



**DATA VALIDATION  
FOR THE MOAB, UTAH  
UMTRA SITE**

**December 2002  
Water Sampling**

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



**MOAB, UTAH**  
December, 2002

**DATA PACKAGE CONTENTS**

This data package includes the following information:

Item No.      Description of Contents

1. **Site Hydrologist Summary.**
2. **Data Package Assessment**, which includes the following:
  - a. Field activities verification checklist.
  - b. Confirmation that chain-of-custody was maintained.
  - c. Confirmation that holding time requirements were met.
  - d. Evaluation of 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. **Suspected Anomalies Report (SAR)**, which is generated by the UMTRA database system. This report compares the new data set with historical data and designates "suspected anomalies" based on the many criteria listed as footnotes on each page. In aggregate, these criteria cause the suspected anomaly program to be very conservative; many of the data shown in the tables are not, in the evaluator's judgment, truly anomalies, but merely natural variations in data or routine changes in laboratory detection limits. The designation "OK" affirms the judgment that the particular entry is not an anomaly and, therefore, requires no further inquiry.
5. **Anomalous Data Review Checksheet**, which lists the subset of data from the Suspected Anomalies Report that merits explanation or follow-up action. The "Disposition" column of this report describes the evaluator's judgments on the listed anomalies.
6. **UMTRA Database Printouts.**
  - a. Ground-Water Quality Data.
  - b. Surface-Water Quality Data.
  - c. Water Level Data.
7. **Sampling and Analysis Work Order and Trip Report.**
8. **Ground Water Surface Elevation Contour Map and Sample Location Map.**

## **Site Hydrologist Summary**

**Site:** Moab, Utah

**Sampling Period:** December 2 to December 12, 2002

### **SUMMARY CRITERIA**

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

Domestic wells were not sampled during this event.

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

This quarterly sampling event was the fifth conducted by the U.S. Department of Energy (DOE). The DOE is in the process of preparing a Site Observational Work Plan (SOWP) which will incorporate the data in this package and historical data. An updated site conceptual model and contaminant plume movement will be addressed in the SOWP.

Three wells (M11-14, N7-10, and W1-7) on the Scott M. Matheson wetlands preserve, which is across the Colorado River to the east of the Moab Project Site, were sampled during this sampling event. Ammonium concentrations in these wells ranged from 0.3 to 2.4 mg/L and total dissolved solids (TDS) concentrations ranged from 52,200 to 57,000 mg/L. Because this was the first time these wells were sampled by DOE an additional follow-up sampling is planned to confirm the results from this sampling event.

A contour map of ground water elevations for the alluvial flow system is attached. The network of wells used to construct the ground water elevation contour map is provisional and will evolve as DOE continues to assess the usefulness of historical wells and as new wells are added to the network. Wells with sample concentrations that exceeded UMTRA ground water standards are listed in Table 1.

## Site Hydrologist Summary (continued)

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

As with ground water, a more complete assessment of impacts to surface water will be addressed as an updated conceptual site model is developed for the SOWP. Samples collected from the Colorado River adjacent to and downstream from the site were compared to benchmark values derived from location CR-1 (located upstream on the Colorado River). Manganese and molybdenum exceeded their upgradient benchmark value at one location each. Boron and strontium exceeded their upgradient benchmark value at two locations each. Ammonium, chloride, gross alpha, gross beta, sulfate, and uranium each exceeded benchmark values at several locations.

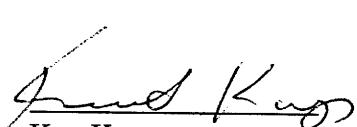
*Table 1. Moab Wells with Samples that Exceeded UMTRA Project Standards in December 2002 (Filtered Samples<sup>3</sup>).*

ANALYTE	STANDARD <sup>1</sup>	WELLS EXCEEDING STANDARDS (CONCENTRATION)
Arsenic	0.05	0414 (0.315)
Cadmium	0.01	0437 (0.0113)
Molybdenum	0.1	AMM-2 (1.23), AMM-3 (0.484), ATP-2-S (0.76), MW-1-R (8.43), MW-3 (1.22), OW-2 unfiltered (0.713), SMI-PZ3D2 (0.412), SMI-PZ3S (0.248), TP-02 (0.452), TP-07 (0.279), 0412 (0.687), 0414 (0.805), 0437 (7.15), 0438 (0.19), 0442 (2.26)
Net Alpha <sup>2</sup>	15	SMI-PZ3M (87.72), SMI-PZ3S (1142.36), 0412 (3177), 0414 (931.61), 0437 (564.2), 0438 (244.5), 0439 (79.37), 0457 (2526.18)
Nitrate	44.27	OW-2 unfiltered (52.1), SMI-PZ3D2 (142), SMI-PZ3S (61.6), 0412 (192), 0414 (346), 0437 (54.3), 0439 (137), 0442 (1800)
Radium 226+228	5	ATP-1-1D unfiltered (17.99), 0434 (5.18), 0435 (8.87), 0436 (11.66), 0444 (7.34), M11-14.0 (6.09), N7-10 (11.86), W1-7 (5.21)
Selenium	0.01	SMI-PZ3S (0.0527), OW-2 (0.0127), AMM-1 (0.0136), 0412 (0.0936), 0414 (0.167), 0437 (0.0771), 0440 (0.0525), 0442 (0.169), 0443 (0.0117), 0456 unfiltered (0.0292)
Uranium	0.044	AMM-2 (2.67), AMM-3 (1.92), ATP-2-D (0.1), ATP-2-S (2.72), MW-1-R (1.78), MW-3 (3.57), OW-2 (3.69), SMI-PZ3D2 (2.37), SMI-PZ3M (0.672), SMI-PZ3S (3.24), TP-01 (0.227), TP-02 (13), TP-07 (2.63), 0412 (12.2), 0414 (3.18), 0437 (3.15), 0438 (1.48), 0439 (0.865), 0442 (10.8)

<sup>1</sup> Standards are listed in 40 CFR 192.02 Table 1 to subpart A; units are in mg/L for metals and nitrate, and pCi/L for net alpha and radium isotopes.

<sup>2</sup> Uranium concentrations were converted to activity using the conversion factor of 687 pCi/mg and were subtracted from the gross alpha results in order to derive net alpha, which excludes uranium and radon. The analytical technique excludes radon.

<sup>3</sup> All results are for filtered samples unless otherwise noted.

  
Ken Karp  
Site Hydrologist

1/30/03  
Date

# **DATA ASSESSMENT**

# DATA PACKAGE ASSESSMENT

REQUISITION NUMBERS: 18241 SITE: Moab, UT. LABORATORY: GJO ANALYSIS DATES: 12/10/02 to 1/16/03

REVIEWER: DAVID MILLER  
NAME (print) D. Miller SIGNATURE D. Miller DATE 1/23/03

	ICP-MS	ICP-AES	GFAA	FAA	NaBH <sub>4</sub>	AS	LSc	PC	IC	Gravimetric	Colorimetric	Other (Hydrometer)
CHAIN OF CUSTODY	OK	OK	NA	NA	OK	NA	OK	OK	OK	OK	OK	OK
HOLDING TIME	OK	OK			OK		OK	OK	OK	OK	①	OK
CALIB. VERIFICATION (For AS, internal tracer)	OK	OK			OK		OK	OK	OK	NA	OK	NA
PREP. BLANKS (Only if digestion)	NA	③			NA	↓	OK	②	NA	NA	NA	NA
INT/CONT CAL. BLANKS	OK	④		↓	⑤	NA	NA	NA	⑥	NA	OK	NA
ICP SERIAL DILUTION	OK	⑦	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
DUPLICATES	OK	OK			OK	↓	OK	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			OK		OK	OK	OK	NA	OK	NA
OVERALL ASSESS.	OK	OK	↓	↓	OK	↓	OK	OK	OK	OK	OK	OK

DATA REQUIRING FLAGS: ① Holding time expired; J Flag affected ammonium results. ② Prep blank contamination; U Flag affected Gross alpha results. ③ Prep blank contamination; U Flag one iron result. ④ Continuing calibration blank (CCB) contamination; U Flag affected iron and strontium results. ⑤ CCB contamination; U Flag affected selenium result. ⑥ CCB contamination; U Flag affected Fluoride results. ⑦ Serial dilution outside control limits; J Flag affected results for barium, boron, lithium and manganese results.

## UGW Water Sampling Field Activities Verification Checklist

Project Moab, UT.  
Date(s) of Verification 1/27/03

Date(s) of Water Sampling 1/2/02 to 1/12/02  
Name of Verifier DAVID MILLER

1. Is the SAP the primary document directing field procedures?  
List other documents, SOP's, instructions.
2. Were the sampling locations specified in the planning documents sampled?
3. Was a pre-trip calibration conducted as specified in the above named documents?
4. Was an operational check of the field equipment conducted twice daily?  
Did the operational checks meet criteria?
5. Were the number and types (alkalinity, temperature, Ec, pH, turbidity, DO, ORP) of field measurements taken as specified?
6. Was the Category of the well documented?
7. Were the following conditions met when purging a Category I well:  
Were two pump/tubing volumes purged prior to sampling?  
Did the water level stabilize prior to sampling?  
Was a turbidity of less than 10 NTUs obtained prior to sampling?  
Was the flow rate less than 500 mL/min?  
If a portable pump was used, was there a 4 hour delay between pump installation and sampling?
8. Were the following conditions met when purging a Category II well:  
Was the flow rate less than 100 mL/min?

Response Comments  
(Yes, No, N/A)

Yes

work order letter dated 12/3/02

Yes

0410 <sup>0410</sup> and 0411, which were dry; and 459 which was obstructed.

Yes

only documented by 1 team

Yes

Yes

Yes

Yes

Yes

could not be measured in all wells (small dia. well/s)

Yes

Except: several wells where further development is needed with a few exceptions

Yes

N/A

Yes

## UGW Water Sampling Field Activities Verification Checklist (continued)

Were two pump/tubing volumes removed prior to sampling?	<u>Yes</u>	
Were water levels documented during the purge?	<u>Yes</u>	<i>except: small dia. wells</i>
9. Were duplicates taken at a frequency of one per 20 samples for ground water and surface water?	<u>Yes</u>	
10. Were equipment blanks taken at a frequency of one per 20 samples that were collected with nondedicated equipment?	<u>Yes</u>	
11. Were trip blanks prepared and included with each shipment of VOC samples?	<u>NA</u>	
12. Were QC samples assigned a fictitious site identification number?	<u>Yes</u>	
Was the true identity of the samples recorded on the Quality Assurance Sample Log?	<u>Yes</u>	
13. Were samples collected in the containers specified?	<u>Yes</u>	
14. Were samples filtered and preserved as specified?	<u>Yes</u>	
15. Were the number and types of samples collected as specified?	<u>Yes</u>	
16. Were chain of custody records completed and was sample custody maintained?	<u>Yes</u>	<i>except: where there was not enough water</i>
17. Are field data sheets signed and dated by both team members?	<u>Yes</u>	<i>- missed a few pages</i>
18. Was all other pertinent information documented on the field data sheets?	<u>Yes</u>	
19. Was the presence or absence of ice in the cooler documented at every sample location?	<u>Yes</u>	
20. Were water levels measured at the locations specified in the planning documents?	<u>Yes</u>	

**MOAB, UTAH**  
**DECEMBER 2002 SAMPLING EVENT**  
**DATA ASSESSMENT SUMMARY**

The DOE-GJO Analytical Laboratory analyzed samples and reported results for this sampling event under requisition number 18241, for the Moab project. Data qualification flags from this assessment are listed in the data qualifiers column in the database printouts.

