838	06/04/1999	0001	AL	N	0.00060	U		#	0.0006	-
	mg/L	0839	06/08/1999	0001	AL	N	0.00060	U	L	#	0.0006	-
	mg/L	0841	06/04/1999	0001	AL	N	0.00060	U		#	0.0006	-
	mg/L	0843	06/03/1999	0001	AL	N	0.00060	U		#	0.0006	-
	mg/L	0844	06/05/1999	0001	AL	N	0.00060	U		#	0.0006	-
	mg/L	0846	06/04/1999	0001	AL	N	0.00060	U		#	0.0006	-
	mg/L	0847	06/03/1999	0001	AL	N	0.00060	U		#	0.0006	-
	mg/L	0847	06/03/1999	0002	AL	N	0.00060	U		#	0.0006	-
	mg/L	0848	06/03/1999	0001	AL	N	0.00060	U		#	0.0006	-
Vinyl chloride	ug/L	0819	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0824	06/08/1999	N001	KM	N	10	U	L	#	10	-
	ug/L	0826	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0827	06/08/1999	N001	AL	N	10	U	L	#	10	-
	ug/L	0828	06/08/1999	N001	AL	N	10	U		#	10	-
	ug/L	0830	06/08/1999	N001	KM	N	10	U		#	10	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:25 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	ZONE COMPL	FLOW REL.	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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RECORDS: SELECTED FROM USEE200 WHERE site_code='SHP02' AND quality_assurance = TRUE AND (NOT (data_validation_qualifiers LIKE "X") OR IsNull(data_validation_qualifiers)) AND DATE_SAMPLED between #6/1/1999# and #6/30/1999#

SAMPLE ID CODES: 000X = Filtered sample (0.45 µm). N00X = Unfiltered sample. X = replicate number.

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.

DATA QUALIFIERS:

- J Estimated value.
- L Less than 3 bore volumes purged prior to sampling.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- R Unusable result.
- G Possible grout contamination, pH > 9.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:37 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		RESULT	QUALIFIERS:				
			DATE	ID		LAB	DATA	QA	DETECTION LIMIT	UN- CERTAINTY
Alkalinity as CaCO3	mg/L	0546	06/02/1999	0001	72	#	-	-		
	mg/L	0546	06/02/1999	N001	75	#	-	-		
	mg/L	0548	06/07/1999	0001	77	#	-	-		
	mg/L	0548	06/07/1999	N001	78	#	-	-		
	mg/L	0553	06/05/1999	0001	77	#	-	-		
	mg/L	0553	06/05/1999	N001	84	#	-	-		
	mg/L	0555	06/04/1999	0001	63	#	-	-		
	mg/L	0555	06/04/1999	N001	64	#	-	-		
	mg/L	0655	06/06/1999	0001	140	#	-	-		
	mg/L	0655	06/06/1999	N001	134	#	-	-		
	mg/L	0657	06/06/1999	0001	596	#	-	-		
	mg/L	0657	06/06/1999	N001	597	#	-	-		
	mg/L	0658	06/06/1999	0001	98	#	-	-		
	mg/L	0658	06/06/1999	N001	100	#	-	-		
	mg/L	0887	06/03/1999	0001	75	#	-	-		
	mg/L	0887	06/03/1999	N001	73	#	-	-		
	mg/L	0888	06/06/1999	0001	72	#	-	-		
	mg/L	0888	06/06/1999	N001	84	#	-	-		
	mg/L	0893	06/05/1999	0001	63	#	-	-		
	mg/L	0893	06/05/1999	N001	61	#	-	-		
	mg/L	0894	06/06/1999	0001	134	#	-	-		
	mg/L	0894	06/06/1999	N001	132	#	-	-		
	mg/L	0895	06/05/1999	0001	74	#	-	-		
	mg/L	0895	06/05/1999	N001	71	#	-	-		
	mg/L	0896	06/05/1999	0001	74	#	-	-		
	mg/L	0896	06/05/1999	N001	71	#	-	-		
	mg/L	0897	06/07/1999	0001	61	#	-	-		
	mg/L	0897	06/07/1999	N001	63	#	-	-		
	mg/L	0898	06/06/1999	0001	73	#	-	-		
	mg/L	0898	06/06/1999	N001	71	#	-	-		
	mg/L	0939	06/04/1999	0001	76	#	-	-		
	mg/L	0939	06/04/1999	N001	73	#	-	-		
	mg/L	0940	06/06/1999	0001	74	#	-	-		
mg/L	0940	06/06/1999	N001	74	#	-	-			
mg/L	0941	06/06/1999	0001	74	#	-	-			
mg/L	0941	06/06/1999	N001	69	#	-	-			
Antimony	mg/L	0546	06/02/1999	0001	0.0005	B	U	#	-	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:37 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY	
Antimony	mg/L	0548	08/07/1999	0001	0.0004	B U #	-	-	
	mg/L	0553	08/05/1999	0001	0.0011	B U #	-	-	
	mg/L	0555	08/04/1999	0001	0.0022	B U #	-	-	
	mg/L	0655	08/08/1999	0001	0.0013	B U #	-	-	
	mg/L	0657	08/06/1999	0001	0.0082	U #	-	-	
	mg/L	0658	08/06/1999	0001	0.0012	B U #	-	-	
	mg/L	0887	08/03/1999	0001	0.0003	B U #	-	-	
	mg/L	0888	08/06/1999	0001	0.0003	B U #	-	-	
	mg/L	0893	08/05/1999	0001	0.0004	B U #	-	-	
	mg/L	0894	08/06/1999	0001	0.0013	B U #	-	-	
	mg/L	0895	08/05/1999	0001	0.0011	B U #	-	-	
	mg/L	0896	08/05/1999	0001	0.0011	B U #	-	-	
	mg/L	0897	08/07/1999	0001	0.0006	B U #	-	-	
	mg/L	0898	08/06/1999	0001	0.0003	B U #	-	-	
	mg/L	0939	08/04/1999	0001	0.0004	B U #	-	-	
	mg/L	0939	08/04/1999	0002	0.0003	B U #	-	-	
	mg/L	0940	08/06/1999	0001	0.0004	B U #	-	-	
	mg/L	0941	08/06/1999	0001	0.0003	B U #	-	-	
	Arsenic	mg/L	0546	08/02/1999	0001	0.0010	U #	0.001	-
		mg/L	0548	08/07/1999	0001	0.0010	UN J #	0.001	-
mg/L		0553	08/05/1999	0001	0.0010	U #	0.001	-	
mg/L		0555	08/04/1999	0001	0.0010	U #	0.001	-	
mg/L		0655	08/08/1999	0001	0.0010	U #	0.001	-	
mg/L		0657	08/06/1999	0001	0.0010	U #	0.001	-	
mg/L		0658	08/06/1999	0001	0.0010	U #	0.001	-	
mg/L		0887	08/03/1999	0001	0.0010	U #	0.001	-	
mg/L		0888	08/06/1999	0001	0.0010	U #	0.001	-	
mg/L		0893	08/05/1999	0001	0.0010	U #	0.001	-	
mg/L		0894	08/06/1999	0001	0.0010	U #	0.001	-	
mg/L		0895	08/05/1999	0001	0.0010	U #	0.001	-	
mg/L		0896	08/05/1999	0001	0.0010	U #	0.001	-	
mg/L		0897	08/07/1999	0001	0.0010	UN J #	0.001	-	
mg/L		0898	08/06/1999	0001	0.0010	U #	0.001	-	
mg/L		0939	08/04/1999	0001	0.0010	U #	0.001	-	
mg/L		0939	08/04/1999	0002	0.0010	U #	0.001	-	
mg/L		0940	08/06/1999	0001	0.0010	U #	0.001	-	
mg/L		0941	08/06/1999	0001	0.0010	U #	0.001	-	

SURFACE WATER QUALITY DATA BY PARAMETER (USE800) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:37 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Cadmium	mg/L	0546	06/02/1999	0001	0.0003	U #	0.0003	-
	mg/L	0548	06/07/1999	0001	0.0003	U #	0.0003	-
	mg/L	0553	06/05/1999	0001	0.0003	U #	0.0003	-
	mg/L	0555	06/04/1999	0001	0.0003	U #	0.0003	-
	mg/L	0655	06/06/1999	0001	0.0003	U #	0.0003	-
	mg/L	0657	06/06/1999	0001	0.0003	U #	0.0003	-
	mg/L	0658	06/06/1999	0001	0.0003	U #	0.0003	-
	mg/L	0887	06/03/1999	0001	0.0003	U #	0.0003	-
	mg/L	0888	06/06/1999	0001	0.0003	U #	0.0003	-
	mg/L	0893	06/05/1999	0001	0.0003	U #	0.0003	-
	mg/L	0894	06/06/1999	0001	0.0003	U #	0.0003	-
	mg/L	0895	06/05/1999	0001	0.0003	U #	0.0003	-
	mg/L	0896	06/05/1999	0001	0.0003	U #	0.0003	-
	mg/L	0897	06/07/1999	0001	0.0003	U #	0.0003	-
	mg/L	0898	06/06/1999	0001	0.0003	U #	0.0003	-
	mg/L	0939	06/04/1999	0001	0.0003	U #	0.0003	-
	mg/L	0939	06/04/1999	0002	0.0003	U #	0.0003	-
	mg/L	0940	06/06/1999	0001	0.0003	U #	0.0003	-
	mg/L	0941	06/06/1999	0001	0.0003	U #	0.0003	-
	Calcium	mg/L	0546	06/02/1999	0001	30.100	#	-
mg/L		0548	06/07/1999	0001	30.600	#	-	-
mg/L		0553	06/05/1999	0001	28.700	#	-	-
mg/L		0555	06/04/1999	0001	29.100	#	-	-
mg/L		0655	06/06/1999	0001	103.000	#	-	-
mg/L		0657	06/06/1999	0001	385.000	#	-	-
mg/L		0658	06/06/1999	0001	127.000	#	-	-
mg/L		0887	06/03/1999	0001	28.700	#	-	-
mg/L		0888	06/06/1999	0001	30.000	#	-	-
mg/L		0893	06/05/1999	0001	30.100	#	-	-
mg/L		0894	06/06/1999	0001	97.100	#	-	-
mg/L		0895	06/05/1999	0001	29.800	#	-	-
mg/L		0896	06/05/1999	0001	29.000	#	-	-
mg/L		0897	06/07/1999	0001	31.300	#	-	-
mg/L		0898	06/06/1999	0001	29.200	#	-	-
mg/L		0939	06/04/1999	0001	30.400	#	-	-
mg/L		0939	06/04/1999	0002	31.300	#	-	-
mg/L		0940	06/06/1999	0001	29.400	#	-	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:37 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Calcium	mg/L	0941	06/06/1999	0001	23.900	#	-	-
Chloride	mg/L	0546	06/02/1999	0001	3.410	#	-	-
	mg/L	0548	06/07/1999	0001	3.600	#	-	-
	mg/L	0553	06/05/1999	0001	3.250	#	-	-
	mg/L	0555	06/04/1999	0001	3.290	#	-	-
	mg/L	0655	06/06/1999	0001	35.800	#	-	-
	mg/L	0657	06/06/1999	0001	300.000	#	-	-
	mg/L	0658	06/06/1999	0001	55.900	#	-	-
	mg/L	0887	06/03/1999	0001	2.830	#	-	-
	mg/L	0888	06/06/1999	0001	3.040	#	-	-
	mg/L	0893	06/05/1999	0001	2.920	#	-	-
	mg/L	0894	06/06/1999	0001	33.300	#	-	-
	mg/L	0895	06/05/1999	0001	3.100	#	-	-
	mg/L	0896	06/05/1999	0001	4.460	#	-	-
	mg/L	0897	06/07/1999	0001	3.970	#	-	-
	mg/L	0898	06/06/1999	0001	3.220	#	-	-
	mg/L	0939	06/04/1999	0001	3.080	#	-	-
	mg/L	0939	06/04/1999	0002	3.210	#	-	-
	mg/L	0940	06/06/1999	0001	3.370	#	-	-
mg/L	0941	06/06/1999	0001	3.450	#	-	-	
Gross Alpha	pCi/L	0546	06/02/1999	0001	1.11	U J #	1.11	± 0.60
	pCi/L	0548	06/07/1999	0001	2.36	U #	2.36	± 1.30
	pCi/L	0553	06/05/1999	0001	2.24	U #	2.24	± 1.29
	pCi/L	0555	06/04/1999	0001	2.26	U #	2.26	± 1.23
	pCi/L	0655	06/06/1999	0001	10.93	UJ #	10.21	± 7.50
	pCi/L	0657	06/06/1999	0001	90.79	U J #	90.79	± 60.8
	pCi/L	0658	06/06/1999	0001	18.48	U J #	18.48	± 6.77
	pCi/L	0887	06/03/1999	0001	1.21	U J #	1.21	± 0.57
	pCi/L	0888	06/06/1999	0001	2.25	U #	2.25	± 1.27
	pCi/L	0893	06/05/1999	0001	2.21	U #	2.21	± 1.15
	pCi/L	0894	06/06/1999	0001	9.32	U J #	9.32	± 5.57
	pCi/L	0895	06/05/1999	0001	2.22	U #	2.22	± 1.20
	pCi/L	0896	06/05/1999	0001	1.65	UJ #	1.56	± 1.14
	pCi/L	0897	06/07/1999	0001	2.32	U #	2.23	± 1.50
	pCi/L	0898	06/06/1999	0001	2.24	U #	2.24	± 1.20
	pCi/L	0939	06/04/1999	0001	2.25	U #	2.25	± 1.40
	pCi/L	0939	06/04/1999	0002	2.26	U #	2.26	± 1.14

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:37 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Gross Alpha	pCi/L	0940	06/06/1999	0001	2.29	U #	2.29	± 1.35
	pCi/L	0941	06/06/1999	0001	2.27	U #	2.27	± 1.37
Gross Beta	pCi/L	0546	06/02/1999	0001	1.81	U #	1.81	± 1.11
	pCi/L	0548	06/07/1999	0001	2.45	U #	2.45	± 1.50
	pCi/L	0553	06/05/1999	0001	2.43	U #	2.43	± 1.43
	pCi/L	0555	06/04/1999	0001	2.43	U #	2.43	± 1.46
	pCi/L	0655	06/06/1999	0001	13.24	U #	13.24	± 7.81
	pCi/L	0657	06/06/1999	0001	115.77	U #	115.77	± 68.8
	pCi/L	0658	06/06/1999	0001	23.05	U #	23.05	± 13.4
	pCi/L	0887	06/03/1999	0001	1.82	U #	1.82	± 1.12
	pCi/L	0888	06/06/1999	0001	2.43	U #	2.43	± 1.44
	pCi/L	0893	06/05/1999	0001	2.42	U #	2.42	± 1.48
	pCi/L	0894	06/06/1999	0001	11.70	U #	11.58	± 7.19
	pCi/L	0895	06/05/1999	0001	2.43	U #	2.43	± 1.45
	pCi/L	0896	06/05/1999	0001	3.47	U #	2.3	± 1.48
	pCi/L	0897	06/07/1999	0001	4.55	U #	2.45	± 1.63
	pCi/L	0898	06/06/1999	0001	2.43	U #	2.43	± 1.45
	pCi/L	0939	06/04/1999	0001	2.44	U #	2.44	± 1.45
	pCi/L	0939	06/04/1999	0002	2.43	U #	2.43	± 1.47
	pCi/L	0940	06/06/1999	0001	2.44	U #	2.44	± 1.50
pCi/L	0941	06/06/1999	0001	2.44	U #	2.44	± 1.44	
Iron	mg/L	0546	06/02/1999	0001	0.0357	U #	-	-
	mg/L	0548	06/07/1999	0001	0.0226	B #	-	-
	mg/L	0553	06/05/1999	0001	0.0480	U #	-	-
	mg/L	0555	06/04/1999	0001	0.0396	U #	-	-
	mg/L	0655	06/06/1999	0001	0.0224	B U #	-	-
	mg/L	0657	06/06/1999	0001	0.0417	U #	-	-
	mg/L	0658	06/06/1999	0001	0.0840	U #	-	-
	mg/L	0887	06/03/1999	0001	0.0246	B U #	-	-
	mg/L	0888	06/06/1999	0001	0.0398	U #	-	-
	mg/L	0893	06/05/1999	0001	0.0435	U #	-	-
	mg/L	0894	06/06/1999	0001	0.0328	U #	-	-
	mg/L	0895	06/05/1999	0001	0.0865	U #	-	-
	mg/L	0896	06/05/1999	0001	0.0449	U #	-	-
	mg/L	0897	06/07/1999	0001	0.0327	U #	-	-
	mg/L	0898	06/06/1999	0001	0.0404	U #	-	-
mg/L	0939	06/04/1999	0001	0.0213	B U #	-	-	