**RADIOLOGICAL ANALYSES**

The determination of gross alpha and gross beta was performed by gas proportional counting (PC). Radium-226 and radium-228 were determined by liquid scintillation spectrometry (LSc). Except as noted, all quality control requirements were met during the course of these analyses.

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

Several gross alpha results were qualified with a "U" flag in the database because of prep blank (PB) contamination.

**METALS/MAJOR CATIONS ANALYSES**

The determinations of barium, boron, iron, lithium, manganese, molybdenum, sodium, strontium, and vanadium were done using an inductively coupled plasma-atomic emission spectrometer (ICP-AES). Cadmium, and uranium were analyzed by inductively coupled plasma-mass spectrometry (ICP-MS). Arsenic and selenium were analyzed by hydride generation atomic absorption spectroscopy (NaBH<sub>4</sub>). Except as noted, all quality control requirements were met during the course of these analyses.

One iron result received a "U" flag because of prep blank contamination.

Two iron results, one strontium result, and one selenium result received a "U" flag because of continuing calibration blank (CCB) contamination.

Several barium, boron, lithium, and manganese results received "J" flags (estimated value) because the results for the associated serial dilutions differed from the original results by more than 10 percent and the original results were more than 50 times the instrument detection limit.

**INORGANIC ANALYSES**

Chloride, fluoride, nitrate, and sulfate were determined by ion chromatography (IC). Ammonium was determined by spectrophotometry (colorimetry), and the determination of total dissolved solids (TDS) was done gravimetrically. Specific gravity was determined by hydrometer.

Several flouride results were qualified with a "U" flag in the database because of CCB contamination.

Most of the ammonium results received "J" flags in the database because holding times were exceeded. The recommended holding time of 28 days was exceeded by 6 to 8 days for 63 of the ammonium analyses. The ammonium results at these locations are lower than the concentrations from the previous sampling event (August 2002) for 55 of the 63 locations, indicating that some degradation of ammonium may have occurred as a result of the missed holding times.

## **FIELD ANALYSIS/ACTIVITIES**

All ground water results with, the exception of results from well , were qualified with an "F" flag in the database indicating the wells were purged and sampled using the low-flow sampling procedures.

Well 0537 was sampled with a bailer because the dedicated pump was inoperable during this sampling event. Sample location 0537 is a sump, which collects water wicked from the tailings pile.

Results for ground water samples from wells 0414, 0431, 0440, and 0455, were qualified with a "Q" flag in the database indicating that the data is considered qualitative due to the sampling technique. These wells produce less than 100 ml/minute resulting in excessive drawdown.

There was only one field variance during this sampling event; the low-flow purging criteria of less than 10 nephelometric turbidity units (NTUs) was not met at wells 0455, ATP-2-D, and TP-11. The field teams noted that these wells need additional development.

Three equipment blanks were collected for locations where samples were collected using non-dedicated equipment. The equipment blanks were analyzed for the same constituents as the Moab environmental samples. Concentrations measured in the equipment blanks were below their respective contract required detection limit; therefore equipment blank results are considered acceptable, with the exception of nitrate.

Nitrate was detected in one equipment blank at a concentration of 1.08 mg/L. After sampling at the Moab site was completed it was determined (based on results from other sites) that the sulfuric acid container that one of the two field teams was using to preserve nitrate samples was contaminated. The contamination was confirmed with blank samples submitted to the laboratory using the suspect sulfuric acid as a preservative, with results of approximately 1 mg/L for nitrate. As a result, all nitrate samples collected by this field team (and preserved with the contaminated acid) were qualified in the database. Nitrate values that were less than 5 mg/L (5 times the blank contamination) received "R" flags indicating the data is unusable, and values greater than 5 mg/L received "J" flags indicating the values are estimated. There were no samples other than nitrate collected at the Moab site where sulfuric acid was used as a preservative.

Three field duplicate samples were collected for the 57 ground water locations sampled and one duplicate was collected for the 16 surface water locations sampled. Duplicate samples were collected from wells AMM-1, OW-2 and 0430, and surface water location 0204. 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 the precision of the field duplicates. With the exception of one surface result for strontium, one fluoride result for ground water, and two iron results for ground water the duplicate results met the laboratory duplicate criteria of +/- 20 relative percent difference (20 RPD) and are considered acceptable.

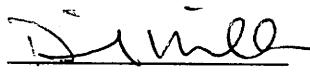
### **SUSPECTED ANOMALIES REPORT (SAR)**

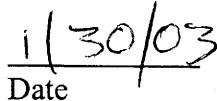
Values listed in the SAR were considered valid if: (1) identified low concentrations were the result of all-time high or low detection limits; (2) the concentration detected was within 50 percent of historical minimum or maximum values; (3) there were fewer than 5 historical samples for comparison. Results that did not meet these criteria are listed on the Anomalous Data Review Checksheet. These results will be compared to results of the next sampling round to make a final determination of validity

Five results were listed on the Anomalous Data Review from the data validation package for the June through September 2002 water sampling events. The disposition of these results was to compare them to the results of the next sampling event. However, of the listed results only zinc at well TP-07 and TDS at well 0537 were collected during this sampling event. Based on the results of this sampling event the zinc results from TP-07 (8/13/02) and the TDS result from 0537 (9/19/02) are considered acceptable with no 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/trip blank database printouts. The meaning of data qualifiers is defined on the UMTRA database printouts or 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.

  
David Miller  
Data Validation Lead

  
Date

**SAR**

## SUSPECTED ANOMALIES REPORT

REPORT DATE: 1/29/2003

TIME: 8:48:07 AM

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Site : MOA01 MOAB

Test Data Date Range : 12/2/2002 to 12/12/2002

Older Data Only Used for Baseline Data

868 Chemical Records

5320 History Records

LOC. ID.	ERR. TYPE FLAG	PARAM CODE UNITS	ANOMALOUS TEST DATA POINT			# OF SAMP. %NON DETEC	ALL TIME MINIMUMS ALL TIME MAXIMUMS	LOWER BOUND UPPER BOUND	3 MOST RECENT SAMPLING EVENTS												
			LOG DATE SAMPLE VALUE						LOG DATE SAMPLE VALUE			LOG DATE SAMPLE VALUE			LOG DATE SAMPLE VALUE						
			FLAGS	UNCERTAINTY	DETLIM				FLAGS	UNCERTAINTY	DETLIM	FLAGS	UNCERTAINTY	DETLIM	FLAGS	UNCERTAINTY	DETLIM				
0201	6 <i>OK</i>	Chloride mg/L	12/3/2002	0001	177.0000	4	126.000 0.401	129.000 0	107.4916 127.7861	8/13/2002 N001	0001 0.401	129.0000 0.401	8/13/2002 N001	0001 0.401	130.0000 0.401	5/20/2002 N001	0001 0.2005	126.0000 0.2005			
	5 <i>OK</i>	Mn mg/L	12/3/2002	BE	0.0144	4	0.004 0.0005	0.021 0.084	0.0205 0.1210	8/13/2002 N001	0001 0.0001111	0.0838 0.002	8/13/2002 B	0001 0.0018	0.0210 0.0057	5/20/2002 B	0001 0.0018	0.0044 0.0033			
	2 <i>OK</i>	Mo mg/L	12/3/2002	U	0.0090	4	0.003 0.009	0.003 0	0.0000 0.006	8/13/2002 N001	0001 B	0.0073 0.002	8/13/2002 B	0001 0.0018	0.0057 0.0018	5/20/2002 B	0001 0.0018	0.0033 0.0018			
	5 <i>OK</i>	Se mg/L	12/3/2002	0001	0.0077	4	0.004 0.0001	0.005 0	0.0089 0.0097	8/13/2002 N001	0001 0.0001111	0.0072 0.001	8/13/2002 B	0001 0.0001	0.0072 0.0001	5/20/2002 B	0001 0.0001	0.0051 0.0002			
	5 <i>OK</i>	SO4 mg/L	12/3/2002	0001	432.0000	4	277.000 0.394	301.000 0	511.2269 581.5137	8/13/2002 N001	0001 0.394	430.0000 0.394	8/13/2002 N001	0001 0.394	433.0000 0.394	5/20/2002 N001	0001 0.197	301.0000 0.197			
	5 <i>OK</i>	Sr mg/L	12/3/2002	0001	1.4600	4	0.951 0.0005	1.060 0	1.9458 2.2538	8/13/2002 N001	0001 0.0001111	1.5700 0.0001	8/13/2002 N001	0001 0.0001	1.6500 0.0001	5/20/2002 N001	0001 0.0001	1.0600 0.0001			
	5 <i>OK</i>	NH4 mg/L	12/3/2002	0001	31.7000	4	7.300 0.004	40.600 0	33.1638 41.400	9/18/2002 N001	0001 0.004	42.5000 0.004	9/18/2002 N001	0001 0.004	41.4000 0.004	5/23/2002 N001	0001 0.004	40.6000 0.004			
	0414	Chloride mg/L	12/4/2002	0001	1700.0000	2	691.000 2.005	694.000 0	345.5000 1388.0000	8/19/2002 N001	0001 0.802	694.0000 0.802	8/19/2002 N001	0001 0.802	691.0000 0.802	8/19/2002 N001	0001 0.802	691.0000 0.802			
		Fe mg/L	12/4/2002	0001	0.2970	2	0.004 0.0075	0.004 0.063	0.0020 0.1260	8/19/2002 N001	0001 0.0044444	0.0630 0.4540	8/19/2002 N001	0001 0.0502	0.0040 0.4540	8/19/2002 N001	0001 0.0502	0.0040 0.4540	8/19/2002 N001	0001 0.0502	0.0040 0.4540
		Fluoride mg/L	12/4/2002	0001	0.1130	1	0.454 0	0.454 0.454	0.1135 1.8160	8/19/2002 N001	0001 0.0502	0.4540 0.0502	8/19/2002 N001	0001 0.0502	0.4540 0.0502	8/19/2002 N001	0001 0.0502	0.4540 0.0502	8/19/2002 N001	0001 0.0502	0.4540 0.0502
		GA pCi/L	12/4/2002	0001	21.1700	2	14.970 100	15.030 15.030	0.0000 15.0300	8/19/2002 U	0001 8.95	14.9700 14.97	8/19/2002 U	0001 8.68	15.0300 15.03	8/19/2002 U	0001 8.68	15.0300 15.03	8/19/2002 N001	0001 8.68	15.0300 15.03
		GB pCi/L	12/4/2002	0001	30.1800	2	12.950 11.48	15.060 15.060	6.4750 30.1200	8/19/2002 N001	0001 8.16	15.0600 12.95	8/19/2002 U	0001 8.04	12.9500 12.95	8/19/2002 U	0001 8.04	12.9500 12.95	8/19/2002 N001	0001 8.04	12.9500 12.95
		Mn mg/L	12/4/2002	0001	1.0400	2	0.251 0	0.251 0.251	0.253 0.253	8/19/2002 0.5060	0001 0.0001	0.2510 0.0001	8/19/2002 N001	0001 0.0001	0.2530 0.0001111	8/19/2002 N001	0001 0.0001111	0.2530 0.0001111	8/19/2002 N001	0001 0.0001111	0.2530 0.0001111