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:37 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		RESULT	QUALIFIERS:		DETECTION LIMIT	UN- CERTAINTY
			DATE	ID		LAB DATA	QA		
Iron	mg/L	0939	08/04/1999	0002	0.0578	U	#	-	-
	mg/L	0940	06/06/1999	0001	0.0423	U	#	-	-
	mg/L	0941	06/06/1999	0001	0.0237 B	U	#	-	-
Magnesium	mg/L	0546	08/02/1999	0001	4.980		#	-	-
	mg/L	0548	06/07/1999	0001	5.270		#	-	-
	mg/L	0553	06/05/1999	0001	5.010		#	-	-
	mg/L	0555	06/04/1999	0001	5.090		#	-	-
	mg/L	0655	06/06/1999	0001	35.800		#	-	-
	mg/L	0657	06/06/1999	0001	352.000		#	-	-
	mg/L	0658	06/06/1999	0001	18.100		#	-	-
	mg/L	0887	06/03/1999	0001	4.830		#	-	-
	mg/L	0888	06/06/1999	0001	5.140		#	-	-
	mg/L	0893	06/05/1999	0001	5.090		#	-	-
	mg/L	0894	06/06/1999	0001	33.000		#	-	-
	mg/L	0895	06/05/1999	0001	5.120		#	-	-
	mg/L	0896	06/05/1999	0001	5.300		#	-	-
	mg/L	0897	06/07/1999	0001	5.520		#	-	-
	mg/L	0898	06/06/1999	0001	5.030		#	-	-
	mg/L	0939	06/04/1999	0001	5.060		#	-	-
	mg/L	0939	06/04/1999	0002	5.310		#	-	-
	mg/L	0940	06/06/1999	0001	5.160		#	-	-
mg/L	0941	06/06/1999	0001	4.160		#	-	-	
Manganese	mg/L	0546	08/02/1999	0001	0.0164		#	-	-
	mg/L	0548	06/07/1999	0001	0.0068 B		#	-	-
	mg/L	0553	06/05/1999	0001	0.0080 B		#	-	-
	mg/L	0555	06/04/1999	0001	0.0115		#	-	-
	mg/L	0655	06/06/1999	0001	0.347		#	-	-
	mg/L	0657	06/06/1999	0001	1.470		#	-	-
	mg/L	0658	06/06/1999	0001	0.0227		#	-	-
	mg/L	0887	06/03/1999	0001	0.0065 B		#	-	-
	mg/L	0888	06/06/1999	0001	0.0051 B		#	-	-
	mg/L	0893	06/05/1999	0001	0.0051 B		#	-	-
	mg/L	0894	06/06/1999	0001	0.526		#	-	-
	mg/L	0895	06/05/1999	0001	0.0091 B		#	-	-
mg/L	0896	06/05/1999	0001	0.0076 B		#	-	-	
mg/L	0897	06/07/1999	0001	0.0072 B		#	-	-	
mg/L	0898	06/06/1999	0001	0.0066 B		#	-	-	

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP01, SHIPROCK
REPORT DATE: 9/8/1999 2:37 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID		LAB	DATA	QA		
Manganese	mg/L	0939	06/04/1999	0001	0.0070	B		#	-	-
	mg/L	0939	06/04/1999	0002	0.0068	B		#	-	-
	mg/L	0940	06/06/1999	0001	0.0074	B		#	-	-
	mg/L	0941	06/06/1999	0001	0.0060	B		#	-	-
Nitrate	mg/L	0546	06/02/1999	0001	0.605	B		#	-	-
	mg/L	0548	06/07/1999	0001	0.420	B		#	-	-
	mg/L	0553	06/05/1999	0001	0.539	B		#	-	-
	mg/L	0555	06/04/1999	0001	0.803	B		#	-	-
	mg/L	0655	06/06/1999	0001	3.070			#	-	-
	mg/L	0657	06/06/1999	0001	0.104	B	U	#	-	-
	mg/L	0658	06/06/1999	0001	0.0331	B	U	#	-	-
	mg/L	0887	06/03/1999	0001	0.570	B		#	-	-
	mg/L	0888	06/06/1999	0001	0.462	B		#	-	-
	mg/L	0893	06/05/1999	0001	0.490	B		#	-	-
	mg/L	0894	06/06/1999	0001	2.880			#	-	-
	mg/L	0895	06/05/1999	0001	0.483	B		#	-	-
	mg/L	0896	06/05/1999	0001	0.975	B		#	-	-
	mg/L	0897	06/07/1999	0001	0.463	B		#	-	-
	mg/L	0898	06/06/1999	0001	0.451	B		#	-	-
	mg/L	0939	06/04/1999	0001	0.536	B		#	-	-
	mg/L	0939	06/04/1999	0002	0.533	B		#	-	-
	mg/L	0940	06/06/1999	0001	0.513	B		#	-	-
	mg/L	0941	06/06/1999	0001	0.516	B		#	-	-
	pH	s.u.	0546	06/02/1999	N001	8.0			#	
s.u.		0548	06/07/1999	N001	7.15			#		
s.u.		0553	06/05/1999	N001	8.15			#		
s.u.		0555	06/04/1999	N001	8.08			#		
s.u.		0655	06/06/1999	N001	7.58			#		
s.u.		0657	06/06/1999	N001	8.65			#		
s.u.		0658	06/06/1999	N001	6.44			#		
s.u.		0887	06/03/1999	N001	7.97			#		
s.u.		0888	06/06/1999	N001	7.27			#		
s.u.		0893	06/05/1999	N001	6.74			#		
s.u.		0894	06/06/1999	N001	7.62			#		
s.u.		0895	06/05/1999	N001	8.12			#		
s.u.		0896	06/05/1999	N001	8.18			#		
s.u.	0897	06/07/1999	N001	8.25			#			

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:37 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
pH	s.u.	0898	06/06/1999	N001	7.69	#	-	-
	s.u.	0939	06/04/1999	N001	6.90	#	-	-
	s.u.	0940	06/06/1999	N001	7.06	#	-	-
	s.u.	0941	06/06/1999	N001	7.14	#	-	-
Polonium-210	pCi/L	0546	06/02/1999	0001	0.34	U #	0.34	± -0.30
	pCi/L	0548	06/07/1999	0001	0.17	U #	0.17	± 0.17
	pCi/L	0553	06/05/1999	0001	0.29	U #	0.29	± 0.31
	pCi/L	0555	06/04/1999	0001	0.20	U #	0.2	± 0.18
	pCi/L	0655	06/06/1999	0001	0.19	U #	0.19	± 0.19
	pCi/L	0657	06/06/1999	0001	0.33	U #	0.33	± -0.28
	pCi/L	0658	06/06/1999	0001	0.40	U #	0.4	± 0.46
	pCi/L	0887	06/03/1999	0001	0.24	U #	0.24	± 0.24
	pCi/L	0888	06/06/1999	0001	0.25	U #	0.25	± 0.24
	pCi/L	0893	06/05/1999	0001	0.27	U #	0.27	± 0.29
	pCi/L	0894	06/06/1999	0001	0.11	U #	0.11	± 0.12
	pCi/L	0895	06/05/1999	0001	0.34	U #	0.34	± -0.30
	pCi/L	0896	06/05/1999	0001	0.25	U #	0.25	± 0.23
	pCi/L	0897	06/07/1999	0001	0.22	U #	0.22	± 0.21
	pCi/L	0898	06/06/1999	0001	0.26	U #	0.26	± -0.22
	pCi/L	0939	06/04/1999	0001	0.23	U #	0.23	± 0.23
	pCi/L	0939	06/04/1999	0002	0.16	U #	0.16	± 0.18
	pCi/L	0940	06/06/1999	0001	0.21	U #	0.21	± 0.19
	pCi/L	0941	06/06/1999	0001	0.17	U #	0.17	± 0.18
	Potassium	mg/L	0546	06/02/1999	0001	1.510	E J #	-
mg/L		0548	06/07/1999	0001	1.490	#	-	-
mg/L		0553	06/05/1999	0001	1.520	E #	-	-
mg/L		0555	06/04/1999	0001	1.640	E #	-	-
mg/L		0655	06/06/1999	0001	5.400	#	-	-
mg/L		0657	06/06/1999	0001	33.700	#	-	-
mg/L		0658	06/06/1999	0001	7.410	#	-	-
mg/L		0887	06/03/1999	0001	1.360	E J #	-	-
mg/L		0888	06/06/1999	0001	1.430	#	-	-
mg/L		0893	06/05/1999	0001	1.410	#	-	-
mg/L		0894	06/06/1999	0001	4.940	E #	-	-
mg/L		0895	06/05/1999	0001	1.580	E #	-	-
mg/L		0896	06/05/1999	0001	1.640	E #	-	-
mg/L		0897	06/07/1999	0001	1.520	#	-	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:37 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		RESULT	QUALIFIERS:		DETECTION LIMIT	UN- CERTAINTY
			DATE	ID		LAB	DATA QA		
Potassium	mg/L	0898	08/06/1999	0001	1.420		#	-	-
	mg/L	0939	06/04/1999	0001	1.510	E	J	#	-
	mg/L	0939	06/04/1999	0002	1.500	E	J	#	-
	mg/L	0940	06/06/1999	0001	1.480			#	-
	mg/L	0941	06/06/1999	0001	1.190			#	-
Radium-226	pCi/L	0546	06/02/1999	0001	0.14	U		#	0.14 ± 0.08
	pCi/L	0548	06/07/1999	0001	0.12	U		#	0.12 ± 0.07
	pCi/L	0553	06/05/1999	0001	0.14	U		#	0.14 ± 0.08
	pCi/L	0555	06/04/1999	0001	0.15	U		#	0.15 ± 0.08
	pCi/L	0655	06/06/1999	0001	0.14	U		#	0.14 ± 0.08
	pCi/L	0657	06/06/1999	0001	0.15	U		#	0.15 ± 0.08
	pCi/L	0658	06/06/1999	0001	0.31			#	0.14 ± 0.11
	pCi/L	0887	06/03/1999	0001	0.14	U		#	0.14 ± 0.08
	pCi/L	0888	06/06/1999	0001	0.14	U		#	0.14 ± 0.07
	pCi/L	0893	06/05/1999	0001	0.13	U		#	0.13 ± 0.08
	pCi/L	0894	06/06/1999	0001	0.13	U		#	0.13 ± 0.08
	pCi/L	0895	06/05/1999	0001	0.15	U		#	0.15 ± 0.08
	pCi/L	0896	06/05/1999	0001	0.14	U		#	0.14 ± 0.08
	pCi/L	0897	06/07/1999	0001	0.14	U		#	0.14 ± 0.08
	pCi/L	0898	06/06/1999	0001	0.14	U		#	0.14 ± 0.08
	pCi/L	0939	06/04/1999	0001	0.11	U		#	0.11 ± 0.06
	pCi/L	0939	06/04/1999	0002	0.10	U		#	0.1 ± 0.06
	pCi/L	0940	06/06/1999	0001	0.15	U		#	0.15 ± 0.09
	pCi/L	0941	06/06/1999	0001	0.15	U		#	0.15 ± 0.08
	Radium-228	pCi/L	0546	06/02/1999	0001	0.85	U		#
pCi/L		0548	06/07/1999	0001	0.68	U	J	#	0.68 ± 0.40
pCi/L		0553	06/05/1999	0001	0.80	U		#	0.8 ± 0.47
pCi/L		0555	06/04/1999	0001	0.81	U		#	0.81 ± 0.48
pCi/L		0655	06/06/1999	0001	0.78	U		#	0.78 ± 0.46
pCi/L		0657	06/06/1999	0001	0.91	U		#	0.91 ± 0.54
pCi/L		0658	06/06/1999	0001	0.85			#	0.79 ± 0.48
pCi/L		0887	06/03/1999	0001	0.85	U		#	0.85 ± 0.50
pCi/L		0888	06/06/1999	0001	0.82	U		#	0.82 ± 0.49
pCi/L		0893	06/05/1999	0001	0.79	U		#	0.79 ± 0.46
pCi/L		0894	06/06/1999	0001	0.76	U		#	0.76 ± 0.45
pCi/L		0895	06/05/1999	0001	0.83	U		#	0.83 ± 0.49
pCi/L		0896	06/05/1999	0001	0.76	U		#	0.76 ± 0.45