Error Type Flags : 2 - All time high detection limit  
 3 - Too low (non-trend approach)  
 4 - Too high (non-trend approach)  
 5 - Too low (trend approach)  
 6 - Too high (trend approach)

Hydrologist "Ok" indicates insignificant variation

Flags : I - Increased detection limit due to required dilution.  
 L - Less than three bore volumes removed before sampling.  
 J - Estimated value.  
 H - Hold time expired, value suspect.

Approved by 

Date 1/29/03

## SUSPECTED ANOMALIES REPORT

REPORT DATE: 1/29/2003

TIME: 8:48:10 AM

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Site : MOA01 MOAB

Test Data Date Range : 12/2/2002 to 12/12/2002

Older Data Only Used for Baseline Data

868 Chemical Records

5320 History Records

LOC. ID.	ERR. TYPE FLAG	PARAM CODE UNITS	ANOMALOUS TEST DATA POINT			# OF SAMP. %NON DETEC	ALL TIME MINIMUMS MAXIMUMS	LOWER BOUND UPPER BOUND	3 MOST RECENT SAMPLING EVENTS									
			LOG DATE	SAMPLE	VALUE				LOG DATE	SAMPLE	VALUE	LOG DATE	SAMPLE	VALUE	LOG DATE	SAMPLE	VALUE	
			FLAGS	UNCERTAINTY	DETLM				FLAGS	UNCERTAINTY	DETLM	FLAGS	UNCERTAINTY	DETLM	FLAGS	UNCERTAINTY	DETLM	
0430	2	Mo mg/L	12/4/2002 U	0001	0.0090	2	0.007 0.008	0.008 0.008	0.0000 0.0080	8/19/2002 B	0001	0.0080	8/19/2002 N001	0.0067 0.002	8/19/2002 B	0001	0.0067 0.002	
	3	NH4 mg/L	12/4/2002 B	0001	0.0066	2	0.024 0.024	0.041 0.041	0.0122 0.0822	8/19/2002 B	N001	0.0411 0.004	8/19/2002 N001	0.0411 0.004	8/19/2002 B	0001	0.0243 0.004	
	3	NH4 mg/L	12/4/2002 U	0001	0.0040	2	0.024 0.024	0.041 0.041	0.0122 0.0822	8/19/2002 B	N001	0.0411 0.004	8/19/2002 N001	0.0411 0.004	8/19/2002 B	0001	0.0243 0.004	
	3	NO3 mg/L	12/4/2002 U	0001	0.0200	2	1.620 1.620	2.090 2.090	0.8100 4.1800	8/19/2002 0001		1.6200 0.02	8/19/2002 N001	2.0900 0.02	8/19/2002 N001	2.0900 0.02		
	3	ORP mV	12/4/2002	N001	35.3000	1	106.000 0	106.000 106.000	53.0000 212.0000	8/19/2002 N001		106.0000 0.02	8/19/2002 N001	106.0000 0.02	8/19/2002 N001	106.0000 0.02		
	3	Se mg/L	12/4/2002 B	0001	0.0003	2	0.003 0	0.004 0.004	0.0016 0.0078	8/19/2002 0001		0.0039 0.0001	8/19/2002 N001	0.0032 0.0001111	8/19/2002 N001	0.0032 0.0001111		
	4	TDS mg/L	12/4/2002	0001	2980.0000	1	1420.000 10	1420.000 1420.000	710.0000 2840.0000	8/19/2002 0001		1420.0000 10	8/19/2002 0001	1420.0000 10	8/19/2002 0001	1420.0000 10		
	OK																	
0431	2	GA pCi/L	12/6/2002 U	0001	174.1500	2	159.450 100.12	166.890 174.15	0.0000 166.890	9/19/2002 U	0001	166.8900 87.52	9/19/2002 N001	159.4500 166.89	9/19/2002 N001	159.4500 79.66	9/19/2002 N001	159.4500 79.66
	2	Mo mg/L	12/6/2002 U	0001	0.0090	2	0.002 0.009	0.002 50	0.0000 0.002	9/19/2002 B	0001	0.0020 0.0017	9/19/2002 N001	0.0019 0.0018889	9/19/2002 N001	0.0019 0.0018889		
	3	NH4 mg/L	12/6/2002 B	0001	0.0338	2	0.099 0.004	0.108 0	0.0494 0.2160	9/19/2002 0001		0.1080 0.004	9/19/2002 N001	0.0988 0.004	9/19/2002 N001	0.0988 0.004		
	2	V mg/L	12/6/2002 U	0001	0.0020	1	0.001 0.002	0.001 0	0.0000 0.0007	9/19/2002 B	0001	0.0007 0.0003	9/19/2002 0001	0.0007 0.0003	9/19/2002 0001	0.0007 0.0003		
	OK																	
0432	3	Fe mg/L	12/5/2002 B	0001	0.0251	2	0.056 0.0075	0.094 0	0.0278 0.1886	8/15/2002 N001		0.0943 0.0044444	8/15/2002 0001	0.0555 0.004	8/15/2002 0001	0.0555 0.004		
	3	Fluoride mg/L	12/5/2002 B	0001	0.1080	1	0.489 0.0502	0.489 0	0.1223 1.9560	8/15/2002 0001		0.4890 0.0502	8/15/2002 0001	0.4890 0.0502	8/15/2002 0001	0.4890 0.0502		
	OK																	

Error Type Flags : 2 - All time high detection limit  
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Approved by Dinelle  
 Hydrologist "Ok" indicates insignificant variation

Date 1/29/03

## SUSPECTED ANOMALIES REPORT

REPORT DATE: 1/29/2003

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Site : MOA01 MOAB

Test Data Date Range : 12/2/2002 to 12/12/2002

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868 Chemical Records

5320 History Records

LOC. ID.	ERR. TYPE FLAG	PARAM CODE UNITS	ANOMALOUS TEST DATA POINT			# OF SAMP. %NON DETEC	ALL TIME MINIMUMS ALL TIME MAXIMUMS	LOWER BOUND UPPER BOUND	3 MOST RECENT SAMPLING EVENTS									
			LOG DATE	SAMPLE	VALUE				LOG DATE	SAMPLE	VALUE	LOG DATE	SAMPLE	VALUE	LOG DATE	SAMPLE	VALUE	
			FLAGS	UNCERTAINTY	DET LIM				FLAGS	UNCERTAINTY	DET LIM	FLAGS	UNCERTAINTY	DET LIM	FLAGS	UNCERTAINTY	DET LIM	
0432	3 <i>OK</i>	Mn mg/L	12/5/2002 B	0001 0.0005	0.0017 0	2	0.006 0.006	0.0031 0.0124	8/15/2002 B	N001 0.0001111	0.0062 0.0001111	8/15/2002 B	0001 0.0001	0.0061 0.0001	8/15/2002 B	0001 0.0001	0.0061 0.0001	
		Mo mg/L	12/5/2002 U	0001 0.009	0.0090 100	2	0.002 0.002	0.0000 0.0020	8/15/2002 U	0001 0.0018	0.0018 0.0018	8/15/2002 N001	0.0020 0.002	0.0020 0.002	8/15/2002 N001	0.001 0.002	0.0020 0.002	
	3 <i>OK</i>	NH4 mg/L	12/5/2002 U	0001 0.004	0.0040 0	2	0.010 0.064	0.0048 0.1278	8/15/2002 B	0001 0.0639	0.0639 0.004	8/15/2002 N001	0.0096 0.004	0.0096 0.004	8/15/2002 N001	0.001 0.004	0.0096 0.004	
		ORP mV	12/5/2002 N001	129.0000	1	7.700 0	7.700 7.700	3.8500 15.4000	8/15/2002 N001	7.7000	7.7000 7.7000	8/15/2002 N001	7.7000	7.7000 7.7000	8/15/2002 N001	7.7000	7.7000	
	2 <i>OK</i>	V mg/L	12/5/2002 U	0001 0.0020	0.0020 0	1	0.000 0.000	0.0000 0.0005	8/15/2002 B	0001 0.0005	0.0005 0.0003	8/15/2002 B	0001 0.0005	0.0005 0.0003	8/15/2002 B	0001 0.0003	0.0005 0.0003	
		Mn mg/L	12/5/2002 B	0001 0.0005	0.0123 0	2	0.027 0.028	0.0133 0.0558	8/20/2002 0001	0.0279 0.0001	0.0279 0.0001	8/20/2002 N001	0.0266 0.0001111	0.0266 0.0001111	8/20/2002 N001	0.001 0.0001111	0.0266 0.0001111	
0433	2 <i>OK</i>	Mo mg/L	12/5/2002 U	0001 0.009	0.0090 100	2	0.002 0.002	0.0000 0.0020	8/20/2002 U	N001 0.0020	0.0020 0.002	8/20/2002 0001	0.0018 0.002	0.0018 0.0018	8/20/2002 0001	0.001 0.0018	0.0018 0.0018	
		ORP mV	12/5/2002 N001	59.5000	1	4.100 0	4.100 4.100	2.0500 8.2000	8/20/2002 N001	4.1000	4.1000 4.1000	8/20/2002 N001	4.1000	4.1000 4.1000	8/20/2002 N001	4.1000 4.1000	4.1000 4.1000	
	2 <i>OK</i>	V mg/L	12/5/2002 U	0001 0.0020	0.0020 0	1	0.001 0.001	0.0000 0.0005	8/20/2002 B	0001 0.0005	0.0005 0.0003	8/20/2002 B	0001 0.0005	0.0005 0.0003	8/20/2002 B	0001 0.0003	0.0005 0.0003	
		As mg/L	12/5/2002 B	0001 0.0001	0.0004 20	5	0.000 0.840	0.710 1.360	2.5589 4.7008	9/12/2002 0001	1.3600	1.3600 1.3600	9/12/2002 0001	0.7200	0.7200 0.7200	9/12/2002 0001	0.001 0.7100	0.7200 0.7100
	5 <i>OK</i>	Fe mg/L	12/5/2002 B	0001 0.0075	1.5800 0	6	0.520 868.000	0.821 1660.000	2440.4194 5258.9958	9/12/2002 0001	516.0000	516.0000 516.0000	9/12/2002 0001	868.0000	868.0000 868.0000	9/12/2002 0001	0.001 1660.0000	868.0000 1660.0000
		Fluoride mg/L	12/5/2002 B	0001 1.255	3.0800 100	1	0.502 0.502	0.502 0.502	0.1255 2.0080	8/15/2002 U	0001 0.502	0.502 0.502	8/15/2002 U	0.502 0.502	0.502 0.502	8/15/2002 U	0.502 0.502	0.502 0.502
	5 <i>OK</i>	Mn mg/L	12/5/2002 B	0001 0.0005	2.8900 0	6	1.440 221.000	2.020 282.000	604.0821 993.5379	9/12/2002 0001	282.0000	282.0000 282.0000	9/12/2002 0001	221.0000	221.0000 221.0000	9/12/2002 0001	0.001 122.0000	221.0000 122.0000