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:37 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Radium-228	pCi/L	0897	06/07/1999	0001	0.80	U J #	0.8	± 0.48
	pCi/L	0898	06/06/1999	0001	0.81	U #	0.81	± 0.48
	pCi/L	0939	06/04/1999	0001	0.61	U #	0.61	± 0.36
	pCi/L	0939	06/04/1999	0002	0.60	U #	0.6	± 0.35
	pCi/L	0940	06/06/1999	0001	0.82	U #	0.82	± 0.49
	pCi/L	0941	06/06/1999	0001	0.80	U #	0.8	± 0.48
Redox Potential	mV	0546	06/02/1999	N001	96	#	-	-
	mV	0548	06/07/1999	N001	54	#	-	-
	mV	0553	06/05/1999	N001	-76	#	-	-
	mV	0555	06/04/1999	N001	97	#	-	-
	mV	0655	06/06/1999	N001	136	#	-	-
	mV	0657	06/06/1999	N001	87	#	-	-
	mV	0658	06/06/1999	N001	-230	#	-	-
	mV	0887	06/03/1999	N001	68	#	-	-
	mV	0888	06/06/1999	N001	83	#	-	-
	mV	0893	06/05/1999	N001	92	#	-	-
	mV	0894	06/06/1999	N001	123	#	-	-
	mV	0895	06/05/1999	N001	64	#	-	-
	mV	0896	06/05/1999	N001	98	#	-	-
	mV	0897	06/07/1999	N001	99	#	-	-
	mV	0898	06/06/1999	N001	-5	#	-	-
	mV	0939	06/04/1999	N001	79	#	-	-
	mV	0940	06/06/1999	N001	64	#	-	-
mV	0941	06/06/1999	N001	97	#	-	-	
Selenium	mg/L	0546	06/02/1999	0001	0.0010	U #	0.001	-
	mg/L	0548	06/07/1999	0001	0.0010	U #	0.001	-
	mg/L	0553	06/05/1999	0001	0.0010	U #	0.001	-
	mg/L	0555	06/04/1999	0001	0.0010	U #	0.001	-
	mg/L	0655	06/06/1999	0001	0.0042	B #	-	-
	mg/L	0657	06/06/1999	0001	0.0010	U #	0.001	-
	mg/L	0658	06/06/1999	0001	0.0010	U #	0.001	-
	mg/L	0887	06/03/1999	0001	0.0010	U #	0.001	-
	mg/L	0888	06/06/1999	0001	0.0010	U #	0.001	-
	mg/L	0893	06/05/1999	0001	0.0010	U #	0.001	-
	mg/L	0894	06/06/1999	0001	0.0041	B #	-	-
	mg/L	0895	06/05/1999	0001	0.0010	U #	0.001	-
	mg/L	0896	06/05/1999	0001	0.0010	U #	0.001	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:37 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Selenium	mg/L	0897	06/07/1999	0001	0.0010 U	#	0.001	-
	mg/L	0898	06/08/1999	0001	0.0010 U	#	0.001	-
	mg/L	0939	06/04/1999	0001	0.0010 U	#	0.001	-
	mg/L	0939	06/04/1999	0002	0.0010 U	#	0.001	-
	mg/L	0940	06/08/1999	0001	0.0010 U	#	0.001	-
	mg/L	0941	06/08/1999	0001	0.0010 U	#	0.001	-
Sodium	mg/L	0546	06/02/1999	0001	11.600	#	-	-
	mg/L	0548	06/07/1999	0001	12.200	#	-	-
	mg/L	0553	06/05/1999	0001	11.100	#	-	-
	mg/L	0555	06/04/1999	0001	11.600	#	-	-
	mg/L	0655	06/08/1999	0001	430.000	#	-	-
	mg/L	0657	06/08/1999	0001	4350.000	#	-	-
	mg/L	0658	06/08/1999	0001	891.000	#	-	-
	mg/L	0887	06/03/1999	0001	10.800	#	-	-
	mg/L	0888	06/06/1999	0001	11.400	#	-	-
	mg/L	0893	06/05/1999	0001	11.200	#	-	-
	mg/L	0894	06/06/1999	0001	401.000	#	-	-
	mg/L	0895	06/05/1999	0001	11.500	#	-	-
	mg/L	0896	06/05/1999	0001	12.500	#	-	-
	mg/L	0897	06/07/1999	0001	12.400	#	-	-
	mg/L	0898	06/06/1999	0001	11.000	#	-	-
	mg/L	0939	06/04/1999	0001	11.400	#	-	-
	mg/L	0939	06/04/1999	0002	12.400	#	-	-
	mg/L	0940	06/08/1999	0001	11.200	#	-	-
mg/L	0941	06/08/1999	0001	8.680	#	-	-	
Specific Conductance	umhos/cm	0546	06/02/1999	N001	3100	#	-	-
	umhos/cm	0548	06/07/1999	N001	272	#	-	-
	umhos/cm	0553	06/05/1999	N001	261	#	-	-
	umhos/cm	0555	06/04/1999	N001	265	#	-	-
	umhos/cm	0655	06/08/1999	N001	4550	#	-	-
	umhos/cm	0657	06/08/1999	N001	18770	#	-	-
	umhos/cm	0658	06/08/1999	N001	4300	#	-	-
	umhos/cm	0887	06/03/1999	N001	249	#	-	-
	umhos/cm	0888	06/06/1999	N001	260	#	-	-
	umhos/cm	0893	06/05/1999	N001	263	#	-	-
	umhos/cm	0894	06/06/1999	N001	3160	#	-	-
	umhos/cm	0895	06/05/1999	N001	2640	#	-	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:37 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Specific Conductance	umhos/cm	0896	06/05/1999	N001	3960	#	-	-
	umhoe/cm	0897	06/07/1999	N001	445	#	-	-
	umhos/cm	0898	06/06/1999	N001	287	#	-	-
	umhoe/cm	0939	06/04/1999	N001	259	#	-	-
	umhos/cm	0940	06/06/1999	N001	280	#	-	-
	umhos/cm	0941	06/06/1999	N001	271	#	-	-
Strontium	mg/L	0546	06/02/1999	0001	0.294	#	-	-
	mg/L	0548	06/07/1999	0001	0.299	#	-	-
	mg/L	0553	06/05/1999	0001	0.274	#	-	-
	mg/L	0555	06/04/1999	0001	0.282	#	-	-
	mg/L	0655	06/06/1999	0001	4.330	#	-	-
	mg/L	0657	06/06/1999	0001	16.200	#	-	-
	mg/L	0658	06/06/1999	0001	12.500	#	-	-
	mg/L	0887	06/03/1999	0001	0.271	#	-	-
	mg/L	0888	06/06/1999	0001	0.275	#	-	-
	mg/L	0893	06/05/1999	0001	0.273	#	-	-
	mg/L	0894	06/06/1999	0001	4.050	#	-	-
	mg/L	0895	06/05/1999	0001	0.277	#	-	-
	mg/L	0896	06/05/1999	0001	0.279	#	-	-
	mg/L	0897	06/07/1999	0001	0.316	#	-	-
	mg/L	0898	06/06/1999	0001	0.270	#	-	-
	mg/L	0939	06/04/1999	0001	0.284	#	-	-
	mg/L	0939	06/04/1999	0002	0.285	#	-	-
	mg/L	0940	06/06/1999	0001	0.283	#	-	-
mg/L	0941	06/06/1999	0001	0.225	#	-	-	
Sulfate	mg/L	0546	06/02/1999	0001	40.200	#	-	-
	mg/L	0548	06/07/1999	0001	43.000	#	-	-
	mg/L	0553	06/05/1999	0001	42.100	#	-	-
	mg/L	0555	06/04/1999	0001	43.200	#	-	-
	mg/L	0655	06/06/1999	0001	1150.000	#	-	-
	mg/L	0657	06/06/1999	0001	11300.000	#	-	-
	mg/L	0658	06/06/1999	0001	2190.000	#	-	-
	mg/L	0887	06/03/1999	0001	37.600	#	-	-
	mg/L	0888	06/06/1999	0001	40.500	#	-	-
	mg/L	0893	06/05/1999	0001	39.000	#	-	-
	mg/L	0894	06/06/1999	0001	1060.000	#	-	-
	mg/L	0895	06/05/1999	0001	42.200	#	-	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:37 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Sulfate	mg/L	0896	08/05/1999	0001	44.200	#	-	-
	mg/L	0897	08/07/1999	0001	45.200	#	-	-
	mg/L	0898	08/08/1999	0001	40.700	#	-	-
	mg/L	0939	08/04/1999	0001	40.200	#	-	-
	mg/L	0939	08/04/1999	0002	41.500	#	-	-
	mg/L	0940	08/06/1999	0001	41.000	#	-	-
	mg/L	0941	08/06/1999	0001	41.100	#	-	-
Temperature	C	0546	08/02/1999	N001	11.6	#	-	-
	C	0548	08/07/1999	N001	10.9	#	-	-
	C	0553	08/05/1999	N001	9.7	#	-	-
	C	0555	08/04/1999	N001	11.9	#	-	-
	C	0655	08/06/1999	N001	14.1	#	-	-
	C	0657	08/08/1999	N001	16.1	#	-	-
	C	0658	08/08/1999	N001	27.6	#	-	-
	C	0887	08/03/1999	N001	11.6	#	-	-
	C	0888	08/06/1999	N001	8.9	#	-	-
	C	0893	08/05/1999	N001	9.9	#	-	-
	C	0894	08/08/1999	N001	12.6	#	-	-
	C	0895	08/05/1999	N001	9.1	#	-	-
	C	0896	08/05/1999	N001	9.4	#	-	-
	C	0897	08/07/1999	N001	11.8	#	-	-
	C	0898	08/06/1999	N001	11.1	#	-	-
	C	0939	08/04/1999	N001	12.1	#	-	-
	C	0940	08/06/1999	N001	12.4	#	-	-
C	0941	08/06/1999	N001	12.7	#	-	-	
Total Dissolved Solids	mg/L	0546	08/02/1999	0001	140	#	-	-
	mg/L	0548	08/07/1999	0001	220	#	-	-
	mg/L	0553	08/05/1999	0001	187	#	-	-
	mg/L	0555	08/04/1999	0001	172	#	-	-
	mg/L	0655	08/06/1999	0001	1940	#	-	-
	mg/L	0657	08/08/1999	0001	17100	#	-	-
	mg/L	0658	08/08/1999	0001	3360	#	-	-
	mg/L	0887	08/03/1999	0001	135	#	-	-
	mg/L	0888	08/06/1999	0001	162	#	-	-
	mg/L	0893	08/05/1999	0001	148	#	-	-
	mg/L	0894	08/08/1999	0001	1870	#	-	-
	mg/L	0895	08/05/1999	0001	172	#	-	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:37 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		RESULT	QUALIFIERS:			UN- CERTAINTY
			DATE	ID		LAB	DATA	QA	
Total Dissolved Solids	mg/L	0896	06/05/1999	0001	343	#	-	-	
	mg/L	0897	06/07/1999	0001	230	#	-	-	
	mg/L	0898	06/06/1999	0001	182	#	-	-	
	mg/L	0939	06/04/1999	0001	150	#	-	-	
	mg/L	0939	06/04/1999	0002	150	#	-	-	
	mg/L	0940	06/06/1999	0001	158	#	-	-	
	mg/L	0941	06/06/1999	0001	158	#	-	-	
Turbidity	NTU	0546	06/02/1999	N001	131	#	-	-	
	NTU	0548	06/07/1999	N001	52.5	#	-	-	
	NTU	0553	06/05/1999	N001	75.8	#	-	-	
	NTU	0555	06/04/1999	N001	96.7	#	-	-	
	NTU	0655	06/06/1999	N001	30.8	#	-	-	
	NTU	0657	06/06/1999	N001	12.34	#	-	-	
	NTU	0658	06/06/1999	N001	16.3	#	-	-	
	NTU	0887	06/03/1999	N001	96.6	#	-	-	
	NTU	0888	06/06/1999	N001	52.8	#	-	-	
	NTU	0893	06/05/1999	N001	56.4	#	-	-	
	NTU	0894	06/06/1999	N001	44.9	#	-	-	
	NTU	0895	06/05/1999	N001	52.4	#	-	-	
	NTU	0897	06/07/1999	N001	48.8	#	-	-	
	NTU	0939	06/04/1999	N001	66.3	#	-	-	
	NTU	0940	06/06/1999	N001	40.0	#	-	-	
NTU	0941	06/06/1999	N001	45.8	#	-	-		
Uranium	mg/L	0546	06/02/1999	0001	0.0003 B	#	-	-	
	mg/L	0548	06/07/1999	0001	0.0003 B	#	-	-	
	mg/L	0553	06/05/1999	0001	0.0006 B	#	-	-	
	mg/L	0555	06/04/1999	0001	0.0023	#	-	-	
	mg/L	0655	06/06/1999	0001	0.0142	#	-	-	
	mg/L	0657	06/06/1999	0001	0.129	#	-	-	
	mg/L	0658	06/06/1999	0001	0.0019	#	-	-	
	mg/L	0887	06/03/1999	0001	0.0003 B	#	-	-	
	mg/L	0888	06/06/1999	0001	0.0003 B	#	-	-	
	mg/L	0893	06/05/1999	0001	0.0003 B	#	-	-	
	mg/L	0894	06/06/1999	0001	0.0136	#	-	-	
	mg/L	0895	06/05/1999	0001	0.0003 B	#	-	-	
	mg/L	0896	06/05/1999	0001	0.0029	#	-	-	
mg/L	0897	06/07/1999	0001	0.0004 B	#	-	-		

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:37 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		RESULT	QUALIFIERS:		DETECTION LIMIT	UN- CERTAINTY
			DATE	ID		LAB	DATA QA		
Uranium	mg/L	0898	06/06/1999	0001	0.0003	B	#	-	-
	mg/L	0939	06/04/1999	0001	0.0003	B	#	-	-
	mg/L	0939	06/04/1999	0002	0.0003	B	#	-	-
	mg/L	0940	06/06/1999	0001	0.0003	B	#	-	-
	mg/L	0941	06/06/1999	0001	0.0003	B	#	-	-
Vanadium	mg/L	0546	06/02/1999	0001	0.0017	B	#	-	-
	mg/L	0548	06/07/1999	0001	0.0006	U	#	0.0006	-
	mg/L	0553	06/05/1999	0001	0.0013	B	#	-	-
	mg/L	0555	06/04/1999	0001	0.0009	B	#	-	-
	mg/L	0655	06/06/1999	0001	0.0006	U	#	0.0006	-
	mg/L	0657	06/06/1999	0001	0.0006	U	#	0.0006	-
	mg/L	0658	06/06/1999	0001	0.0019	B	#	-	-
	mg/L	0887	06/03/1999	0001	0.0009	B	#	-	-
	mg/L	0888	06/06/1999	0001	0.0006	U	#	0.0006	-
	mg/L	0893	06/05/1999	0001	0.0012	B	#	-	-
	mg/L	0894	06/06/1999	0001	0.0006	U	#	0.0006	-
	mg/L	0895	06/05/1999	0001	0.0006	U	#	0.0006	-
	mg/L	0896	06/05/1999	0001	0.0011	B	#	-	-
	mg/L	0897	06/07/1999	0001	0.0006	U	#	0.0006	-
	mg/L	0898	06/06/1999	0001	0.0012	B	#	-	-
	mg/L	0939	06/04/1999	0001	0.0012	B	#	-	-
	mg/L	0939	06/04/1999	0002	0.0006	U	#	0.0006	-
	mg/L	0940	06/06/1999	0001	0.0009	B	#	-	-
	mg/L	0941	06/06/1999	0001	0.0009	B	#	-	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 9/8/1999 2:37 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
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RECORDS: SELECTED FROM USEE800 WHERE site_code='SHP01' AND quality_assurance = TRUE AND (NOT (data_validation_qualifiers LIKE 'R' OR data_validation_qualifiers LIKE 'X') OR IsNull(data_validation_qualifiers)) AND DATE_SAMPLED between #6/1/1999# and #6/30/1999#

SAMPLE ID CODES: 000X = Filtered sample (0.45 µm). N00X = Unfiltered sample. X = replicate number.

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.

DATA QUALIFIERS:

- | | |
|------------------------------------------------|------------------------------------------------------|
| J Estimated value. | F Low flow sampling method used. |
| G Possible grout contamination, pH > 9. | L Less than 3 bore volumes purged prior to sampling. |
| R Unusable result. | X Location is undefined. |
| U Parameter analyzed for but was not detected. | |