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Approved by D. Miller  
 Hydrologist "Ok" indicates insignificant variation

Date 1/29/03

## SUSPECTED ANOMALIES REPORT

REPORT DATE: 1/29/2003

TIME: 8:48:13 AM

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Older Data Only Used for Baseline Data

868 Chemical Records

5320 History Records

LOC. ID.	ERR. TYPE FLAG	PARAM CODE UNITS	ANOMALOUS TEST DATA POINT			# OF SAMP. ----- %NON DETEC	ALL TIME MINIMUMS ----- ALL TIME MAXIMUMS	LOWER BOUND ----- UPPER BOUND	3 MOST RECENT SAMPLING EVENTS									
			LOG DATE	SAMPLE	VALUE				LOG DATE	SAMPLE	VALUE	LOG DATE	SAMPLE	VALUE	LOG DATE	SAMPLE	VALUE	
			FLAGS	UNCERTAINTY	DETLIM				FLAGS	UNCERTAINTY	DETLIM	FLAGS	UNCERTAINTY	DETLIM	FLAGS	UNCERTAINTY	DETLIM	
0434	5	NH4 mg/L	12/5/2002	0001	0.1100	6	0.264	0.269	7.8811	9/12/2002	0001	4.1500	9/12/2002	0001	1.7400	9/12/2002	0001	2.4200
	*				0.004	0	3.460	4.150	14.0599									
	4	ORP mV	12/5/2002	N001	-118.0000	1	-526.000	-526.000	-263.0000	8/15/2002	N001	-526.0000	8/15/2002	N001	-526.0000	8/15/2002	N001	-526.0000
	OK					0	-526.000	-526.000	-1052.0000									
	3	Se mg/L	12/5/2002	0001	0.0001	4	0.000	0.000	0.0001	9/12/2002	0001	0.0100	9/12/2002	0001	0.0110	8/15/2002	N001	0.0002
	OK					25	0.010	0.011	0.0165	U		0.01	B			B		0.0001111
	6	SO4 mg/L	12/5/2002	0001	1030.0000	6	77.000	159.000	0.0000	9/12/2002	0001	77.0000	9/12/2002	0001	310.0000	9/12/2002	0001	159.0000
0435	OK	GA pCi/L	12/4/2002	0001	727.3100	2	643.830	646.230	0.0000	9/18/2002	N001	643.8300	9/18/2002	0001	646.2300	9/18/2002	0001	646.2300
	OK		U	395.3	727.31	100	646.230	646.230	646.2300	U	362.31	643.83	U	373.28	646.23	U	373.28	646.23
	4	ORP mV	12/4/2002	N001	-300.0000	1	-316.000	-316.000	-316.0000	9/18/2002	N001	-316.0000	9/18/2002	N001	-316.0000	9/18/2002	N001	-316.0000
	OK					0	-316.000	-316.000	-632.0000									
	3	Cd mg/L	12/4/2002	0001	0.0001	1	0.001	0.001	0.0001	9/19/2002	0001	0.0005	9/19/2002	0001	0.0005	9/19/2002	0001	0.0005
	OK		U		0.0001	100	0.001	0.001	0.0020	U		0.0005	U		0.0005	U		0.0005
	2	GA pCi/L	12/4/2002	0001	830.5300	2	774.210	801.390	0.0000	9/19/2002	N001	774.2100	9/19/2002	0001	801.3900	9/19/2002	0001	801.3900
0436	OK		U	466.23	830.53	100	801.390	801.390	801.3900	U	412.29	774.21	U	430.08	801.39	U	430.08	801.39
	4	ORP mV	12/4/2002	N001	-334.0000	1	-375.000	-375.000	-187.5000	9/19/2002	N001	-375.0000	9/19/2002	N001	-375.0000	9/19/2002	N001	-375.0000
	OK					0	-375.000	-375.000	-750.0000									
	2	V mg/L	12/4/2002	0001	0.0020	1	0.002	0.002	0.0000	9/19/2002	0001	0.0015	9/19/2002	0001	0.0015	9/19/2002	0001	0.0015
	OK		U		0.002	100	0.002	0.002	0.0015	U		0.0015	U		0.0015	U		0.0015
0437	5	GA pCi/L	12/10/2002	0001	2728.2500	8	80.180	80.480	5903.2622	9/26/2002	0001	2501.2700	9/26/2002	N001	2214.2800	8/24/2002	0001	692.0900
	OK		U	143.9	56.02	50	2501.270	2501.270	8175.0923		133.98	49.94		125.47	49.72	U	365.03	692.09

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Flags : I - Increased detection limit due to required dilution.  
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Approved by D. Miller  
 Hydrologist "OK" indicates insignificant variation

Date 1/29/03

## SUSPECTED ANOMALIES REPORT

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Site : MOA01 MOAB

Test Data Date Range : 12/2/2002 to 12/12/2002

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Older Data Only Used for Baseline Data

868 Chemical Records

5320 History Records

LOC. ID.	ERR. TYPE FLAG	PARAM CODE UNITS	ANOMALOUS TEST DATA POINT		# OF SAMP. %NON DETEC	ALL TIME MINIMUMS ..... ALL TIME MAXIMUMS	LOWER BOUND ..... UPPER BOUND	3 MOST RECENT SAMPLING EVENTS										
			LOG DATE	SAMPLE VALUE				LOG DATE	SAMPLE VALUE	LOG DATE	SAMPLE VALUE	LOG DATE	SAMPLE VALUE	LOG DATE	SAMPLE VALUE			
			FLAGS	UNCERTAINTY	DETLM	FLAGS	UNCERTAINTY	DETLM	FLAGS	UNCERTAINTY	DETLM	FLAGS	UNCERTAINTY	DETLM	FLAGS			
0437	4	ORP mV	12/10/2002	N001	164.0000	1	70.700 70.700	70.700 141.4000	35.3500 9/26/2002	N001	70.7000	9/26/2002	N001	70.7000	9/26/2002	N001	70.7000	
OK	5	B mg/L	12/10/2002	0001	0.3890	4	0.127 0.379	0.324 0.384	0.5974 1.1433	9/17/2002	N001	0.3790 0.001222	9/17/2002	0001	0.3840 0.0011	8/21/2002	0001	0.3240 0.0105
	5	Chloride mg/L	12/10/2002	0001	990.0000	4	951.000 2.005	964.000 1010.000	1120.1440 1169.3369	9/17/2002	0001	997.0000 2.005	9/17/2002	N001	1010.0000 2.005	8/21/2002	0001	964.0000 2.005
	6	GB pCi/L	12/10/2002	0001	408.0900	4	281.750 40.85	301.200 48.94	0.0000 216.8642	9/17/2002	N001	281.7500 37.53	9/17/2002	0001	330.1200 49.76	8/21/2002	0001	301.2000 57.13
	6	Na mg/L	12/10/2002	0001	1170.0000	4	1140.000 0.104	1160.000 0	0.0000 4230.000	9/17/2002	0001	1140.0000 0.021	9/17/2002	N001	1160.0000 0.0233333	8/21/2002	0001	1180.0000 0.0725
	3	NO3 mg/L	12/10/2002	0001	1.6200	2	7.900 0.02	7.960 7.900	3.9500 15.9200	9/17/2002	N001	7.9600 0.02	9/17/2002	0001	7.9000 0.02	9/17/2002	0001	7.9000 0.02
	3	ORP mV	12/10/2002	N001	-72.0000	1	102.000 0	102.000 102.000	51.0000 204.0000	9/17/2002	N001	102.0000	9/17/2002	N001	102.0000	9/17/2002	N001	102.0000
	6	SO4 mg/L	12/10/2002	0001	3390.0000	8	0.010 1.97	0.049 12.5	0.0000 8430.000	9/17/2002	0001	3530.0000 1.97	9/17/2002	N001	3560.0000 1.97	9/16/2002	0001	0.2100 B
	5	Sr mg/L	12/10/2002	0001	10.3000	4	7.540 0.0005	9.770 10.100	11.9464 18.1729	9/17/2002	0001	10.1000 0.002	9/17/2002	N001	10.3000 0.002222	8/21/2002	0001	9.7700 0.0005
	3	Fe mg/L	12/9/2002	0001	0.0075	20	0.020 4.480	0.076 8.350	0.0134 12.5250	9/17/2002	0001	0.0758 0.0008	9/17/2002	N001	4.4800 0.0008889	9/16/2002	0001	8.3500
	OK																	
0440	3	NH4 mg/L	12/6/2002	0001	0.0653	2	0.394 0.004	0.400 0.394	0.1970 0.8000	9/24/2002	0001	0.3940 0.004	9/24/2002	N001	0.4000 0.004	9/24/2002	N001	0.4000 0.004
OK	2	Ra-228 pCi/L	12/6/2002	0001	0.8500	1	0.770 0.51	0.770 0.85	0.0000 0.770	9/24/2002	0001	0.7700 0.77	9/24/2002	0001	0.7700 0.77	9/24/2002	0001	0.7700 0.77
	2	V mg/L	12/6/2002	0001	0.0020	1	0.001 0.002	0.001 0.001	0.0000 0.0006	9/24/2002	0001	0.0006 0.0003	9/24/2002	0001	0.0006 0.0003	9/24/2002	0001	0.0006 0.0003
	OK																	

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Flags : I - Increased detection limit due to required dilution.  
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Approved by D. Miller  
 Hydrologist "Ok" indicates insignificant variation