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:33 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		RESULT	QUALIFIERS:			DETECTION LIMIT	UN- CERTAINTY
			DATE	ID		LAB	DATA	QA		
Alkalinity as CaCO3	mg/L	0425	06/06/1999	0001	498			#	-	-
	mg/L	0425	06/06/1999	N001	472			#	-	-
	mg/L	0426	06/06/1999	0001	360			#	-	-
	mg/L	0426	06/06/1999	N001	354			#	-	-
	mg/L	0662	06/06/1999	0001	54			#	-	-
	mg/L	0662	06/06/1999	N001	53			#	-	-
	mg/L	0884	06/03/1999	0001	237			#	-	-
	mg/L	0884	06/03/1999	N001	229			#	-	-
	mg/L	0885	06/07/1999	0001	643			#	-	-
	mg/L	0886	06/07/1999	0001	530			#	-	-
	mg/L	0886	06/07/1999	N001	530			#	-	-
	mg/L	0889	06/07/1999	0001	527			#	-	-
	mg/L	0889	06/07/1999	N001	521			#	-	-
	mg/L	0933	06/05/1999	0001	638			#	-	-
	mg/L	0933	06/05/1999	N001	653			#	-	-
	mg/L	0934	06/05/1999	0001	289			#	-	-
	mg/L	0934	06/05/1999	N001	289			#	-	-
	mg/L	0935	06/05/1999	0001	350			#	-	-
	mg/L	0935	06/05/1999	N001	395			#	-	-
	mg/L	0942	06/04/1999	0001	270			#	-	-
mg/L	0942	06/04/1999	N001	268			#	-	-	
Ammonia as NH4	mg/L	0425	06/06/1999	0001	0.228	R		#	-	-
	mg/L	0426	06/06/1999	0001	0.0282 B	R		#	-	-
	mg/L	0662	06/06/1999	0001	0.0124 B	RU		#	-	-
	mg/L	0662	06/06/1999	0002	0.0107 B	RU		#	-	-
	mg/L	0884	06/03/1999	0001	0.103	R		#	-	-
	mg/L	0885	06/07/1999	0001	0.0697 B	R		#	-	-
	mg/L	0886	06/07/1999	0001	2.050 B	R		#	-	-
	mg/L	0889	06/07/1999	0001	0.0145 B	RU		#	-	-
	mg/L	0933	06/05/1999	0001	0.802	R		#	-	-
	mg/L	0934	06/05/1999	0001	0.0463 B	R		#	-	-
	mg/L	0935	06/05/1999	0001	0.0162 B	R		#	-	-
	mg/L	0936	06/05/1999	0001	0.0407 B	R		#	-	-
	mg/L	0942	06/04/1999	0001	0.0313 B	R		#	-	-
	Antimony	mg/L	0425	06/06/1999	0001	0.0024 B	U		#	-
mg/L		0426	06/06/1999	0001	0.0011 B	U		#	-	-
mg/L		0662	06/06/1999	0001	0.0011 B	U		#	-	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:33 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID		LAB	DATA	QA		
Antimony	mg/L	0662	06/06/1999	0002	0.0010	B	U	#	-	-
	mg/L	0884	06/03/1999	0001	0.0006	B	U	#	-	-
	mg/L	0885	06/07/1999	0001	0.0007	B	U	#	-	-
	mg/L	0886	06/07/1999	0001	0.0024	B	U	#	-	-
	mg/L	0889	06/07/1999	0001	0.0021	B	U	#	-	-
	mg/L	0933	06/05/1999	0001	0.0024	B	U	#	-	-
	mg/L	0934	06/05/1999	0001	0.0004	B	U	#	-	-
	mg/L	0935	06/05/1999	0001	0.0017	B	U	#	-	-
	mg/L	0936	06/05/1999	0001	0.0006	B	U	#	-	-
	mg/L	0942	06/04/1999	0001	0.0003	B	U	#	-	-
Arsenic	mg/L	0425	06/06/1999	0001	0.0010	U		#	0.001	-
	mg/L	0426	06/06/1999	0001	0.0010	U		#	0.001	-
	mg/L	0662	06/06/1999	0001	0.0010	U		#	0.001	-
	mg/L	0662	06/06/1999	0002	0.0010	U		#	0.001	-
	mg/L	0884	06/03/1999	0001	0.0010	U		#	0.001	-
	mg/L	0885	06/07/1999	0001	0.0010	UN	J	#	0.001	-
	mg/L	0886	06/07/1999	0001	0.0010	UN	J	#	0.001	-
	mg/L	0889	06/07/1999	0001	0.0010	UN	J	#	0.001	-
	mg/L	0933	06/05/1999	0001	0.0010	U		#	0.001	-
	mg/L	0934	06/05/1999	0001	0.0010	U		#	0.001	-
	mg/L	0935	06/05/1999	0001	0.0010	U		#	0.001	-
	mg/L	0936	06/05/1999	0001	0.0010	U		#	0.001	-
	mg/L	0942	06/04/1999	0001	0.0010	U		#	0.001	-
Cadmium	mg/L	0425	06/06/1999	0001	0.0003	U		#	0.0003	-
	mg/L	0426	06/06/1999	0001	0.0016			#	-	-
	mg/L	0662	06/06/1999	0001	0.0003	U		#	0.0003	-
	mg/L	0662	06/06/1999	0002	0.0003	U		#	0.0003	-
	mg/L	0884	06/03/1999	0001	0.0003	U		#	0.0003	-
	mg/L	0885	06/07/1999	0001	0.0003	U		#	0.0003	-
	mg/L	0886	06/07/1999	0001	0.0003	U		#	0.0003	-
	mg/L	0889	06/07/1999	0001	0.0003	U		#	0.0003	-
	mg/L	0933	06/05/1999	0001	0.0003	U		#	0.0003	-
	mg/L	0934	06/05/1999	0001	0.0003	U		#	0.0003	-
	mg/L	0935	06/05/1999	0001	0.0003	U		#	0.0003	-
	mg/L	0936	06/05/1999	0001	0.0003	U		#	0.0003	-
	mg/L	0942	06/04/1999	0001	0.0003	U		#	0.0003	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:33 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Calcium	mg/L	0425	06/06/1999	0001	444.000	#	-	-
	mg/L	0426	06/06/1999	0001	414.000	#	-	-
	mg/L	0662	06/06/1999	0001	109.000	#	-	-
	mg/L	0662	06/06/1999	0002	115.000	#	-	-
	mg/L	0884	06/03/1999	0001	521.000	#	-	-
	mg/L	0885	06/07/1999	0001	464.000	#	-	-
	mg/L	0886	06/07/1999	0001	473.000	#	-	-
	mg/L	0889	06/07/1999	0001	408.000	#	-	-
	mg/L	0933	06/05/1999	0001	520.000	#	-	-
	mg/L	0934	06/05/1999	0001	404.000	#	-	-
	mg/L	0935	06/05/1999	0001	463.000	#	-	-
	mg/L	0936	06/05/1999	0001	510.000	#	-	-
	mg/L	0942	06/04/1999	0001	497.000	#	-	-
Chloride	mg/L	0425	06/06/1999	0001	204.000	#	-	-
	mg/L	0426	06/06/1999	0001	173.000	#	-	-
	mg/L	0662	06/06/1999	0001	56.200	#	-	-
	mg/L	0662	06/06/1999	0002	60.000	#	-	-
	mg/L	0884	06/03/1999	0001	41.100	#	-	-
	mg/L	0885	06/07/1999	0001	215.000	#	-	-
	mg/L	0886	06/07/1999	0001	2690.000	#	-	-
	mg/L	0889	06/07/1999	0001	1510.000	#	-	-
	mg/L	0933	06/05/1999	0001	240.000	#	-	-
	mg/L	0934	06/05/1999	0001	27.600	#	-	-
	mg/L	0935	06/05/1999	0001	68.700	#	-	-
	mg/L	0936	06/05/1999	0001	55.600	#	-	-
	mg/L	0942	06/04/1999	0001	52.300	#	-	-
Gross Alpha	pCi/L	0425	06/06/1999	0001	236.0	J #	37.1	± 54.1
	pCi/L	0426	06/06/1999	0001	201.8	J #	35.9	± 49.5
	pCi/L	0662	06/06/1999	0001	17.31	U J #	17.31	± 7.77
	pCi/L	0662	06/06/1999	0002	17.01	U J #	17.01	± 8.05
	pCi/L	0884	06/03/1999	0001	36.64	J #	18.56	± 16.6
	pCi/L	0885	06/07/1999	0001	1147	#	78	± 134.
	pCi/L	0886	06/07/1999	0001	1154.12	U #	1154.12	± 674.
	pCi/L	0889	06/07/1999	0001	497.47	U #	497.47	± 247.
	pCi/L	0933	06/05/1999	0001	91.56	#	82.31	± 56.3
	pCi/L	0934	06/05/1999	0001	22.18	U #	22.18	± 14.1
	pCi/L	0935	06/05/1999	0001	61.10	U #	61.1	± 39.7

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:33 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID		LAB	DATA	QA		
Gross Alpha	pCi/L	0936	06/05/1999	0001	39.80	U		#	39.8	± 25.5
	pCi/L	0942	06/04/1999	0001	25.43		J	#	17.51	± 14.1
Gross Beta	pCi/L	0425	06/06/1999	0001	140.9			#	47.7	± 33.7
	pCi/L	0426	06/06/1999	0001	136.2			#	47.4	± 33.3
	pCi/L	0662	06/06/1999	0001	22.98	U		#	22.98	± 13.2
	pCi/L	0662	06/06/1999	0002	22.97	U		#	22.97	± 13.3
	pCi/L	0884	06/03/1999	0001	25.53			#	23.31	± 14.5
	pCi/L	0885	06/07/1999	0001	441.2			#	86.1	± 69.0
	pCi/L	0886	06/07/1999	0001	1222.15	U		#	1222.15	± 737.
	pCi/L	0889	06/07/1999	0001	598.03	U		#	598.03	± 347.
	pCi/L	0933	06/05/1999	0001	78.16	U		#	78.16	± 46.8
	pCi/L	0934	06/05/1999	0001	20.81	U		#	20.81	± 12.2
	pCi/L	0935	06/05/1999	0001	81.81	U		#	81.81	± 35.0
	pCi/L	0936	06/05/1999	0001	41.05	U		#	41.05	± 24.6
	pCi/L	0942	06/04/1999	0001	23.16	U		#	23.16	± 13.6
	Iron	mg/L	0425	06/06/1999	0001	0.0239	B	U	#	-
mg/L		0426	06/06/1999	0001	0.0081	B	U	#	-	-
mg/L		0662	06/06/1999	0001	0.0151	B	U	#	-	-
mg/L		0662	06/06/1999	0002	0.0138	B	U	#	-	-
mg/L		0884	06/03/1999	0001	0.0090	B	U	#	-	-
mg/L		0885	06/07/1999	0001	0.0059	U		#	0.0059	-
mg/L		0886	06/07/1999	0001	0.0086	B		#	-	-
mg/L		0889	06/07/1999	0001	0.0059	U		#	0.0059	-
mg/L		0933	06/05/1999	0001	0.197			#	-	-
mg/L		0934	06/05/1999	0001	0.0194	B	U	#	-	-
mg/L		0935	06/05/1999	0001	0.0254	B	U	#	-	-
mg/L		0936	06/05/1999	0001	0.0059	U		#	0.0059	-
mg/L		0942	06/04/1999	0001	0.0059	U		#	0.0059	-
Magnesium		mg/L	0425	06/06/1999	0001	419.000			#	-
	mg/L	0426	06/06/1999	0001	219.000			#	-	-
	mg/L	0662	06/06/1999	0001	14.000			#	-	-
	mg/L	0662	06/06/1999	0002	14.600			#	-	-
	mg/L	0884	06/03/1999	0001	189.000			#	-	-
	mg/L	0885	06/07/1999	0001	495.000			#	-	-
	mg/L	0886	06/07/1999	0001	3610.000			#	-	-
	mg/L	0889	06/07/1999	0001	1390.000			#	-	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:33 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Magnesium	mg/L	0933	06/05/1999	0001	682.000	#	-	-
	mg/L	0934	06/05/1999	0001	117.000	#	-	-
	mg/L	0935	06/05/1999	0001	460.000	#	-	-
	mg/L	0936	06/05/1999	0001	240.000	#	-	-
	mg/L	0942	06/04/1999	0001	186.000	#	-	-
Manganese	mg/L	0425	06/06/1999	0001	0.114	#	-	-
	mg/L	0426	06/06/1999	0001	0.0296	#	-	-
	mg/L	0662	06/06/1999	0001	0.0028 B	#	-	-
	mg/L	0662	06/06/1999	0002	0.0014 B	#	-	-
	mg/L	0884	06/03/1999	0001	0.0076 B	#	-	-
	mg/L	0885	06/07/1999	0001	0.0264	#	-	-
	mg/L	0886	06/07/1999	0001	0.129	#	-	-
	mg/L	0889	06/07/1999	0001	0.0052 B	#	-	-
	mg/L	0933	06/05/1999	0001	1.900	#	-	-
	mg/L	0934	06/05/1999	0001	0.0110	#	-	-
	mg/L	0935	06/05/1999	0001	0.0080 B	#	-	-
	mg/L	0936	06/05/1999	0001	0.0016 B	#	-	-
	mg/L	0942	06/04/1999	0001	0.0109	#	-	-
Nitrate	mg/L	0425	06/06/1999	0001	265.000	#	-	-
	mg/L	0426	06/06/1999	0001	196.000	#	-	-
	mg/L	0662	06/06/1999	0001	0.578 B	#	-	-
	mg/L	0662	06/06/1999	0002	0.543 B	#	-	-
	mg/L	0884	06/03/1999	0001	28.000	#	-	-
	mg/L	0885	06/07/1999	0001	157.000	#	-	-
	mg/L	0886	06/07/1999	0001	8060.000	#	-	-
	mg/L	0889	06/07/1999	0001	4020.000	#	-	-
	mg/L	0933	06/05/1999	0001	227.000	#	-	-
	mg/L	0934	06/05/1999	0001	56.400	#	-	-
	mg/L	0935	06/05/1999	0001	368.000	#	-	-
	mg/L	0936	06/05/1999	0001	145.000	#	-	-
	mg/L	0942	06/04/1999	0001	122.000	#	-	-
pH	s.u.	0425	06/06/1999	N001	6.80	#	-	-
	s.u.	0426	06/06/1999	N001	7.26	#	-	-
	s.u.	0662	06/06/1999	N001	7.75	#	-	-
	s.u.	0884	06/03/1999	N001	7.32	#	-	-
	s.u.	0885	06/07/1999	N001	7.76	#	-	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:33 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
pH	s.u.	0886	06/07/1999	N001	9.39	#	-	-
	s.u.	0889	06/07/1999	N001	9.00	#	-	-
	s.u.	0933	06/05/1999	N001	7.06	#	-	-
	s.u.	0934	06/05/1999	N001	6.80	#	-	-
	s.u.	0935	06/05/1999	N001	6.75	#	-	-
	s.u.	0942	06/04/1999	N001	6.92	#	-	-
Polonium-210	pCi/L	0425	06/06/1999	0001	0.19	U #	0.19	± 0.18
	pCi/L	0426	06/06/1999	0001	0.19	U #	0.19	± 0.19
	pCi/L	0662	06/06/1999	0001	0.26	U #	0.26	± 0.23
	pCi/L	0662	06/06/1999	0002	0.25	U #	0.25	± 0.26
	pCi/L	0884	06/03/1999	0001	0.36	U #	0.36	± 0.40
	pCi/L	0885	06/07/1999	0001	0.20	U #	0.17	± 0.24
	pCi/L	0886	06/07/1999	0001	0.41	U #	0.18	± 0.34
	pCi/L	0889	06/07/1999	0001	0.21	U #	0.21	± 0.20
	pCi/L	0933	06/05/1999	0001	0.16	U #	0.16	± 0.20
	pCi/L	0934	06/05/1999	0001	0.25	U #	0.25	± -0.22
	pCi/L	0935	06/05/1999	0001	0.24	U #	0.24	± 0.25
	pCi/L	0936	06/05/1999	0001	0.40	U #	0.4	± -0.35
	pCi/L	0942	06/04/1999	0001	0.25	U #	0.25	± -0.21
Potassium	mg/L	0425	06/06/1999	0001	26.100	#	-	-
	mg/L	0426	06/06/1999	0001	17.000	#	-	-
	mg/L	0662	06/06/1999	0001	7.750	#	-	-
	mg/L	0662	06/06/1999	0002	8.170	#	-	-
	mg/L	0884	06/03/1999	0001	3.390	E J #	-	-
	mg/L	0885	06/07/1999	0001	22.500	#	-	-
	mg/L	0886	06/07/1999	0001	190.000	#	-	-
	mg/L	0889	06/07/1999	0001	76.400	#	-	-
	mg/L	0933	06/05/1999	0001	23.000	#	-	-
	mg/L	0934	06/05/1999	0001	4.680	#	-	-
	mg/L	0935	06/05/1999	0001	15.300	#	-	-
	mg/L	0936	06/05/1999	0001	9.380	#	-	-
	mg/L	0942	06/04/1999	0001	5.690	E J #	-	-
Radium-226	pCi/L	0425	06/06/1999	0001	0.47	#	0.14	± 0.12
	pCi/L	0426	06/06/1999	0001	0.36	#	0.13	± 0.10
	pCi/L	0662	06/06/1999	0001	0.66	#	0.15	± 0.14
	pCi/L	0662	06/06/1999	0002	0.78	#	0.15	± 0.15