Date 1/29/03

## SUSPECTED ANOMALIES REPORT

REPORT DATE: 1/29/2003

TIME: 8:48:15 AM

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Test Data Date Range : 12/2/2002 to 12/12/2002

Older Data Only Used for Baseline Data

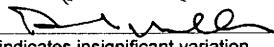
868 Chemical Records

5320 History Records

LOC. ID.	ERR. TYPE FLAG	PARAM CODE UNITS	ANOMALOUS TEST DATA POINT			# OF SAMP. ----- %NON DETEC	ALL TIME MINIMUMS ----- ALL TIME MAXIMUMS	LOWER BOUND ----- UPPER BOUND	3 MOST RECENT SAMPLING EVENTS									
			LOG DATE	SAMPLE	VALUE				LOG DATE	SAMPLE	VALUE	LOG DATE	SAMPLE	VALUE	LOG DATE	SAMPLE	VALUE	
			FLAGS	UNCERTAINTY	DETLM				FLAGS	UNCERTAINTY	DETLM	FLAGS	UNCERTAINTY	DETLM	FLAGS	UNCERTAINTY	DETLM	
0442	OK	Fe mg/L	12/9/2002 U	0001	0.0075	2	0.018	1.390	0.0090	9/25/2002 N001	0.001	1.3900	9/25/2002 U	0001	0.0180	9/25/2002 U	0001	0.0180
		ORP mV	12/9/2002	N001	232.0000	1	73.200	73.200	36.6000	9/25/2002 N001	0.001	73.2000	9/25/2002 N001	0.001	73.2000	9/25/2002 N001	0.001	73.2000
		Ra-228 pCi/L	12/9/2002 U	0001	0.8700	1	0.780	0.780	0.0000	9/25/2002 0001	0.001	0.7800	9/25/2002 U	0.46	0.78	9/25/2002 U	0.46	0.78
					0.52	87	100	0.780	0.7800	U	0.46	0.78	U	0.46	0.78	U	0.46	0.78
0443	OK	Fe mg/L	12/6/2002 U	0001	0.0075	2	0.019	0.386	0.0097	9/19/2002 0001	0.001	0.0193	9/19/2002 N001	0.001	0.3860	9/19/2002 N001	0.001	0.3860
		GA pCi/L	12/6/2002 U	0001	24.6300	2	19.220	19.770	0.0000	9/19/2002 N001	0.001	19.7700	9/19/2002 U	11.4	19.22	9/19/2002 U	11.4	19.22
	OK	GB pCi/L	12/6/2002 U	13.65	24.63	100	19.220	19.770	19.7700	U	11.79	19.77	9/19/2002 0001	0.001	19.2200	9/19/2002 0001	0.001	19.2200
		Mn mg/L	12/6/2002 B	0001	22.3100	2	18.000	18.040	0.0000	9/19/2002 N001	0.001	18.0400	9/19/2002 U	10.96	18.04	9/19/2002 U	10.97	18.04
	OK	Mo mg/L	12/6/2002 U	13.57	22.31	100	18.000	18.040	18.0400	U	10.96	18.04	U	10.97	18	U	10.97	18
		NH4 mg/L	12/6/2002 U	0001	0.0375	2	0.197	0.209	0.0985	9/19/2002 N001	0.001	0.2090	9/19/2002 0001	0.001	0.1970	9/19/2002 0001	0.001	0.1970
	OK	ORP mV	12/6/2002 N001	1.2900	1	69.400	69.400	34.7000	9/19/2002 N001	0.001	0.0687	9/19/2002 B	0.004	0.0922	9/19/2002 B	0.004	0.0922	
		Ra-228 pCi/L	12/6/2002 U	0.5	0.8400	100	0.710	0.710	0.0000	9/19/2002 0001	0.001	0.7100	9/19/2002 U	0.42	0.71	9/19/2002 U	0.42	0.71
	OK	Cd mg/L	12/4/2002 U	0001	0.0001	1	0.001	0.001	0.0002	9/18/2002 0001	0.001	0.0006	9/18/2002 B	0.005	0.0006	9/18/2002 B	0.005	0.0006
		GA pCi/L	12/4/2002 U	388.14	724.31	100	637.200	640.880	0.0000	9/18/2002 0001	0.001	640.8800	9/18/2002 U	343.74	640.88	9/18/2002 U	346.49	637.2

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Approved by   
 Hydrologist "Ok" indicates insignificant variation

Date 1/29/03

## SUSPECTED ANOMALIES REPORT

REPORT DATE: 1/29/2003

TIME: 8:48:17 AM

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Site : MOA01 MOAB

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Older Data Only Used for Baseline Data

868 Chemical Records

5320 History Records

LOC. ID.	ERR. TYPE FLAG	PARAM CODE UNITS	ANOMALOUS TEST DATA POINT			# OF SAMP. ----- %NON DETEC	ALL TIME MINIMUMS ----- ALL TIME MAXIMUMS	LOWER BOUND ----- UPPER BOUND	3 MOST RECENT SAMPLING EVENTS						
			LOG DATE	SAMPLE	VALUE				LOG DATE	SAMPLE	VALUE	LOG DATE	SAMPLE	VALUE	
			FLAGS	UNCERTAINTY	DETLM				FLAGS	UNCERTAINTY	DETLM	FLAGS	UNCERTAINTY	DETLM	
0444	4 OK	ORP mV	12/4/2002	N001	-443.0000	1 0	-368.000 -368.000	-368.000 -368.000	-184.0000 -736.0000	9/18/2002	N001	-368.0000	9/18/2002	N001	-368.0000
0455	3 OK	U mg/L	12/5/2002	0001	0.0025 0.0001	1 0	0.005 0.005	0.005 0.005	0.0027 0.0106	10/10/2002	0001	0.0053	10/10/2002	0001	0.0053
0457	4 OK	Chloride mg/L	12/4/2002	0001	1520.0000 2.005	1 0	148.000 148.000	148.000 148.000	74.0000 296.0000	10/10/2002	0001	148.0000	10/10/2002	0001	148.0000
0537	4 OK	Fluoride mg/L	12/10/2002	0001	118.0000 1.255	1 0	56.200 56.200	56.200 56.200	28.1000 112.4000	9/19/2002	0001	56.2000 0.502	9/19/2002	0001	56.2000 0.502
AMM-1	3 OK	Fluoride mg/L	12/3/2002	0001	0.1930 0.1255	2 50	1.000 1.000	1.460 1.460	0.5000 2.9200	8/14/2002	0001	1.4600 0.1255	4/13/2000	0001	1.0000 1
AMM-2	5 OK	Mo mg/L	12/5/2002	0001	0.8770 0.009	34 0	1.030 1.480	1.040 1.500	1.0777 1.3089	8/13/2002	0001	1.1100 0.0018	8/13/2002	N001	1.1900 0.002
	5 *	NH4 mg/L	12/5/2002	0001	404.0000 0.004	5 0	1040.000 1210.000	1060.000 1230.000	946.5152 1246.2150	8/13/2002	0001	1060.0000 0.004	8/13/2002	N001	1040.0000 0.004
	5 OK	ORP mV	12/5/2002	N001	2.1000	5 0	105.000 191.000	132.000 246.000	134.6690 263.7633	8/13/2002	N001	191.0000	8/13/2002	N001	191.0000 5/29/2002
	5 OK	ORP mV	12/5/2002	N001	27.5000	5 0	105.000 191.000	132.000 246.000	134.6690 263.7633	8/13/2002	N001	191.0000	8/13/2002	N001	191.0000 5/29/2002
AMM-3	5 OK	ORP mV	12/5/2002	N001	-98.2000	7 0	-89.000 -45.000	-85.000 -35.000	0.0000 -58.1282	8/13/2002	N001	-85.0000	5/29/2002	N001	-54.0000 3/13/2002
ATP-1-D	3 OK	As mg/L	12/10/2002	0001	0.0001 0.0001	2 0	0.010 0.010	0.061 0.061	0.0050 0.1220	9/13/1996	0001	0.0610	1/20/1982	0001	0.0100 1/20/1982
	3 OK	Cd mg/L	12/10/2002	0001	0.0001 0.0001	1 100	0.250 0.250	0.250 0.250	0.0625 1.0000	9/13/1996	0001	0.2500 0.25	9/13/1996	0001	0.2500 U
	3 OK	Fe mg/L	12/10/2002	0001	0.0313 0.0075	2 50	5.000 9.600	9.600 9.600	2.5000 19.2000	9/13/1996	0001	5.0000 5	1/20/1982	0001	9.6000 1/20/1982

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Approved by Dinelle  
 Hydrologist "Ok" indicates insignificant variation

Date 1/29/03

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868 Chemical Records

5320 History Records

LOC. ID.	ERR. TYPE FLAG	PARAM CODE UNITS	ANOMALOUS TEST DATA POINT			# OF SAMP. %NON DETEC	ALL TIME MINIMUMS ALL TIME MAXIMUMS	LOWER BOUND UPPER BOUND	3 MOST RECENT SAMPLING EVENTS									
			LOG DATE	SAMPLE	VALUE				LOG DATE	SAMPLE	VALUE	LOG DATE	SAMPLE	VALUE	LOG DATE	SAMPLE	VALUE	
			FLAGS	UNCERTAINTY	DETLM				FLAGS	UNCERTAINTY	DETLM	FLAGS	UNCERTAINTY	DETLM	FLAGS	UNCERTAINTY	DETLM	
ATP-1-D	2 <i>OK</i>	GA pCi/L	12/10/2002 U	0001 514.6	934.7400 934.74	2 0	75.000 150.000	150.000 150.000	0.0000 150.0000	9/13/1996 56	0001 1	75.0000 1.0000	4/27/1994 9/13/1996	0001 0001	150.0000 1.0000	4/27/1994 9/13/1996	0001 0001	150.0000 1.0000
	3 <i>OK</i>	Li mg/L	12/10/2002 E	0001 0.0025	0.2380 0.0025	1 100	1.000 1.000	1.000 1.000	0.5000 2.0000	9/13/1996 U	0001 1	1.0000 0.0200	9/13/1996 4/27/1994	0001 0001	1.0000 1.0000	9/13/1996 4/27/1994	0001 0001	1.0000 1.0000
	3 <i>OK</i>	Mo mg/L	12/10/2002 U	0001 0.009	0.0090 0.009	2 100	0.020 1.000	1.000 1.000	0.0100 2.0000	9/13/1996 U	0001 0.02	0.0200 U	4/27/1994 29.0000	0001 U	1.0000 1	4/27/1994 U	0001 U	1.0000 1
	3 <i>OK</i>	NO3 mg/L	12/10/2002 U	0001 0.02	0.0200 14.500	2 50	5.000 14.500	14.500 14.500	2.5000 29.0000	4/27/1994 U	0001 5	5.0000 0.0000	1/20/1982 4/27/1994	0001 0001	14.5000 1.0000	1/20/1982 4/27/1994	0001 0001	14.5000 1.0000
	3 <i>OK</i>	Se mg/L	12/10/2002 U	0001 0.0001	0.0001 0.0001	3 100	0.020 0.100	0.100 0.100	0.0100 0.2000	9/13/1996 U	0001 0.1	0.1000 0.1	4/27/1994 U	0001 0.02	0.0200 U	1/20/1982 U	0001 0.1	0.1000 0.1
	3 <i>OK</i>	U mg/L	12/10/2002 B	0001 0.0001	0.0003 0.0001	2 50	0.001 0.003	0.003 0.003	0.0005 0.0054	9/13/1996 U	0001 0.0009	0.0009 0.0009	4/27/1994 U	0001 0.0027	0.0027 4/27/1994	0001 0001	0.0027 0.0027	
	3 <i>OK</i>	V mg/L	12/10/2002 U	0001 0.002	0.0020 1.00	2 100	0.500 1.000	1.000 1.000	0.2500 2.0000	9/13/1996 U	0001 0.5	0.5000 U	4/27/1994 U	0001 1	1.0000 U	4/27/1994 U	0001 1	1.0000 1
	3 <i>OK</i>	As mg/L	12/10/2002 B	0001 0.0001	0.0009 0.0001	2 50	0.010 0.010	0.073 0.073	0.0050 0.1460	9/13/1996 U	0001 0.01	0.0730 0.01	1/20/1982 U	0001 U	0.0100 0.01	1/20/1982 U	0001 0.01	0.0100 0.01
	3 <i>OK</i>	Cd mg/L	12/10/2002 U	0001 0.0001	0.0001 0.0001	1 100	0.250 0.250	0.250 0.250	0.0625 1.0000	9/13/1996 U	0001 0.25	0.2500 U	9/13/1996 U	0001 0.25	0.2500 U	9/13/1996 U	0001 0.25	0.2500 0.25
ATP-1-ID	2 <i>OK</i>	GA pCi/L	12/10/2002 U	0001 498.53	930.3700 930.37	2 0	37.000 320.000	320.000 320.000	0.0000 320.0000	9/13/1996 51	0001 51	37.0000 0.5000	4/27/1994 U	0001 390	320.0000 1.0000	4/27/1994 U	0001 1	320.0000 1.0000
	3 <i>OK</i>	Li mg/L	12/10/2002 E	0001 0.0025	0.2530 100	1 100	1.000 1.000	1.000 1.000	0.5000 2.0000	9/13/1996 U	0001 1	1.0000 U	9/13/1996 U	0001 1	1.0000 U	9/13/1996 U	0001 1	1.0000 1
	3 <i>OK</i>	Mo mg/L	12/10/2002 U	0001 0.009	0.0090 100	2 100	0.020 1.000	1.000 1.000	0.0100 2.0000	9/13/1996 U	0001 0.02	0.0200 U	4/27/1994 U	0001 1	1.0000 U	4/27/1994 U	0001 1	1.0000 1
	3 <i>OK</i>	Se mg/L	12/10/2002 U	0001 0.0001	0.0001 0.0001	3 100	0.010 0.020	0.020 0.100	0.0050 0.2000	9/13/1996 U	0001 0.1	0.1000 U	4/27/1994 U	0001 0.02	0.0200 U	1/20/1982 U	0001 0.01	0.0100 0.01
	3 <i>OK</i>	U mg/L	12/10/2002 B	0001 0.0001	0.0001 0.0001	2 100	0.010 0.020	0.073 0.100	0.0050 0.2000	9/13/1996 U	0001 0.1	0.0730 U	1/20/1982 U	0001 0.02	0.0100 U	1/20/1982 U	0001 0.01	0.0100 0.01
	3 <i>OK</i>	V mg/L	12/10/2002 U	0001 0.002	0.0020 100	2 100	0.500 1.000	1.000 1.000	0.2500 2.0000	9/13/1996 U	0001 0.5	0.5000 U	4/27/1994 U	0001 1	1.0000 U	4/27/1994 U	0001 1	1.0000 1

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Approved by Dinner  
 Hydrologist "Ok" indicates insignificant variation

Date 1/29/03

## SUSPECTED ANOMALIES REPORT

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868 Chemical Records

5320 History Records

LOC. ID.	ERR. TYPE FLAG	PARAM CODE UNITS	ANOMALOUS TEST DATA POINT		# OF SAMP. ----- %NON DETEC	ALL TIME MINIMUMS ----- ALL TIME MAXIMUMS	LOWER BOUND ----- UPPER BOUND	3 MOST RECENT SAMPLING EVENTS															
			LOG DATE	SAMPLE VALUE				LOG DATE	SAMPLE VALUE	LOG DATE	SAMPLE VALUE	LOG DATE	SAMPLE VALUE	LOG DATE	SAMPLE VALUE	LOG DATE	SAMPLE VALUE						
			FLAGS	UNCERTAINTY	DETLM	FLAGS	UNCERTAINTY	DETLM	FLAGS	UNCERTAINTY	DETLM	FLAGS	UNCERTAINTY	DETLM	FLAGS	UNCERTAINTY	DETLM						
ATP-1-ID	3	U mg/L	12/10/2002 B	0001 0.0003	2	0.001 0.002	0.0005 0.0045	9/13/1996 U	0001 0.0009	4/27/1994	0001 0.0023	4/27/1994	0001 0.0023	OK	12/10/2002 U	0001 0.0020	1.0000 1	4/27/1994 U	0001 1.0000				
	3	V mg/L		0001 0.0001	2	0.500 1.000	0.2500 2.0000	9/13/1996 U	0001 0.5000	4/27/1994	0001 1.0000	4/27/1994	0001 1.0000										
ATP-1-S	4	ORP mV	12/9/2002	N001 -71.6000	1	-211.000 0	-211.000 -422.0000	9/25/2002 N001	-211.0000	9/25/2002 N001	-211.0000	9/25/2002 N001	-211.0000	OK	12/9/2002	N001	-71.6000	9/25/2002 N001	-211.0000				
ATP-2-D	3	Mo mg/L	12/5/2002 B	0001 0.0145	5	0.025 0.041	0.0167 0.7500	8/15/2002 N001	0.0414 0.01	8/15/2002 N001	0.0249 0.009	11/11/2000 N001	0.001 0.001	OK	12/5/2002 N001	-237.0000 0	-225.0000 -450.0000	8/15/2002 N001	-225.0000 8/15/2002 N001	-225.0000 8/15/2002 N001	-225.0000 8/15/2002 N001		
	4	ORP mV		0001 -237.0000	1	-225.000 0	-225.000 -450.0000	8/15/2002 N001	-225.0000	8/15/2002 N001	-225.0000	8/15/2002 N001	-225.0000										
ATP-2-S	5	ORP mV	12/5/2002	N001 -60.2000	7	-39.000 0	0.700 148.000	8/14/2002 N001	13.0000	5/29/2002 N001	-39.0000	3/14/2002 N001	0.7000	OK	12/5/2002	N001	-60.2000	5/29/2002 N001	-39.0000				
ATP-3	2	Mo mg/L	12/6/2002 U	0001 0.0090	5	0.003 0.007	0.0000 0.0070	9/25/2002 N001	0.0029 0.0017	9/25/2002 N001	0.0029 0.0018889	11/19/2000 N001	0.001 0.001	OK	12/6/2002 N001	172.0000 0	-79.0000 -158.0000	9/25/2002 N001	-79.0000 9/25/2002 N001	-79.0000 9/25/2002 N001	-79.0000 9/25/2002 N001		
	4	ORP mV		0001 172.0000	1	-79.000 0	-79.000 -158.0000	9/25/2002 N001	-79.0000	9/25/2002 N001	-79.0000	9/25/2002 N001	-79.0000										
CR1	5	NH4 mg/L	12/3/2002 U	0001 0.0040	5	0.004 0.170	0.1642 0.2883	8/12/2002 N001	0.1730 0.004	8/12/2002 N001	0.1700 0.004	5/20/2002 N001	B 0.004	OK	12/3/2002 N001	1060.0000 10	710.000 870.000	840.3656 1047.4657	8/12/2002 N001	1020.0000 10	790.0000 10	5/20/2002 N001	0.0279 0.004
	6	TDS mg/L		0001 1060.0000	6	710.000 870.000	725.000 1020.000	8/12/2002 N001	1020.0000	5/20/2002 N001	790.0000	3/11/2002 N001	830.0000	OK	12/3/2002 N001	1060.0000	10	840.3656 1047.4657	1020.0000 10	790.0000 10	5/20/2002 N001	0.0279 0.004	
CR2	6	GA pCi/L	12/6/2002	0001 54.4900	5	14.820 26.010	24.530 41.120	8/14/2002 N001	41.1200 11.84	8/14/2002 N001	24.5300 13.03	5/22/2002 N001	10.17 13.17	OK	12/6/2002	11.97 7.8	11.61 10.9	46.6867 25.2067	B 8.53	4.14 12.94	5.18 2.89	14.8200 4.28	
	6	GB pCi/L		0001 33.1800	5	11.450 15.530	12.690 23.060	8/14/2002 N001	13.0300 7.95	8/14/2002 N001	23.0600 13.03	5/22/2002 N001	8.53 12.94										
	6	U mg/L	12/6/2002	0001 0.0930	9	0.002 0.042	0.008 0.052	8/14/2002 N001	0.0521 0.0648	8/14/2002 N001	0.0367 0.0001	5/22/2002 N001	0.0001 0.0001	0.0238 0.0001									

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Approved by D. Miller  
 Hydrologist "Ok" indicates insignificant variation