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:33 pm

PARAMETER	UNITS	LOCATION		SAMPLE:		RESULT	QUALIFIERS:		DETECTION LIMIT	UN-CERTAINTY
		ID		DATE	ID		LAB	DATA QA		
Radium-226	pCi/L	0884		06/03/1999	0001	0.25		#	0.14	± 0.10
	pCi/L	0885		06/07/1999	0001	0.20		#	0.16	± 0.11
	pCi/L	0886		06/07/1999	0001	0.91		#	0.22	± 0.17
	pCi/L	0889		06/07/1999	0001	0.38		#	0.15	± 0.11
	pCi/L	0933		06/05/1999	0001	0.20		#	0.14	± 0.09
	pCi/L	0934		06/05/1999	0001	0.14	U	#	0.14	± 0.08
	pCi/L	0935		06/05/1999	0001	0.68		#	0.13	± 0.12
	pCi/L	0936		06/05/1999	0001	0.57		#	0.15	± 0.13
	pCi/L	0942		06/04/1999	0001	0.14	U	#	0.14	± 0.08
Radium-228	pCi/L	0425		06/06/1999	0001	0.99		#	0.73	± 0.45
	pCi/L	0426		06/06/1999	0001	0.73	U	#	0.73	± 0.44
	pCi/L	0662		06/06/1999	0001	1.17		#	0.81	± 0.50
	pCi/L	0662		06/06/1999	0002	1.10		#	0.81	± 0.50
	pCi/L	0884		06/03/1999	0001	0.83	U	#	0.83	± 0.50
	pCi/L	0885		06/07/1999	0001	0.92	U	J	0.92	± 0.55
	pCi/L	0886		06/07/1999	0001	1.72		J	1.29	± 0.78
	pCi/L	0889		06/07/1999	0001	1.86		J	0.74	± 0.47
	pCi/L	0933		06/05/1999	0001	0.84	U	#	0.84	± 0.51
	pCi/L	0934		06/05/1999	0001	0.79	U	#	0.79	± 0.47
	pCi/L	0935		06/05/1999	0001	0.71	U	#	0.71	± 0.43
	pCi/L	0936		06/05/1999	0001	0.83	U	#	0.83	± 0.50
	pCi/L	0942		06/04/1999	0001	0.83	U	#	0.83	± 0.49
Redox Potential	mV	0425		06/06/1999	N001	170		#	-	-
	mV	0426		06/06/1999	N001	31		#	-	-
	mV	0662		06/06/1999	N001	165		#	-	-
	mV	0884		06/03/1999	N001	87		#	-	-
	mV	0885		06/07/1999	N001	192		#	-	-
	mV	0886		06/07/1999	N001	50		#	-	-
	mV	0889		06/07/1999	N001	65		#	-	-
	mV	0933		06/05/1999	N001	150		#	-	-
	mV	0934		06/05/1999	N001	122		#	-	-
	mV	0935		06/05/1999	N001	139		#	-	-
	mV	0942		06/04/1999	N001	113		#	-	-
Selenium	mg/L	0425		06/06/1999	0001	0.0586		#	-	-
	mg/L	0426		06/06/1999	0001	0.0704		#	-	-
	mg/L	0662		06/06/1999	0001	0.0010	U	#	0.001	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:33 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Selenium	mg/L	0662	06/06/1999	0002	0.0010 U	#	0.001	-
	mg/L	0884	06/03/1999	0001	0.131	#	-	-
	mg/L	0885	06/07/1999	0001	0.0135	#	-	-
	mg/L	0886	06/07/1999	0001	7.010	#	-	-
	mg/L	0889	06/07/1999	0001	1.740	#	-	-
	mg/L	0933	06/05/1999	0001	0.203	#	-	-
	mg/L	0934	06/05/1999	0001	0.0670	#	-	-
	mg/L	0935	06/05/1999	0001	0.230	#	-	-
	mg/L	0936	06/05/1999	0001	0.167	#	-	-
	mg/L	0942	06/04/1999	0001	0.235	#	-	-
Sodium	mg/L	0425	06/06/1999	0001	818.000	#	-	-
	mg/L	0426	06/06/1999	0001	1180.000	#	-	-
	mg/L	0662	06/06/1999	0001	829.000	#	-	-
	mg/L	0662	06/06/1999	0002	829.000	#	-	-
	mg/L	0884	06/03/1999	0001	247.000	#	-	-
	mg/L	0885	06/07/1999	0001	1160.000	#	-	-
	mg/L	0886	06/07/1999	0001	28300.000	#	-	-
	mg/L	0889	06/07/1999	0001	10500.000	#	-	-
	mg/L	0933	06/05/1999	0001	949.000	#	-	-
	mg/L	0934	06/05/1999	0001	151.000	#	-	-
	mg/L	0935	06/05/1999	0001	654.000	#	-	-
	mg/L	0936	06/05/1999	0001	300.000	#	-	-
mg/L	0942	06/04/1999	0001	233.000	#	-	-	
Specific Conductance	umhos/cm	0425	06/06/1999	N001	6890	#	-	-
	umhos/cm	0426	06/06/1999	N001	7160	#	-	-
	umhos/cm	0662	06/06/1999	N001	4080	#	-	-
	umhos/cm	0884	06/03/1999	N001	3860	#	-	-
	umhos/cm	0885	06/07/1999	N001	8150	#	-	-
	umhos/cm	0886	06/07/1999	N001	56700	#	-	-
	umhos/cm	0889	06/07/1999	N001	32800	#	-	-
	umhos/cm	0933	06/05/1999	N001	8860	#	-	-
	umhos/cm	0934	06/05/1999	N001	2520	#	-	-
	umhos/cm	0935	06/05/1999	N001	6430	#	-	-
	umhos/cm	0942	06/04/1999	N001	3730	#	-	-
Strontium	mg/L	0425	06/06/1999	0001	6.850	#	-	-
	mg/L	0426	06/06/1999	0001	10.000	#	-	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:33 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS: LAB DATA QA	DETECTION LIMIT	UN-CERTAINTY
Strontium	mg/L	0662	06/06/1999	0001	11.700	#	-	-
	mg/L	0662	06/06/1999	0002	11.700	#	-	-
	mg/L	0884	06/03/1999	0001	5.510	#	-	-
	mg/L	0885	06/07/1999	0001	11.700	#	-	-
	mg/L	0886	06/07/1999	0001	16.100	#	-	-
	mg/L	0889	06/07/1999	0001	9.440	#	-	-
	mg/L	0933	06/05/1999	0001	7.390	#	-	-
	mg/L	0934	06/05/1999	0001	3.410	#	-	-
	mg/L	0935	06/05/1999	0001	6.430	#	-	-
	mg/L	0936	06/05/1999	0001	5.940	#	-	-
	mg/L	0942	06/04/1999	0001	4.920	#	-	-
Sulfate	mg/L	0425	06/06/1999	0001	3970.000	#	-	-
	mg/L	0426	06/06/1999	0001	4100.000	#	-	-
	mg/L	0662	06/06/1999	0001	2050.000	#	-	-
	mg/L	0662	06/06/1999	0002	2050.000	#	-	-
	mg/L	0884	06/03/1999	0001	2340.000	#	-	-
	mg/L	0885	06/07/1999	0001	4860.000	#	-	-
	mg/L	0886	06/07/1999	0001	7280.000	#	-	-
	mg/L	0889	06/07/1999	0001	25400.000	#	-	-
	mg/L	0933	06/05/1999	0001	5380.000	#	-	-
	mg/L	0934	06/05/1999	0001	1320.000	#	-	-
	mg/L	0935	06/05/1999	0001	1850.000	#	-	-
	mg/L	0936	06/05/1999	0001	2350.000	#	-	-
	mg/L	0942	06/04/1999	0001	2120.000	#	-	-
Temperature	C	0425	06/06/1999	N001	16.1	#	-	-
	C	0426	06/06/1999	N001	15.4	#	-	-
	C	0662	06/06/1999	N001	25.7	#	-	-
	C	0884	06/03/1999	N001	18.7	#	-	-
	C	0885	06/07/1999	N001	22.6	#	-	-
	C	0886	06/07/1999	N001	27.4	#	-	-
	C	0889	06/07/1999	N001	28.0	#	-	-
	C	0933	06/05/1999	N001	9.4	#	-	-
	C	0934	06/05/1999	N001	15.3	#	-	-
	C	0935	06/05/1999	N001	10.9	#	-	-
	C	0942	06/04/1999	N001	15.6	#	-	-
Total Dissolved Solids	mg/L	0425	06/06/1999	0001	7160	#	-	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:33 pm

PARAMETER	UNITS	LOCATION		SAMPLE:		RESULT	QUALIFIERS:		DETECTION LIMIT	UN- CERTAINTY
		ID	ID	DATE	ID		LAB	DATA QA		
Total Dissolved Solids	mg/L	0426	06/06/1999	0001		6590	#	-	-	
	mg/L	0662	06/06/1999	0001		3110	#	-	-	
	mg/L	0662	06/06/1999	0002		3130	#	-	-	
	mg/L	0884	06/03/1999	0001		3900	#	-	-	
	mg/L	0885	06/07/1999	0001		8850	#	-	-	
	mg/L	0886	06/07/1999	0001		124000	#	-	-	
	mg/L	0889	06/07/1999	0001		92300	#	-	-	
	mg/L	0933	06/05/1999	0001		8990	#	-	-	
	mg/L	0934	06/05/1999	0001		2570	#	-	-	
	mg/L	0935	06/05/1999	0001		6530	#	-	-	
	mg/L	0936	06/05/1999	0001		4140	#	-	-	
	mg/L	0942	06/04/1999	0001		3610	#	-	-	
	Turbidity	NTU	0425	06/06/1999	N001		3.47	#	-	-
NTU		0426	06/06/1999	N001		0.99	#	-	-	
NTU		0662	06/06/1999	N001		8.31	#	-	-	
NTU		0884	06/03/1999	N001		8.31	#	-	-	
NTU		0885	06/07/1999	N001		1000 >	#	-	-	
NTU		0886	06/07/1999	N001		18.4	#	-	-	
NTU		0889	06/07/1999	N001		3.76	#	-	-	
NTU		0933	06/05/1999	N001		12.8	#	-	-	
NTU		0934	06/05/1999	N001		3.92	#	-	-	
NTU		0935	06/05/1999	N001		385	#	-	-	
Uranium	mg/L	0425	06/06/1999	0001		0.411	#	-	-	
	mg/L	0426	06/06/1999	0001		0.383	#	-	-	
	mg/L	0662	06/06/1999	0001		0.0002 U	#	0.0002	-	
	mg/L	0662	06/06/1999	0002		0.0002 U	#	0.0002	-	
	mg/L	0884	06/03/1999	0001		0.0382	#	-	-	
	mg/L	0885	06/07/1999	0001		1.850	#	-	-	
	mg/L	0886	06/07/1999	0001		0.630	#	-	-	
	mg/L	0889	06/07/1999	0001		0.190	#	-	-	
	mg/L	0933	06/05/1999	0001		0.0965	#	-	-	
	mg/L	0934	06/05/1999	0001		0.0317	#	-	-	
	mg/L	0935	06/05/1999	0001		0.0595	#	-	-	
	mg/L	0936	06/05/1999	0001		0.0486	#	-	-	
	mg/L	0942	06/04/1999	0001		0.0365	#	-	-	
Vanadium	mg/L	0425	06/06/1999	0001		0.0006 U	#	0.0006	-	

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE SHP02, SHIPROCK (TAILINGS AREA)
 REPORT DATE: 9/8/1999 2:33 pm

PARAMETER	UNITS	LOCATION ID	SAMPLE:		RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			DATE	ID		LAB	DATA	QA		
Vanadium	mg/L	0426	06/08/1999	0001	0.0012	B	#	-	-	
	mg/L	0662	06/06/1999	0001	0.0009	B	#	-	-	
	mg/L	0662	06/06/1999	0002	0.0006	U	#	0.0006	-	
	mg/L	0884	06/03/1999	0001	0.0008	U	#	0.0006	-	
	mg/L	0885	06/07/1999	0001	0.0052	B	#	-	-	
	mg/L	0886	06/07/1999	0001	0.0006	U	#	0.0006	-	
	mg/L	0889	06/07/1999	0001	0.0006	U	#	0.0006	-	
	mg/L	0933	06/05/1999	0001	0.0025	B	#	-	-	
	mg/L	0934	06/05/1999	0001	0.0007	B	#	-	-	
	mg/L	0935	06/05/1999	0001	0.0006	U	#	0.0006	-	
	mg/L	0936	06/05/1999	0001	0.0006	U	#	0.0006	-	
	mg/L	0942	06/04/1999	0001	0.0006	U	#	0.0006	-	

RECORDS: SELECTED FROM USEE800 WHERE site_code='SHP02' AND quality_assurance = TRUE AND (NOT (data_validation_qualifiers LIKE '*X*') OR IsNull(data_validation_qualifiers)) AND DATE_SAMPLED between #6/1/1999# and #6/30/1999#

SAMPLE ID CODES: 000X = Filtered sample (0.45 µm). N00X = Unfiltered sample. X = replicate number.

LAB QUALIFIERS:

- * Replicate analysis not within control limits.
- + Correlation coefficient for MSA < 0.995.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- C Pesticide result confirmed by GC-MS.
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- S Result determined by method of standard addition (MSA).
- U Analytical result below detection limit.
- W Post-digestion spike outside control limits while sample absorbance < 50% of analytical spike absorbance.
- D Analyte determined in diluted sample.
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- > Result above upper detection limit.

DATA QUALIFIERS:

- J Estimated value.
- G Possible grout contamination, pH > 9.
- R Unusable result.
- U Parameter analyzed for but was not detected.
- F Low flow sampling method used.
- L Less than 3 bore volumes purged prior to sampling.
- X Location is undefined.

QA QUALIFIER: # = validated according to Quality Assurance guidelines.

Equipment Blank Data for Shiprock 6/99 Sampling Event

9/8/99

ANALYTE	SITE CODE	LOCATION CODE	DATE	SAMPLE ID	UNIT	RESULT	LAB QUALIFIERS	DATA VAL QUALIFIERS	DETECTION LIMIT	UNCERTAINTY
1,1,1,2-Tetrachloroethane	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
1,1,1-Trichloroethane	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
1,1,2,2-Tetrachloroethane	SHP01	0999	6/1/1999	N001	ug/L	10 U			10	
1,1,2-Trichloroethane	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
1,1-Dichloroethane	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
1,1-Dichloroethene	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
1,1-Dichloropropene	SHP01	0999	6/1/1999	N001	ug/L	10 U			10	
1,2,3-Trichloropropane	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
1,2,4-Trimethylbenzene	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
1,2-Dibromo-3-chloropropane	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
1,2-Dibromoethane	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
1,2-Dichlorobenzene	SHP01	0999	6/1/1999	N001	ug/L	10 U			10	
1,2-Dichloroethane	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
1,2-Dichloropropane	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
1,3,5-Trimethylbenzene	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
1,3-Dichlorobenzene	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
1,3-Dichloropropane	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
1,4-Dichlorobenzene	SHP01	0999	6/1/1999	N001	ug/L	10 U			10	
2,2-Dichloropropane	SHP01	0999	6/1/1999	N001	ug/L	10 U			10	
2-Butanone	SHP01	0999	6/1/1999	N001	ug/L	10 U			10	
2-Chlorotoluene	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
2-Hexanone	SHP01	0999	6/1/1999	N001	ug/L	10 U			10	
4-Chlorotoluene	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
4-Methyl-2-Pentanone	SHP01	0999	6/1/1999	N001	ug/L	10 U			10	
Acetone	SHP01	0999	6/1/1999	N001	ug/L	10 U		R	10	
Ammonia as NH4	SHP01	0999	6/5/1999	0001	mg/L	0.0122	B	RU		
Ammonia as NH4	SHP02	0999	6/6/1999	0001	mg/L	0.0037	B	RU		
Ammonia as NH4	SHP02	0999	6/8/1999	0001	mg/L	0.0055	B	RU		
Ammonia as NH4	SHP01	0999	6/6/1999	0001	mg/L	0.0031	B	RU		
Antimony	SHP01	0999	6/5/1999	0001	mg/L	0.00097	B	U		
Antimony	SHP01	0999	6/6/1999	0001	mg/L	0.0003	U		0.0003	
Antimony	SHP02	0999	6/8/1999	0001	mg/L	0.00041	B	U		
Antimony	SHP02	0999	6/6/1999	0001	mg/L	0.001	B	U		
Arsenic	SHP01	0999	6/5/1999	0001	mg/L	0.001	U		0.001	
Arsenic	SHP02	0999	6/8/1999	0001	mg/L	0.001	UN	J	0.001	
Arsenic	SHP02	0999	6/6/1999	0001	mg/L	0.001	U		0.001	
Arsenic	SHP01	0999	6/6/1999	0001	mg/L	0.001	U		0.001	
Benzene	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
Bromobenzene	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
Bromochloromethane	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
Bromodichloromethane	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
Bromoform	SHP01	0999	6/1/1999	N001	ug/L	10 U			10	
Bromomethane	SHP01	0999	6/1/1999	N001	ug/L	10 U			10	
Cadmium	SHP01	0999	6/5/1999	0001	mg/L	0.0003	U		0.0003	

Equipment Blank Data for Shiprock 6/99 Sampling Event

9/8/99

ANALYTE	SITE CODE	LOCATION CODE	DATE	SAMPLE ID	UNIT	RESULT	LAB QUALIFIERS	DATA VAL QUALIFIERS	DETECTION LIMIT	UNCERTAINTY
Cadmium	SHP02	0999	6/6/1999	0001	mg/L	0.0003	U		0.0003	
Cadmium	SHP02	0999	6/8/1999	0001	mg/L	0.0003	U		0.0003	
Cadmium	SHP01	0999	6/6/1999	0001	mg/L	0.0003	U		0.0003	
Calcium	SHP01	0999	6/5/1999	0001	mg/L	0.191	B			
Calcium	SHP02	0999	6/6/1999	0001	mg/L	0.127	B			
Calcium	SHP02	0999	6/8/1999	0001	mg/L	0.137	B			
Calcium	SHP01	0999	6/6/1999	0001	mg/L	0.0354	U		0.0354	
Carbon Disulfide	SHP01	0999	6/1/1999	N001	ug/L	5	U		5	
Carbon tetrachloride	SHP01	0999	6/1/1999	N001	ug/L	5	U		5	
Chloride	SHP01	0999	6/5/1999	0001	mg/L	0.102	U		0.102	
Chloride	SHP01	0999	6/6/1999	0001	mg/L	0.102	U		0.102	
Chloride	SHP02	0999	6/8/1999	0001	mg/L	0.28	B			
Chloride	SHP02	0999	6/6/1999	0001	mg/L	0.102	U		0.102	
Chlorobenzene	SHP01	0999	6/1/1999	N001	ug/L	5	U		5	
Chlorodibromomethane	SHP01	0999	6/1/1999	N001	ug/L	5	U		5	
Chloroethane	SHP01	0999	6/1/1999	N001	ug/L	10	U		10	
Chloroform	SHP01	0999	6/1/1999	N001	ug/L	5	U		5	
Chloromethane	SHP01	0999	6/1/1999	N001	ug/L	10	U		10	
Dibromomethane	SHP01	0999	6/1/1999	N001	ug/L	5	U		5	
Dichlorodifluoromethane	SHP01	0999	6/1/1999	N001	ug/L	5	U	R	5	
Ethylbenzene	SHP01	0999	6/1/1999	N001	ug/L	5	U		5	
Gross Alpha	SHP01	0999	6/5/1999	0001	pCi/L	1.3	U		1.3	0.62
Gross Alpha	SHP02	0999	6/8/1999	0001	pCi/L	1.31	U		1.31	0.76
Gross Alpha	SHP01	0999	6/6/1999	0001	pCi/L	1.29	U		1.29	0.63
Gross Alpha	SHP02	0999	6/6/1999	0001	pCi/L	0.77	U	J	0.77	0.5
Gross Beta	SHP01	0999	6/5/1999	0001	pCi/L	2.29	U		2.29	1.29
Gross Beta	SHP02	0999	6/8/1999	0001	pCi/L	2.3	U		2.3	1.35
Gross Beta	SHP02	0999	6/6/1999	0001	pCi/L	1.79	U		1.79	1.02
Gross Beta	SHP01	0999	6/6/1999	0001	pCi/L	2.29	U		2.29	1.28
Iodomethane	SHP01	0999	6/1/1999	N001	ug/L	5	U		5	
Iron	SHP01	0999	6/5/1999	0001	mg/L	0.007	B	U		
Iron	SHP02	0999	6/8/1999	0001	mg/L	0.0059	U		0.0059	
Iron	SHP02	0999	6/6/1999	0001	mg/L	0.0059	U		0.0059	
Iron	SHP01	0999	6/6/1999	0001	mg/L	0.0059	U		0.0059	
Isopropylbenzene	SHP01	0999	6/1/1999	N001	ug/L	5	U		5	
Magnesium	SHP01	0999	6/5/1999	0001	mg/L	0.0376	B			
Magnesium	SHP01	0999	6/6/1999	0001	mg/L	0.0311	U		0.0311	
Magnesium	SHP02	0999	6/6/1999	0001	mg/L	0.0311	U		0.0311	
Magnesium	SHP02	0999	6/8/1999	0001	mg/L	0.0311	U		0.0311	
Manganese	SHP01	0999	6/5/1999	0001	mg/L	0.0009	U		0.0009	
Manganese	SHP01	0999	6/6/1999	0001	mg/L	0.0015	B			
Manganese	SHP02	0999	6/6/1999	0001	mg/L	0.0009	U		0.0009	
Manganese	SHP02	0999	6/8/1999	0001	mg/L	0.0009	U		0.0009	
Methylene chloride	SHP01	0999	6/1/1999	N001	ug/L	10	U		10	

Equipment Blank Data for Shiprock 6/99 Sampling Event

9/8/99

ANALYTE	SITE CODE	LOCATION CODE	DATE	SAMPLE ID	UNIT	RESULT	LAB QUALIFIERS	DATA VAL QUALIFIERS	DETECTION LIMIT	UNCERTAINTY
Nitrate	SHP01	0999	6/5/1999	0001	mg/L	1.29				
Nitrate	SHP01	0999	6/6/1999	0001	mg/L	0.064	B	U		
Nitrate	SHP02	0999	6/6/1999	0001	mg/L	1.19				
Nitrate	SHP02	0999	6/8/1999	0001	mg/L	0.0741	B	U		
Polonium-210	SHP01	0999	6/5/1999	0001	pCi/L	0.17	U		0.17	0.16
Polonium-210	SHP01	0999	6/6/1999	0001	pCi/L	0.26	U		0.26	0.25
Polonium-210	SHP02	0999	6/8/1999	0001	pCi/L	0.22	U		0.22	0.2
Polonium-210	SHP02	0999	6/6/1999	0001	pCi/L	0.22	U		0.22	0.22
Potassium	SHP01	0999	6/5/1999	0001	mg/L	0.0746	BE			
Potassium	SHP02	0999	6/8/1999	0001	mg/L	0.0544	B	U		
Potassium	SHP02	0999	6/6/1999	0001	mg/L	0.0445	U		0.0445	
Potassium	SHP01	0999	6/6/1999	0001	mg/L	0.072	B			
Radium-226	SHP01	0999	6/5/1999	0001	pCi/L	0.14	U		0.14	0.07
Radium-226	SHP01	0999	6/6/1999	0001	pCi/L	0.14	U		0.14	0.07
Radium-226	SHP02	0999	6/8/1999	0001	pCi/L	0.12	U		0.12	0.06
Radium-226	SHP02	0999	6/6/1999	0001	pCi/L	0.14	U		0.14	0.07
Radium-228	SHP01	0999	6/5/1999	0001	pCi/L	0.78	U		0.78	0.47
Radium-228	SHP01	0999	6/6/1999	0001	pCi/L	0.82	U		0.82	0.49
Radium-228	SHP02	0999	6/8/1999	0001	pCi/L	0.66	U	J	0.66	0.4
Radium-228	SHP02	0999	6/6/1999	0001	pCi/L	0.8	U		0.8	0.47
Selenium	SHP01	0999	6/5/1999	0001	mg/L	0.001	U		0.001	
Selenium	SHP01	0999	6/6/1999	0001	mg/L	0.001	U		0.001	
Selenium	SHP02	0999	6/8/1999	0001	mg/L	0.001	U		0.001	
Selenium	SHP02	0999	6/6/1999	0001	mg/L	0.001	U		0.001	
Sodium	SHP01	0999	6/5/1999	0001	mg/L	0.863	U		0.863	
Sodium	SHP01	0999	6/6/1999	0001	mg/L	0.863	U		0.863	
Sodium	SHP02	0999	6/8/1999	0001	mg/L	0.863	U		0.863	
Sodium	SHP02	0999	6/6/1999	0001	mg/L	0.863	U		0.863	
Strontium	SHP01	0999	6/5/1999	0001	mg/L	0.0011	B			
Strontium	SHP02	0999	6/8/1999	0001	mg/L	0.00087	B			
Strontium	SHP02	0999	6/6/1999	0001	mg/L	0.00062	B			
Strontium	SHP01	0999	6/6/1999	0001	mg/L	0.00029	B			
Styrene	SHP01	0999	6/1/1999	N001	ug/L	5	U		5	
Sulfate	SHP01	0999	6/5/1999	0001	mg/L	0.309	B			
Sulfate	SHP01	0999	6/6/1999	0001	mg/L	0.031	U		0.031	
Sulfate	SHP02	0999	6/8/1999	0001	mg/L	0.253	B	U		
Sulfate	SHP02	0999	6/6/1999	0001	mg/L	0.181	B			
Tetrachloroethene	SHP01	0999	6/1/1999	N001	ug/L	5	U		5	
Toluene	SHP01	0999	6/1/1999	N001	ug/L	5	U		5	
Total 1,2-Dichloroethene	SHP01	0999	6/1/1999	N001	ug/L	5	U		5	
Total Dissolved Solids	SHP01	0999	6/5/1999	0001	mg/L	22				
Total Dissolved Solids	SHP02	0999	6/6/1999	0001	mg/L	10	U		10	
Total Dissolved Solids	SHP02	0999	6/8/1999	0001	mg/L	80				
Total Dissolved Solids	SHP01	0999	6/6/1999	0001	mg/L	10	U		10	

Equipment Blank Data for Shiprock 6/99 Sampling Event

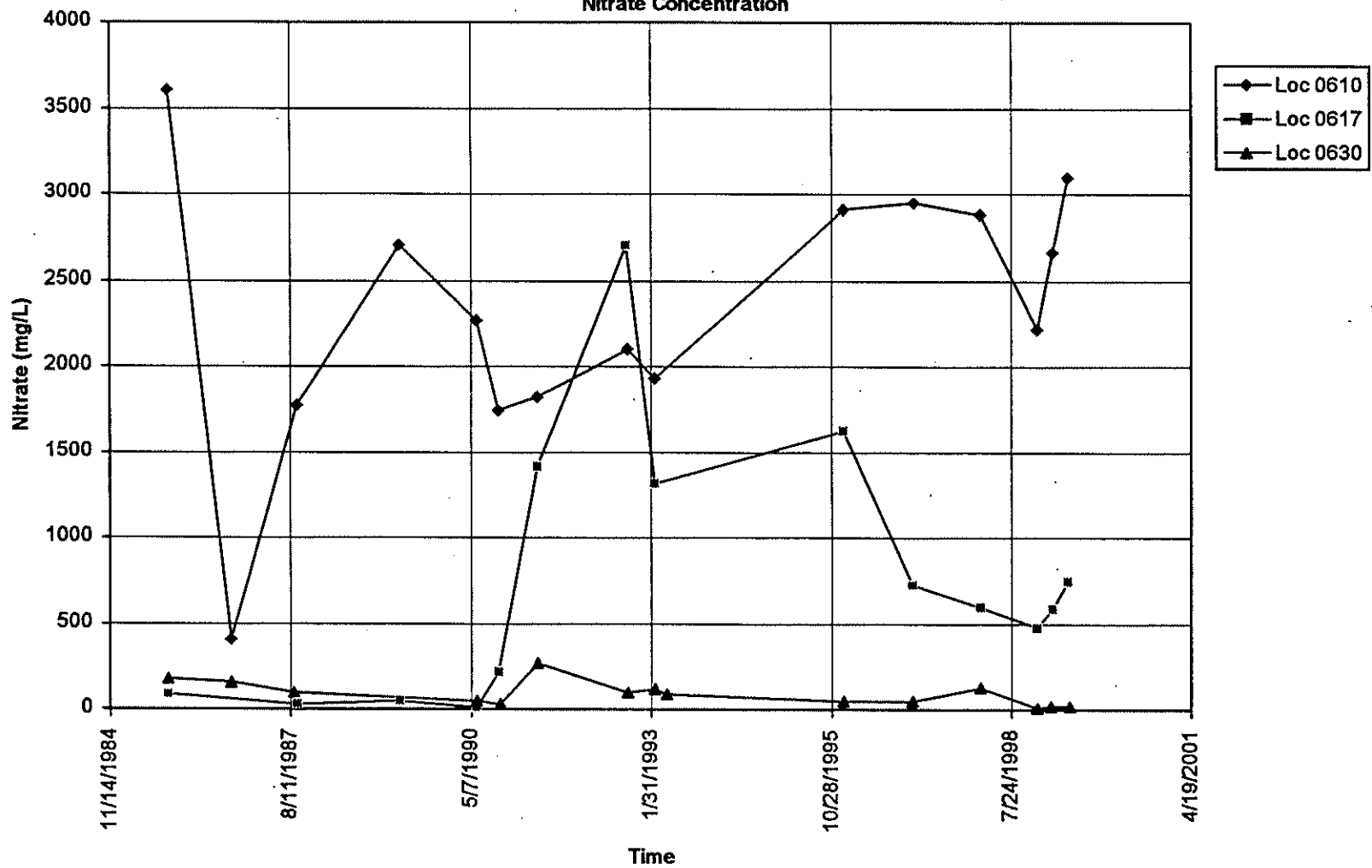
9/8/99

ANALYTE	SITE CODE	LOCATION CODE	DATE	SAMPLE ID	UNIT	RESULT	LAB QUALIFIERS	DATA VAL QUALIFIERS	DETECTION LIMIT	UNCERTAINTY
Total Xylenes	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
Trichloroethene	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
Trichlorofluoromethane	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
Trichlorotrifluoroethane	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
Uranium	SHP01	0999	6/5/1999	0001	mg/L	0.0002 U			0.0002	
Uranium	SHP01	0999	6/6/1999	0001	mg/L	0.0002 U			0.0002	
Uranium	SHP02	0999	6/6/1999	0001	mg/L	0.0002 U			0.0002	
Uranium	SHP02	0999	6/8/1999	0001	mg/L	0.0002 U			0.0002	
Vanadium	SHP01	0999	6/5/1999	0001	mg/L	0.0006 U			0.0006	
Vanadium	SHP01	0999	6/6/1999	0001	mg/L	0.0006 U			0.0006	
Vanadium	SHP02	0999	6/8/1999	0001	mg/L	0.0006 U			0.0006	
Vanadium	SHP02	0999	6/6/1999	0001	mg/L	0.0006 U			0.0006	
Vinyl chloride	SHP01	0999	6/1/1999	N001	ug/L	10 U			10	
cis-1,2-Dichloroethene	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
cis-1,3-Dichloropropene	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
m-Xylene	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
n-Butylbenzene	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
n-Propylbenzene	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
o-Xylene	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
p-Isopropyltoluene	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
sec-Butylbenzene	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
tert-Butylbenzene	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
trans-1,2-Dichloroethene	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	
trans-1,3-dichloropropene	SHP01	0999	6/1/1999	N001	ug/L	5 U			5	

TIME VERSUS CONCENTRATION GRAPHS

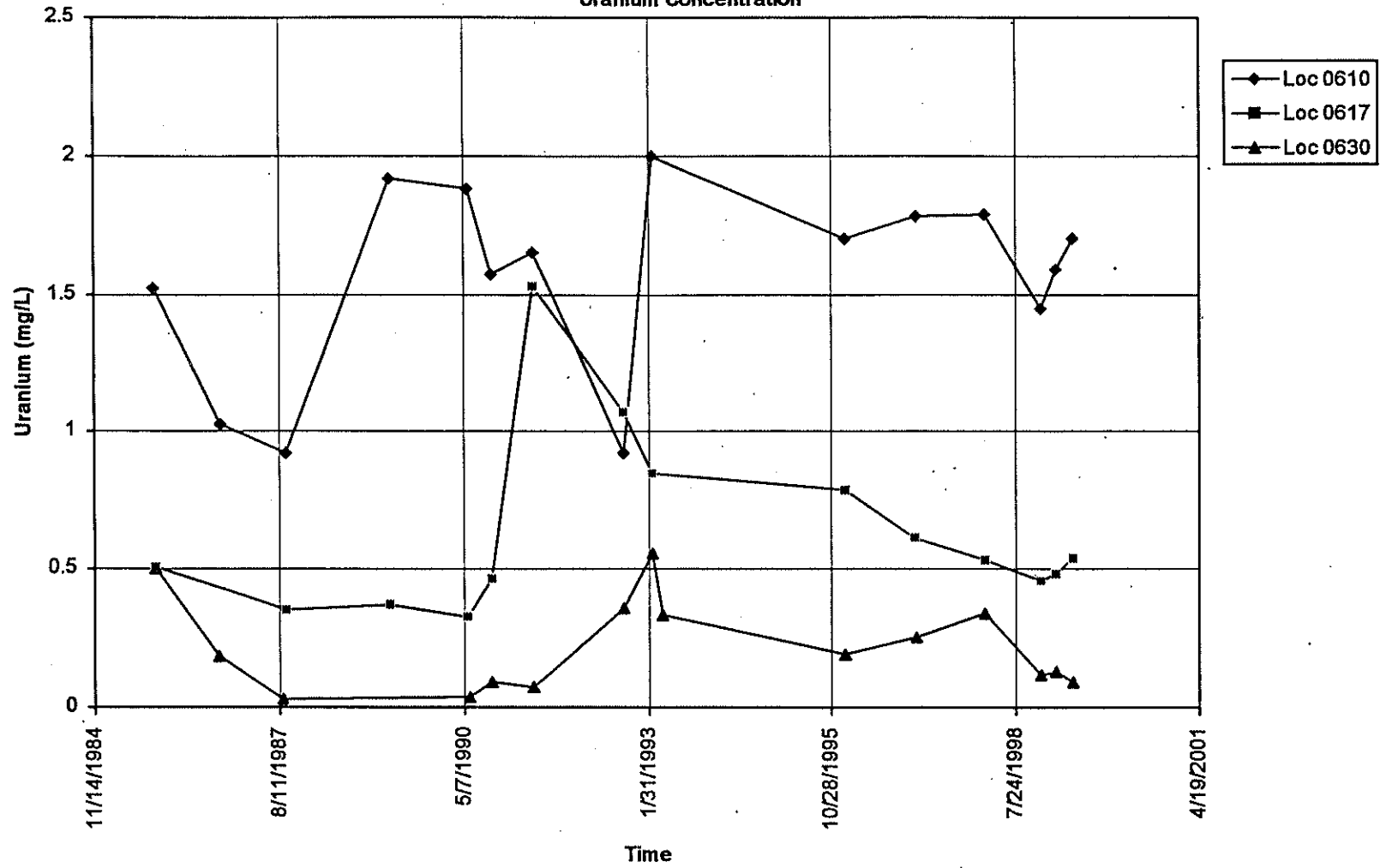
SHIPROCK (SHP01)