Date 1/29/03

## SUSPECTED ANOMALIES REPORT

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868 Chemical Records

5320 History Records

LOC. ID.	ERR. TYPE FLAG	PARAM CODE UNITS	ANOMALOUS TEST DATA POINT			# OF SAMP. %NON DETEC	ALL TIME MINIMUMS ALL TIME MAXIMUMS	LOWER BOUND UPPER BOUND	3 MOST RECENT SAMPLING EVENTS									
			LOG DATE	SAMPLE	VALUE				LOG DATE	SAMPLE	VALUE	LOG DATE	SAMPLE	VALUE				
			FLAGS	UNCERTAINTY	DET LIM				FLAGS	UNCERTAINTY	DET LIM	FLAGS	UNCERTAINTY	DET LIM				
CR2-001	6 <i>OK</i>	Chloride mg/L	12/6/2002	0001	167.0000	5	92.900 140.000	120.000 150.000	72.8482 131.6775	8/14/2002 N001	0001 0.401	122.0000 0.401	8/14/2002 N001	0001 0.401	120.0000 0.401	5/22/2002 N001	0001 0.2005	92.9000 0.2005
CR2B	5 <i>OK</i>	GA pCi/L	12/3/2002	0001 B	310.4200 42.56	5 0	42.580 637.130	95.450 665.450	504.9471 1087.1758	8/14/2002 N001	637.1300 123.68	8/14/2002 108.42	8/14/2002 N001	665.4500 127.36	8/14/2002 110.49	5/21/2002 B	0001 8.82	42.5800 9.78
	5 <i>OK</i>	GB pCi/L	12/3/2002	0001 27.08	146.9800 38.14	5 0	25.520 166.400	33.850 192.930	158.5107 292.4322	8/14/2002 83.16	166.4000 131.2	8/14/2002 84.3	8/14/2002 131	192.9300 0.004	5/21/2002 0.004	0001 6.18	33.8500 8.58	
	5 <i>OK</i>	NH4 mg/L	12/3/2002	0001 0.004	239.0000 0.004	5 0	16.500 303.000	18.100 308.000	256.5412 518.4888	8/14/2002 N001	308.0000 0.004	8/14/2002 0.004	8/14/2002 N001	303.0000 0.004	5/21/2002 0.004	0001 0.004	18.1000 0.004	
	5 <i>OK</i>	ORP mV	12/3/2002	N001	69.6000	6 0	95.000 142.000	108.000 158.700	121.8515 167.7941	8/14/2002 N001	142.0000 0.004	5/21/2002 N001	117.0000 0.004	3/12/2002 N001	117.0000 0.004	3/12/2002 N001	158.7000 0.004	
CR2B-001	6 <i>OK</i>	Chloride mg/L	12/3/2002	0001 0.401	183.0000 0.401	5 0	109.000 126.000	119.000 168.000	78.9639 145.2433	8/14/2002 N001	122.0000 0.401	8/14/2002 N001	119.0000 0.401	5/21/2002 N001	0001 0.2005	109.0000 0.2005		
	5 <i>OK</i>	ORP mV	12/3/2002	N001	43.0000	4 0	111.000 133.000	117.000 149.100	113.5310 164.7614	8/14/2002 N001	133.0000 0.004	5/21/2002 N001	117.0000 0.004	3/12/2002 N001	117.0000 0.004	3/12/2002 N001	149.1000 0.004	
CR3	5 <i>OK</i>	NH4 mg/L	12/3/2002	0001 0.004	3.7200 0.004	5 0	1.570 14.400	1.990 14.600	11.9449 23.9696	8/13/2002 N001	14.4000 0.004	8/13/2002 N001	14.6000 0.004	5/21/2002 N001	0001 0.004	1.5700 0.004		
	5 <i>OK</i>	ORP mV	12/3/2002	N001	2.5000	6 0	115.000 179.000	123.000 183.000	114.5436 195.3688	8/13/2002 N001	115.0000 0.004	5/21/2002 N001	179.0000 0.004	3/12/2002 N001	179.0000 0.004	3/12/2002 N001	138.4000 0.004	
	5 <i>OK</i>	TDS mg/L	12/3/2002	0001	1210.0000 10	4 0	930.000 1020.000	985.000 1780.000	1541.7489 2270.8246	8/13/2002 N001	1780.0000 10	5/21/2002 N001	1020.0000 10	3/12/2002 N001	1020.0000 10	3/12/2002 N001	985.0000 10	
CR3-001	5 <i>OK</i>	Chloride mg/L	12/3/2002	0001 0.401	230.0000 0.401	5 0	124.000 2510.000	134.000 7990.000	2830.7983 10651.4956	8/13/2002 N001	2510.0000 4.01	8/13/2002 N001	7990.0000 4.01	5/21/2002 N001	0001 0.2005	124.0000 0.2005		
	5 <i>OK</i>	GA pCi/L	12/3/2002	0001 5.44	10.4200 8.05	5 20	6.080 225.540	8.920 390.480	227.4554 562.6667	8/13/2002 N001	390.4800 140.06	8/13/2002 170.84	8/13/2002 96.26	225.5400 125.67	5/21/2002 B	0001 3.83	6.0800 5.9	
	5 <i>OK</i>	GB pCi/L	12/3/2002	0001 4.8	13.3500 7.46	5 20	8.170 129.090	11.850 185.230	80.0688 252.7826	8/13/2002 N001	185.2300 102.12	8/13/2002 162.51	8/13/2002 U	129.0900 79.65	5/21/2002 B	0001 3.32	11.8500 4.98	

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Approved by

*Dinelle*

Hydrologist "OK" indicates insignificant variation

Date 1/29/03

## SUSPECTED ANOMALIES REPORT

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868 Chemical Records

5320 History Records

LOC. ID.	ERR. TYPE FLAG	PARAM CODE UNITS	ANOMALOUS TEST DATA POINT			# OF SAMP. ----- %NON DETEC	ALL TIME MINIMUMS ----- ALL TIME MAXIMUMS	LOWER BOUND ----- UPPER BOUND	3 MOST RECENT SAMPLING EVENTS									
			LOG DATE	SAMPLE	VALUE				LOG DATE	SAMPLE	VALUE	LOG DATE	SAMPLE	VALUE	LOG DATE	SAMPLE	VALUE	
			FLAGS	UNCERTAINTY	DETLIM				FLAGS	UNCERTAINTY	DETLIM	FLAGS	UNCERTAINTY	DETLIM	FLAGS	UNCERTAINTY	DETLIM	
CR3-001	5 <i>OK</i>	Mn mg/L	12/3/2002 BE	0001 0.0005	0.0461 0	5 0	0.015 1.030	0.025 1.590	0.9933 2.3706	8/13/2002 N001	0001 0.0001111	1.0300 0.0001111	8/13/2002 0001	0001 0.0001	1.5900 0.0001	5/21/2002 0001	0001 0.0001	0.0154 0.0001
	5 <i>OK</i>	Mo mg/L	12/3/2002 U	0001 0.009	0.0090 0	5 0	0.005 0.042	0.006 0.102	0.0457 0.1376	8/13/2002 N001	0001 0.002	0.0415 0.002	8/13/2002 0001	0001 0.0018	0.1020 0.0018	5/21/2002 0001	0001 0.0018	0.0057 0.0018
	5 <i>OK</i>	NH4 mg/L	12/3/2002	0001 0.004	2.9700 0	5 0	1.330 42.800	1.660 43.000	35.2738 74.2352	8/13/2002 N001	0001 0.004	42.8000 0.004	8/13/2002 0001	0001 0.004	43.0000 0.004	5/21/2002 0001	0001 0.004	1.3300 0.004
	6 <i>OK</i>	ORP mV	12/3/2002	N001	11.1000 0	4 0	-101.000 186.000	139.000 186.000	0.0000 0.4738	8/13/2002 N001	0001 -101.0000	177.0000 0.0000	5/21/2002 N001	0001 177.0000	3/12/2002 N001	0001 139.0000		
	6 <i>OK</i>	Se mg/L	12/3/2002	0001 0.0001	0.0075 0	5 0	0.004 0.006	0.005 0.006	0.0038 0.0065	8/13/2002 0001	0001 0.0001	0.0050 0.0001	8/13/2002 N001	0001 0.0061	5/21/2002 0001	0001 0.0046		
	5 <i>OK</i>	SO4 mg/L	12/3/2002	0001 0.394	482.0000 0	5 0	315.000 1440.000	317.000 2880.000	1462.1206 3879.0811	8/13/2002 N001	0001 3.94	1440.0000 3.94	8/13/2002 0001	0001 3.94	5/21/2002 0001	0001 0.197		
	5 <i>OK</i>	Sr mg/L	12/3/2002	0001 0.0005	1.5000 0	5 0	1.040 5.460	1.240 10.200	5.4791 13.9632	8/13/2002 N001	0001 0.0011111	5.4600 0.0011111	8/13/2002 0001	0001 0.001	10.2000 0.001	5/21/2002 0001	0001 0.0001	1.0400 0.0001
	5 <i>OK</i>	TDS mg/L	12/3/2002	0001 10	1150.0000 0	4 0	810.000 978.000	950.000 10800.000	6528.4071 16754.5364	8/13/2002 0001	0001 10	10800.0000 10	5/21/2002 0001	0001 10	810.0000 10	3/12/2002 0001	0001 10	978.0000 10
	5 <i>OK</i>	U mg/L	12/3/2002	0001 0.0001	0.0246 0	5 0	0.014 0.361	0.019 0.630	0.3596 0.9081	8/13/2002 N001	0001 0.0001	0.6300 E	8/13/2002 N001	0001 0.0001	0.3610 0.0001111	5/21/2002 0001	0001 0.0001	0.0144 0.0001
	5 <i>OK</i>	NH4 mg/L	12/3/2002	0001	0.4810 0.004	5 0	0.534 0.884	0.537 0.938	0.7766 1.2287	8/13/2002 0001	0001 0.004	0.9380 0.004	8/13/2002 N001	0001 0.004	0.8840 0.004	5/21/2002 0001	0001 0.004	0.5340 0.004
CR4	6 <i>OK</i>	ORP mV	12/3/2002	N001	208.0000 0	6 0	-106.000 145.000	14.000 190.000	0.0000 168.3059	8/13/2002 N001	0001 -106.0000	190.0000 10	5/21/2002 N001	0001 10	810.0000 10	3/12/2002 N001	0001 10	978.0000 10
	5 <i>OK</i>	ORP mV	12/3/2002	N001	44.0000 0	7 0	67.000 166.000	88.000 238.000	121.8805 253.7940	8/13/2002 N001	0001 118.0000	238.0000 253.7940	5/20/2002 N001	0001 238.0000	3/11/2002 N001	0001 143.9000		
CR5	2 <i>OK</i>	Mo mg/L	12/3/2002	0001	0.0090 0.009	9 0	0.002 0.008	0.003 0.008	0.0000 0.0080	8/13/2002 0001	0001 0.0018	0.0078 B	8/13/2002 N001	0001 0.002	0.0066 B	5/20/2002 0001	0001 0.0018	0.0023 0.0018
	5 <i>OK</i>	ORP mV	12/3/2002	N001	44.0000 0	7 0	67.000 166.000	88.000 238.000	121.8805 253.7940	8/13/2002 N001	0001 118.0000	238.0000 253.7940	5/20/2002 N001	0001 238.0000	3/11/2002 N001	0001 143.9000		

Error Type Flags : 2 - All time high detection limit  
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Approved by D. Will  
 Hydrologist "Ok" indicates insignificant variation