Nitrate Concentration

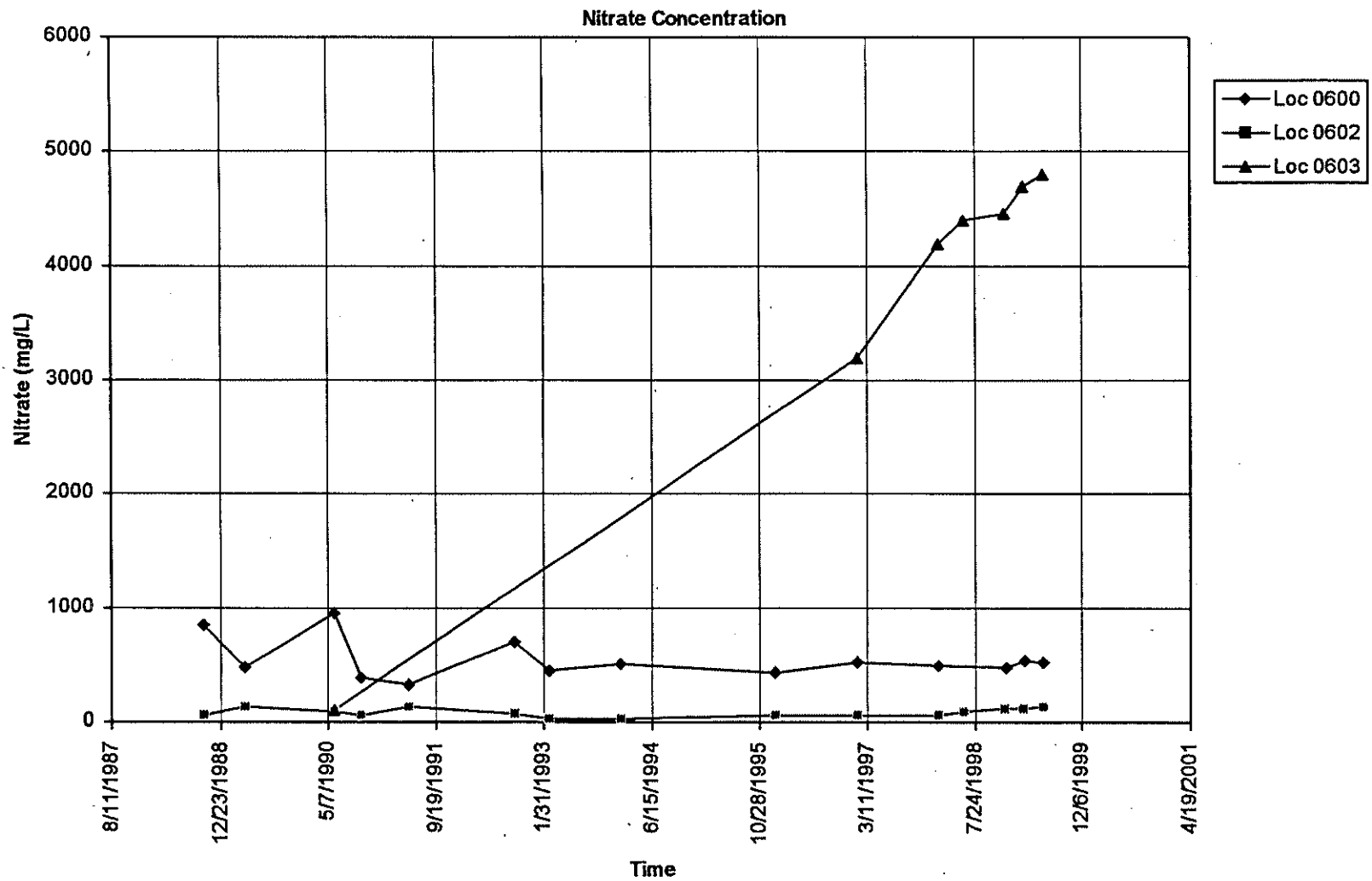


SHIPROCK (SHP01)

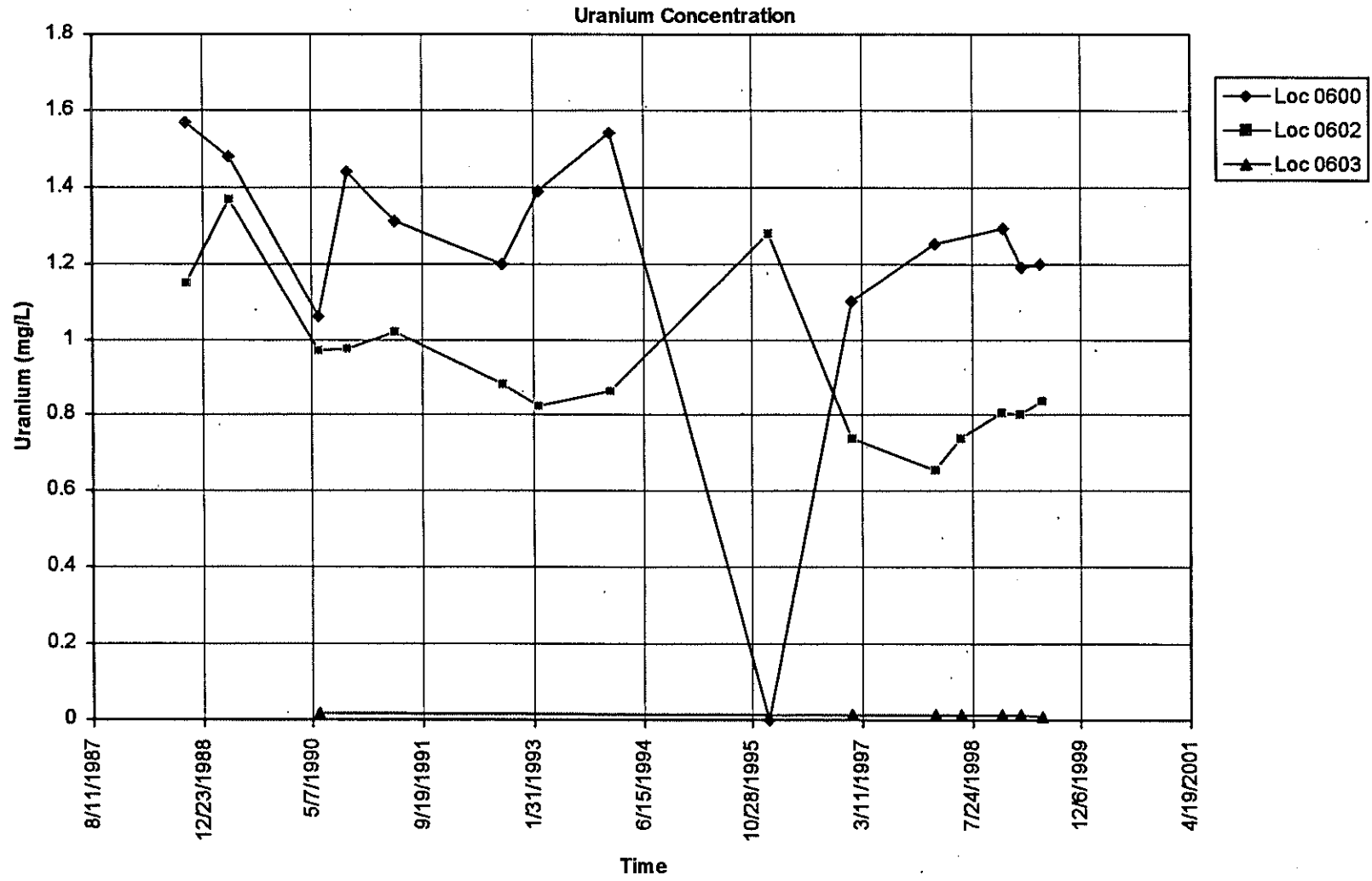
Uranium Concentration



SHIPROCK (TAILINGS AREA) (SHP02)



SHIPROCK (TAILINGS AREA) (SHP02)



WATER LEVELS

STATIC GROUND WATER LEVELS (USEE700) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 8/27/1999 12:54 pm

LOCATION CODE	FLOW CODE	TOP OF CASING ELEVATION (FT NGVD)	MEASUREMENT		DEPTH FROM TOP OF CASING (FT)	GROUND WATER ELEVATION (FT NGVD)
			DATE	TIME		
0608	D	4893.35	06/02/1999	08:52	4.75	4888.60
0609	D	4892.46	06/02/1999	08:50	3.90	4888.56
0610	D	4895.72	06/02/1999	08:56	8.66	4887.06
0611	D	4895.62	06/02/1999	09:00	8.58	4887.04
0612	D	4893.35	06/02/1999	09:32	5.62	4887.73
0613	D	4893.19	06/02/1999	09:10	6.99	4886.20
0614	D	4892.79	06/02/1999	09:12	6.61	4886.18
0615	D	4892.23	06/02/1999	09:15	6.59	4885.64
0616	D	4891.90	06/02/1999	09:45	6.15	4885.75
0617	D	4891.90	06/02/1999	09:47	6.65	4885.25
0618	D	4891.51	06/02/1999	09:49	6.15	4885.36
0619	D	4892.19	06/02/1999	09:52	7.32	4884.87
0620	D	4889.72	06/02/1999	10:04	4.29	4885.43
0621	D	4890.20	06/02/1999	10:05	4.76	4885.44
0622	D	4890.06	06/02/1999	10:07	4.64	4885.42
0623	D	4891.19	06/02/1999	09:58	6.36	4884.83
0624	D	4891.49	06/02/1999	09:57	6.52	4884.97
0625	D	4891.23	06/02/1999	09:56	6.28	4884.95
0626	D	4891.40	06/02/1999	10:10	6.06	4885.34
0627	D	4889.41	06/02/1999	10:12	3.98	4885.43
0628	D	4889.87	06/02/1999	10:11	4.44	4885.43
0629	D	4887.49	06/02/1999	10:49	1.68	4885.81
0630	D	4887.62	06/02/1999	10:50	1.78	4885.84
0631	D	4889.95	06/02/1999	18:09	8.14	4881.81
0632	D	4890.01	06/02/1999	18:08	8.15	4881.86
0670	D	4892.67	06/02/1999	18:30	7.66	4885.01
0671	D	4892.65	06/02/1999	18:34	7.42	4885.23
0733	N	4889.67	06/02/1999		4.50	4885.17
0734	N	4886.55	06/02/1999		2.83	4883.72

STATIC GROUND WATER LEVELS (USEE700) FOR SITE SHP01, SHIPROCK
 REPORT DATE: 8/27/1999 12:54 pm

LOCATION CODE	FLOW CODE	TOP OF CASING ELEVATION (FT NGVD)	MEASUREMENT		DEPTH FROM TOP OF CASING (FT)	GROUND WATER ELEVATION (FT NGVD)
			DATE	TIME		
0735	N	4895.85	06/02/1999		3.32	4892.53
0736	N	4887.99	06/02/1999	10:25	4.21	4883.78
0850	N	4907.51	06/02/1999	15:19	7.48	4900.03
0851	N	4906.45	06/02/1999	15:19	6.50	4899.95
0852	N	4907.37	06/02/1999	15:20	7.39	4899.98
0853	N	4891.41	06/02/1999	09:25	1.56	4889.85
0854	N	4890.75	06/02/1999	10:16	5.97	4884.78
0855	N	4888.18	06/02/1999	10:28	4.62	4883.56
0856	N	4887.57	06/02/1999	10:34	4.33	4883.24
0857	N	4894.02	06/02/1999	09:44	7.64	4886.38
0858	N	4893.50	06/02/1999	09:23	5.84	4887.66
0859	N	4893.68	06/02/1999	09:22	6.03	4887.65
0860	N	4892.28	06/02/1999	09:21	85.89	4806.39
0861	N	4891.32	06/02/1999	09:18	138.50	4752.82
0862	N	4893.83	06/02/1999	08:45	93.07	4800.76
0863	N	4893.00	06/02/1999	09:17	120.57	4772.43

RECORDS: SELECTED FROM USEE700 WHERE site_code='SHP01' AND LOG_DATE between #6/1/1999# and #6/15/1999#

FLOW CODES:

D DOWN GRADIENT

N UNKNOWN

STATIC GROUND WATER LEVELS (USEE700) FOR SITE SHP02, SHIPROCK (TAILING
 REPORT DATE: 8/27/1999 12:57 pm

LOCATION CODE	FLOW CODE	TOP OF CASING ELEVATION (FT NGVD)	MEASUREMENT		DEPTH FROM TOP OF CASING (FT)	GROUND WATER ELEVATION (FT NGVD)
			DATE	TIME		
0600	O	4955.87	06/02/1999	12:07	33.13	4922.74
0602	O	4956.89	06/02/1999	13:46	19.09	4937.80
0603	N	4978.62	06/02/1999	11:13	29.95	4948.67
0604	N	4995.87	06/02/1999		51.56	4944.31
0725	N	4908.58	06/02/1999	10:53	14.06	4894.52
0726	N	4939.95	06/02/1999	10:56	24.96	4914.99
0727	N	4940.65	06/02/1999	11:07	6.49	4934.16
0728	N	4964.46	06/02/1999	14:17	25.98	4938.48
0730	N	4979.74	06/02/1999	16:31	37.95	4941.79
0731	N	4972.15	06/02/1999	11:16	23.74	4948.41
0733	N	-	06/02/1999	18:16	6.14	-6.14
0800	N	4995.76	06/02/1999	14:10		-
0801	N	4995.29	06/02/1999	14:06	66.72	4928.57
0802	N	4996.01	06/02/1999	15:39		-
0803	N	4994.40	06/02/1999	14:14		-
0804	N	4936.93	06/02/1999	11:24		-
0805	N	4953.14	06/02/1999	11:19	52.98	4900.16
0810	N	5049.58	06/02/1999	15:55	89.39	4960.19
0813	N	4984.37	06/02/1999	14:29	43.15	4941.22
0814	N	4968.12	06/02/1999	14:22	30.92	4937.20
0815	N	4953.67	06/02/1999		25.44	4928.23
0816	N	4937.92	06/02/1999	13:28	24.72	4913.20
0818	N	4998.25	06/02/1999	14:41	54.00	4944.25
0819	N	4955.76	06/02/1999	13:56	19.34	4936.42
0820	N	4954.95	06/02/1999	12:10	150.59	4804.36
0821	N	4955.46	06/02/1999	12:15	102.65	4852.81
0822	N	4954.42	06/02/1999		202.30	4752.12
0823	N	4957.65	06/02/1999		101.20	4856.45
0824	N	4958.21	06/02/1999		178.10	4780.11

STATIC GROUND WATER LEVELS (USEE700) FOR SITE SHP02, SHIPROCK (TAILING
 REPORT DATE: 8/27/1999 12:57 pm

LOCATION CODE	FLOW CODE	TOP OF CASING ELEVATION (FT NGVD)	MEASUREMENT		DEPTH FROM TOP OF CASING (FT)	GROUND WATER ELEVATION (FT NGVD)
			DATE	TIME		
0825	N	4958.68	06/02/1999		153.63	4805.05
0826	N	4950.73	06/02/1999	13:59	16.64	4934.09
0827	N	4946.92	06/02/1999		24.85	4922.07
0828	N	4949.34	06/02/1999	14:08	13.79	4935.55
0829	N	4941.94	06/02/1999	11:01	52.08	4889.86
0830	N	4960.77	06/02/1999	11:37	9.35	4951.42
0832	N	4964.65	06/02/1999	13:25	27.51	4937.14
0833	N	4940.52	06/02/1999	12:54	27.46	4913.06
0835	N	4930.48	06/02/1999	13:02	18.12	4912.36
0836	N	4901.74	06/02/1999	11:54	24.04	4877.70
0837	N	4889.54	06/02/1999	11:25	15.45	4874.09
0838	N	4937.70	06/02/1999	12:48	24.80	4912.90
0839	N	4943.21	06/02/1999	13:22	24.75	4918.46
0841	N	4984.05	06/02/1999	13:31	44.87	4939.18
0843	N	4883.56	06/02/1999	11:44	11.12	4872.44
0844	N	4948.46	06/02/1999	13:15	30.60	4917.86
0845	N	4969.20	06/02/1999	13:19	31.72	4937.48
0846	N	4934.57	06/02/1999	12:35	24.17	4910.40
0847	N	4924.35	06/02/1999		13.94	4910.41
0848	N	4949.91	06/02/1999		37.81	4912.10
DM7	O	4974.50	06/02/1999	15:11	5024.90	-50.40
MW1	O	4955.64	06/02/1999	12:05	5008.58	-52.94

RECORDS: SELECTED FROM USEE700 WHERE site_code='SHP02' AND LOG_DATE between #6/1/1999# and #6/15/1999#

FLOW CODES:

N UNKNOWN

O ON-SITE

**SAMPLING WORK ORDER AND
TRIP REPORT**



USHP009253

CONTRACT NO.: DE-AC13-96GJ87335
TASK ORDER NO.: MAC99-05
CONTROL NO.: 3100-T99-0742

May 13, 1999

Project Manager
Department of Energy
Grand Junction Office
2597 B3/4 Road
Grand Junction, CO 81503
ATTN: Donald Metzler

SUBJECT: Contract No. DE-AC13-96GJ87335—June 1999 UMTRA Ground Water Sampling at Shiprock, New Mexico

Dear Mr. Metzler:

Water quality data will be collected from monitor wells at this site as part of the routine UMTRA Ground Water sampling which is scheduled to begin June 1, 1999, rather than May 1, 1999, as previously stated in the May 3 letter.

The following lists show the Ground Water Project well locations (with the associated zone of completion) and surface water locations that will be sampled during this sampling event.

Ground Water Project Monitor Wells (filtered)*

SHP01

608 Km	616 Al	626 Al	732 Al/Km	850 Al	854 Al	860 Km
610 Al	617 Al	628 Al	733 Al	851 Al	855 Al	861 Km
612 Al	619 Al	630 Al	734 Al	852 Al	856 Al	862 Km
614 Al	620 Al	631 Al	735 Al	853 Al	857 Al	863 Km
615 Al	624 Al	632 Al	736 Al			

SHP02

600 Km	728 Al/Km	804 Km	816 Al/Km	825 Km	833 Al	843 Al
602 Km	730 Al/Km	805 Km	819 Km	826 Al/Km	835 Al	844 Al/Km
603 Al/Km	731 Al/Km	810 Km	820 Km	827 Al/Km	836 Al	845 Al
604 Km	800 Km	812 Al/Km	821 Km	828 Al/Km	837 Al	846 Al/Km
725 Al/Km	801 Km	813 Al/Km	822 Km	829 Km	838 Al	847 Al/Km
726 Km	802 Km	814 Al/Km	823 Km	830 Km	839 Al/Km	848 Al/Km
727 Km	803 Km	815 Al/Km	824 Km	832 Al/Km	841 Al	

*NOTE: Al = Alluvium; Km = Mancos Shale

RECORD COPY

2597 B 3/4 ROAD
GRAND JUNCTION, COLORADO 81503
970/248-6000 (FAX) 970/248-6040

Handwritten signature/initials

Donald Metzler
May 3, 1999
Page 2
Control No.: 3100-T99-0742

Surface Water (filtered)

SHP01

425	553	657	888	895	898	941
426	555	658	893	896	939	942
546	655	887	894	897	940	943
548	656					

SHP02

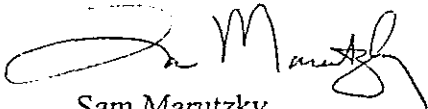
662	885	889	933	934	935	936
884	886					

In addition to routine monitoring, organic analyses will be performed on the following wells: 819, 823, 826, 827, 828, 829, and 830.

QA/QC samples will be collected as directed in the *Sampling and Analysis Plan for the UMTRA Ground Water Project*. Samples collected for alkalinity will be filtered and unfiltered. Water level information will be collected from the sampled wells only. Monitor well inspections will be conducted and documented to confirm the status of all sampled wells. Access agreements are being reviewed and are expected to be completed by the beginning of fieldwork.

If you have any questions, please call me at extension 6059 or Dave Miller at extension 6652.

Sincerely,



Sam Marutzky
Project Manager

SM/lcg/ld
Attachments

cc w/o att: R. Bowen
D. E. Miller
K. E. Miller
D. G. Traub
Contract File (C. Spor)

cc w/att: C. Bahrke
C. Goodknight
R. Chessmore
Project Record File GWSHP 14.06 thru P. Taylor

Sampling Frequencies for Locations at
Shiprock, New Mexico

Location	Quarterly	Tri-annually	Annually	Biennially	Not Sampled	Notes
<i>Ground Water Project Monitor Wells</i>						
SHP01						
608		X				
610		X				
612		X				
614		X				
615		X				
616		X				DATA LOGGER
617		X				DATA LOGGER
619		X				
620		X				
624		X				
626		X				
628		X				
630		X				
631		X				North of river
632		X				North of river
732		X				North of river
733		X				North of river
734		X				
735		X				
736		X				
850		X				
851		X				
852		X				
853		X				
854		X				
855		X				
856		X				
857		X				DATA LOGGER
860		X				
861		X				No water
862		X				
863		X				
SHP02						
600		X				
602		X				DATA LOGGER
603		X				
604		X				
725		X				
726		X				
727		X				
728		X				DATA LOGGER
730		X				DATA LOGGER
731		X				DATA LOGGER
800		X				No water
801		X				No water
802		X				No water
803		X				No water

**Sampling Frequencies for Locations at
Shiprock, New Mexico**

Location	Quarterly	Tri-annually	Annually	Biennially	Not Sampled	Notes
SHP02						
804		X				No water
805		X				No water
810		X				No water
812		X				
813		X				
814		X				
815		X				
816		X				
819		X				
820		X				
821		X				No water
822		X				No water
823		X				No water
824		X				
825		X				No water
826		X				DATA LOGGER
827		X				DATA LOGGER
828		X				
829		X				
830		X				DATA LOGGER
832		X				
833		X				
835		X				DATA LOGGER
836		X				DATA LOGGER
837		X				DATA LOGGER
838		X				
839		X				
841		X				DATA LOGGER
843		X				DATA LOGGER
844		X				
845		X				No water
846		X				DATA LOGGER
847		X				DATA LOGGER
848		X				DATA LOGGER
Surface Water/Sediment Locations						
SHP01						
425		X				
426		X				
546		X				North of River
548		X				North of River
549					X	Replaced by 895
551					X	Replaced by 894
553		X				
555		X				
556					X	Replaced by 895
655		X				
656		X				No water
657		X				No water
658		X				
887		X				Distributary channel

**Sampling Frequencies for Locations at
Shiprock, New Mexico**

Location	Quarterly	Tri-annually	Annually	Biennially	Not Sampled	Notes
<i>Surface Water/Sediment Locations</i>						
SHP01 (continued)						
888		X				
893		X				
894		X				
895		X				
896		X				
897		X				
898		X				
939		X				Distributary channel
940		X				Just NE of 854
941		X				Just N of 856
942		X				Just out from 894
943		X				Just out from 894
SHP02						
662		X				Lower Bob Lee Wash
884		X				Irrigation return flow
885		X				Upper Bob Lee Wash
886		X				Many Devils Wash
889		X				Many Devils Wash
933		X				1st wash W of Highway 666
934		X				2nd wash W of Highway 666
935		X				Seep near 1st wash
936		X				Seep between 1st & 2nd washes

**Constituent Sampling Breakdown
For Individual UMTRA Sites**

Site	Shiprock	
	Ground Water	Surface Water
Analyte		
Approx. No. Samples/yr	149	51
<i>Field Measurements</i>	<i>GW</i>	<i>GW</i>
Alkalinity	X	X
Dissolved Oxygen	X	X
Redox Potential	X	X
pH	X	X
Specific Conductance	X	X
Turbidity	X	
Temperature	X	X
<i>Laboratory Measurements</i>	<i>GW</i>	<i>GW</i>
Aluminum		
Ammonium	X	X
Antimony	X	X
Arsenic	X	X
Barium		
Beryllium		
Bromide		
Cadmium	X	X
Calcium	X	X
Chloride	X	X
Chromium		
Cobalt		
Copper		
Fluoride		
Gamma Spec		
Gross Alpha	X	X
Gross Beta		
Iron	X	X
Lead		
Lead-210		
Magnesium	X	X
Manganese	X	X
Molybdenum		

**Constituent Sampling Breakdown
For Individual UMTRA Sites**

Site	Shiprock	
	Ground Water	Surface Water
<i>Laboratory Measurements (Continued)</i>	GW	GW
Nickel		
Nickel-63		
Nitrate	X	X
Organics	819, 823, 826, 827, 828, 829, 830	
PCBs		
Phosphate		
Polonium-210	X	X
Potassium	X	X
Radium-226	X	X
Radium-228	X	X
Selenium	X	X
Silica		
Sodium	X	X
Strontium	X	X
Sulfate	X	X
Sulfide		
Thallium		
Thorium-230		
Tin		
Total Dissolved Solids	X	X
Total Organic Carbon		
Tritium		
Uranium	X	X
Vanadium		
Zinc		
Total Analytes	21	21

Note: All samples are considered filtered unless stated otherwise. All private well samples are to be unfiltered. The total number of analytes does not include field parameters.

* The left number represents Ground Water Project samples and the right number represents LTSM Project samples.

USHP000262



CONTRACT NO.: DE-AC13-96GJ87335
TASK ORDER NO.: MAC99-05
CONTROL NO.: 3100-N/A

MEMO TO: Sam Marutzky

FROM: Dan Sellers *[Signature]*

DATE: June 23, 1999

SUBJECT: UMTRA Ground Water Trip Report - Shiprock NM

Site: Shiprock

Dates of Sampling Event: June 1 through June 8, 1999

Team Members: Dave Traub, Paul Burdett, Tom Kirkpatrick, and Dan Sellers.

Number of Locations Sampled: 112 locations were scheduled for sampling during this event. This included wells, surface locations and seeps. Several of the wells and surface locations were dry. Table 1 lists each location and relevant information about each location, (i.e., requested sample to collect, any field variances or other comments). A total of 88 locations out of the requested 112 were sampled. One surface location (943) was determined to be unnecessary by the site lead.

Water samples collected at the following locations were analyzed for organics: 819, 826, 827, 828, and 830. Location 829 was not sampled due to insufficient water. Location 824 (next to 823) was sampled because 823 did not have sufficient amount of water. Analysis for total Kjeldahl Nitrogen was requested from water samples collected at locations 835, 836, and 846.

Locations Not Sampled: See Table 1. Wells 631 and 632 (by the True Value) could not be sampled due to hazardous waste that was exposed by workers at the nearby new recreational vehicle park. Several truckloads of sand were used to close the access routes and the fire department closed the entire area. Repeated calls to the local chapter safety supervisor were not returned.

Location Specific Information: See Table 1. Several locations could not be sampled for the entire analytes list because either the wells were dry or had insufficient amount of water after being purged and did not recover.

The data logger that was removed from well 847 (north high school well in shed) was installed in well 845. This well was dry at the time of data logger installation but may show water later due to recharge from the adjacent irrigation ditch. It was not flowing on June 2nd but there had been some recent water flow, although not long enough to kill any of the weeds growing in the ditch. When the logger was installed on June 8 the ditch was flowing.

The sample for surface location 893 was collected about 100 yards west of the original sample point due to the high water. The original sampling location was under water during this sampling event.

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Quality Control Sample Cross Reference: The following are the false identifications assigned to the quality control samples submitted to the GJO analytical laboratory:

Quality Control Sample Cross Reference			
False Location ID	True Location Number	Ticket number	Sample Type
Well 1003	847	NDF 332	Duplicate
Well 1005	856	NDF 356	Duplicate
Well 1006	662	NDF 367	Duplicate SURFACE
Well 1020	939	NDF 609	Duplicate SURFACE
Well 1021	835	NDF 610	Duplicate Kjeldahl Nitrogen
Well 1004	617	NDF 347	EB
Well 1007	N/A	NDF 368	EB
Well 1008	826	NDF 457	EB
Well 1022	852	NDF 623	EB
1002	N/A	NDF 327	Trip blank for VOCs

Requisition Numbers: There are two requisition numbers assigned for the UGW samples: 16594 and 16623. Several samples were transported to the laboratory on June 3 and June 7 in order to meet holding times for TDS. The remainder of the samples was delivered to sample receiving on June 9.

Water Level Measurements: Water level measurements were completed on all wells scheduled for sampling and others requested.

Well Inspection Summary: Well inspections were made on all wells scheduled for sampling.

Equipment: None.

Regulatory Issues: None

Site Issues: The discharge rate of the flowing well (Well 648) was measured on June 3 using a digital flow meter. The flow rate was measured for 30 minutes with the rate remaining constant at approximately 59 gpm. This well is also plumbed into a nearby stable. After the flow meter was connected there was a pressure increase which caused the leaky pipes in the stable to discharge an estimated 5 more gpm total. These leaks were measured using buckets and stopwatch. The total flow from the well was about 64 gpm.

A nearby resident talked to us during the test to see about shutting the well off now and then. I saw the geology professor at the local college during lunch later and he gave us his business card. I stopped by the residence several days later and suggested she contact the water authority folks behind Thriftway and also gave her the professor's card.

Sam Marutzky

June 23, 1999

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Control No.: 3100-N/A

The data logger that was removed from well 847 (north high school well in shed) was installed in well 845. This well was dry at the time of data logger installation but may show water later due to recharge from the adjacent irrigation ditch. It was not flowing on June 2nd but there had been some recent water flow, although not long enough to kill any of the weeds growing in the ditch. When the logger was installed on June 8 the ditch was flowing.

The sample for surface location 893 was collected about 100 yards west of the original sample point due to the high water. The original sampling location was under water during this sampling event.

Surface Location Number	Ticket Number	Sample Analytes							Comments/Notes
		METALS	Ra-226-Ra-228	Gross alpha	PO-210	Ammonia	NO3 / NH4	TDS	
895	NDF 350	X	X	X	X	X	X	X	
896	NDF 353	X	X	X	X	X	X	X	
897	NDF 369	X	X	X	X	X	X	X	
898	NDF 621	X	X	X	X	X	X	X	
933	NDF 612	X	X	X	X	X	X	X	
934	NDF 615	X	X	X	X	X	X	X	
935	NDF 611	X	X	X	X	X	X	X	
936	NDF 613	X	X	X	X	X	X	X	
939	NDF 604	X	X	X	X	X	X	X	
940	NDF 624	X	X	X	X	X	X	X	
941	NDF 625	X	X	X	X	X	X	X	
942	NDF 603	X	X	X	X	X	X	X	
656									DRY

DS/lcg

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 Project Record File GWSHP 14.12 thru P. Taylor