Date 1/29/03

## SUSPECTED ANOMALIES REPORT

REPORT DATE: 1/29/2003

TIME: 8:48:23 AM

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Site : MOA01 MOAB

Test Data Date Range : 12/2/2002 to 12/12/2002

Older Data Only Used for Baseline Data

868 Chemical Records

5320 History Records

LOC. ID.	ERR. TYPE FLAG	PARAM CODE UNITS	ANOMALOUS TEST DATA POINT			# OF SAMP. ----- %NON DETEC	ALL TIME MINIMUMS ----- ALL TIME MAXIMUMS	LOWER BOUND ----- UPPER BOUND	3 MOST RECENT SAMPLING EVENTS											
			LOG DATE	SAMPLE VALUE	FLAGS				LOG DATE	SAMPLE VALUE	FLAGS	LOG DATE	SAMPLE VALUE	FLAGS	LOG DATE	SAMPLE VALUE	FLAGS	LOG DATE	SAMPLE VALUE	
					UNCERTAINTY						UNCERTAINTY	DETLM			UNCERTAINTY	DETLM			UNCERTAINTY	DET LM
CRA	6	GA pcCi/L	12/6/2002	0001	182.3700	6	1.100	7.820	0.0000	8/15/2002	N001	7.8200	8/15/2002	0001	32.7400	5/22/2002	0001	15.2100		
	*				19.96	11.8	33.333	34.450	70.560		69.3574	U	4.8	7.82		10.46	12.11	B	4.12	5.1
	4	GB pcCi/L	12/6/2002	0001	67.9700	6	2.600	11.580	1.7420	8/15/2002	0001	12.9500	8/15/2002	N001	12.6000	5/22/2002	0001	11.5800		
	*				9.47	11.54	50	15.100	31.980		47.9700	U	7.88	12.95		7.2	12.6	B	2.9	4.27
	6	NH4 mg/L	12/6/2002	0001	0.1780	5	0.029	0.075	0.0236	8/15/2002	N001	0.0896	8/15/2002	0001	0.0886	5/22/2002	0001	0.0292		
CRC	OK				0.004	0	0.090	0.125	0.1326		B		0.004		0.004	B		0.004		0.004
	6	U mg/L	12/6/2002	0001	0.2680	9	0.002	0.024	0.0128	8/15/2002	0001	0.0621	8/15/2002	N001	0.0604	5/22/2002	0001	0.0268		
	*				0.0001	0	0.102	0.102	0.1206			0.0001			0.0001111				0.0001	
	5	NH4 mg/L	12/3/2002	0001	1.5800	5	0.846	0.865	2.7448	8/13/2002	0001	3.3000	8/13/2002	N001	3.1300	5/21/2002	0001	0.8650		
	OK				0.004	0	3.130	3.300	4.9693			0.004			0.004				0.004	
CRD	2	Mo mg/L	12/3/2002	0001	0.0090	9	0.003	0.003	0.0000	8/13/2002	N001	0.0038	8/13/2002	0001	0.0088	5/21/2002	0001	0.0033		
	OK				0.009	0	0.008	0.009	0.0088		B		0.002		0.0018	B		0.0018		
	5	ORP mV	12/3/2002	N001	20.8000	7	83.400	84.000	67.5426	8/13/2002	N001	96.0000	5/21/2002	N001	228.0000	3/12/2002	N001	83.4000		
CRE	2	Mo U	12/3/2002	0001	0.0090	7	0.004	0.004	0.0000	8/13/2002	N001	0.0059	8/13/2002	0001	0.0074	5/20/2002	0001	0.0046		
	OK				0.009	0	0.007	0.007	0.0074		B		0.002		0.0018	B		0.0018		
	5	ORP mV	12/3/2002	N001	54.0000	7	60.000	78.000	104.0700	8/13/2002	N001	152.0000	5/20/2002	N001	238.1000	3/11/2002	N001	124.0000		
MW-3	6	Mo mg/L	12/5/2002	0001	1.2200	6	1.100	1.120	0.9891	8/14/2002	N001	1.1400	8/14/2002	0001	1.1200	5/22/2002	0001	1.1000		
	OK				0.009	0	1.361	1.361	1.1158			0.002			0.0018				0.0036	
	5	NH4 mg/L	12/5/2002	0001	1050.0000	5	1120.000	1150.000	1115.4401	8/14/2002	N001	1150.0000	8/14/2002	0001	1180.0000	5/22/2002	0001	1120.0000		
	OK				0.004	0	1180.000	1190.000	1203.0474			0.004			0.004				0.004	
RW-01	6	ORP mV	12/5/2002	N001	104.0000	4	2.000	10.000	0.0000	8/14/2002	N001	10.0000	5/22/2002	N001	56.0000	3/13/2002	N001	2.0000		
	OK				0	30.100	56.000	58.6784												
RW-01	6	Chloride mg/L	12/4/2002	0001	174.0000	5	135.000	148.000	135.9754	8/19/2002	N001	149.0000	8/19/2002	0001	148.0000	5/31/2002	0001	135.0000		
	OK				0.401	0	156.000	156.000	150.5584			0.2005			0.2005				0.401	

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Approved by D. Weller  
 Hydrologist "Ok" indicates insignificant variation

Date 1/29/03

## SUSPECTED ANOMALIES REPORT

REPORT DATE: 1/29/2003

TIME: 8:48:24 AM

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Site : MOA01 MOAB

Test Data Date Range : 12/2/2002 to 12/12/2002

Older Data Only Used for Baseline Data

868 Chemical Records

5320 History Records

LOC. ID.	ERR. TYPE FLAG	PARAM CODE UNITS	ANOMALOUS TEST DATA POINT			# OF SAMP. ----- %NON DETEC	ALL TIME MINIMUMS ----- ALL TIME MAXIMUMS	LOWER BOUND ----- UPPER BOUND	3 MOST RECENT SAMPLING EVENTS									
			LOG DATE	SAMPLE	VALUE				LOG DATE	SAMPLE	VALUE	LOG DATE	SAMPLE	VALUE	LOG DATE	SAMPLE	VALUE	
			FLAGS	UNCERTAINTY	DETLM				FLAGS	UNCERTAINTY	DETLM	FLAGS	UNCERTAINTY	DETLM	FLAGS	UNCERTAINTY	DETLM	
RW-01	2	Mo mg/L	12/4/2002	0001	0.0090	4	0.002	0.002	0.0000	8/19/2002	N001	0.0020	8/19/2002	0001	0.0018	5/31/2002	0001	0.0018
	OK		U		0.009	75	0.005	0.005	0.0046	U		0.002	U		0.0018	U		0.0018
	6	NO3 mg/L	12/4/2002	0001	15.9000	4	10.300	13.600	13.7760	8/19/2002	0001	13.8000	8/19/2002	N001	13.6000	5/31/2002	0001	14.2000
	OK				0.02	0	13.800	14.200	14.4984			0.02			0.02			0.02
	4	ORP mV	12/4/2002	N001	619.0000	2	91.000	116.000	45.5000	8/19/2002	N001	91.0000	5/31/2002	N001	116.0000	5/31/2002	N001	116.0000
SMI-PZ3M	OK				0	0	116.000	116.000	232.0000									
	6	Mn mg/L	12/4/2002	0001	1.4600	4	1.260	1.290	1.0598	8/15/2002	0001	1.2900	8/15/2002	N001	1.3400	5/30/2002	0001	1.2600
	OK				0.0005	0	2.020	2.020	1.2264			0.0001			0.0001111			0.0001
	6	Na mg/L	12/4/2002	0001	1610.0000	4	1240.000	1490.000	1100.7700	8/15/2002	N001	1490.0000	8/15/2002	0001	1240.0000	5/30/2002	0001	1630.0000
	OK				0.104	0	2340.000	2340.000	1392.3030			0.0322222			0.029			0.042
SMI-PZ3S	4	ORP mV	12/4/2002	N001	136.0000	2	13.000	34.400	6.5000	8/15/2002	N001	13.0000	5/30/2002	N001	34.4000	5/30/2002	N001	34.4000
	OK				0	0	34.400	34.400	68.8000									
	6	SO4 mg/L	12/4/2002	0001	1610.0000	5	173.000	1500.000	0.0000	8/15/2002	0001	1500.0000	8/15/2002	N001	1530.0000	5/30/2002	0001	173.0000
	OK				1.97	0	3660.000	3660.000	1519.5937			1.97			1.97			1.97
	6	Sr mg/L	12/4/2002	0001	4.2200	4	3.360	3.730	2.1975	8/15/2002	0001	3.3600	8/15/2002	N001	3.7300	5/30/2002	0001	4.0100
	OK				0.0005	0	9.470	9.470	2.6519			0.0001			0.0001111			0.0001
	5	Chloride mg/L	12/4/2002	0001	909.0000	5	877.000	878.000	917.7030	8/15/2002	0001	962.0000	8/15/2002	N001	935.0000	5/30/2002	0001	934.0000
	OK				0.802	0	935.000	962.000	981.3593			2.005			2.005			2.005
	5	Mn mg/L	12/4/2002	0001	0.0259	4	0.020	0.031	0.0335	8/15/2002	0001	0.0311	8/15/2002	N001	0.0335	5/30/2002	0001	0.0335
	OK				0.0005	0	0.031	0.034	0.0373			0.0001			0.0001111			0.0001
	6	Mo mg/L	12/4/2002	0001	0.2480	4	0.126	0.158	0.0814	8/15/2002	N001	0.1640	8/15/2002	0001	0.1580	5/30/2002	0001	0.1260
	OK				0.009	0	0.327	0.327	0.1443			0.002			0.0018			0.0018
	6	Na mg/L	12/4/2002	0001	934.0000	4	839.000	881.000	794.5115	8/15/2002	0001	881.0000	8/15/2002	N001	910.0000	5/30/2002	0001	839.0000
	OK				0.026	0	1060.000	1060.000	885.7576			0.029			0.0322222			0.042

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Flags : I - Increased detection limit due to required dilution.  
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Approved by D. Miller  
 Hydrologist "Ok" indicates insignificant variation

Date 1/29/03

## SUSPECTED ANOMALIES REPORT

REPORT DATE: 1/29/2003

TIME: 8:48:25 AM

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Site : MOA01 MOAB

Test Data Date Range : 12/2/2002 to 12/12/2002

Older Data Only Used for Baseline Data

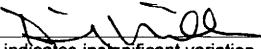
868 Chemical Records

5320 History Records

LOC. ID.	ERR. TYPE FLAG	PARAM CODE UNITS	ANOMALOUS TEST DATA POINT			# OF SAMP. ----- %NON DETEC	ALL TIME MINIMUMS ----- ALL TIME MAXIMUMS	LOWER BOUND ----- UPPER BOUND	3 MOST RECENT SAMPLING EVENTS										
			LOG DATE	SAMPLE	VALUE				LOG DATE	SAMPLE	VALUE	LOG DATE	SAMPLE	VALUE	LOG DATE	SAMPLE	VALUE		
			FLAGS	UNCERTAINTY	DETLIM				FLAGS	UNCERTAINTY	DETLIM	FLAGS	UNCERTAINTY	DETLIM	FLAGS	UNCERTAINTY	DETLIM		
SMI-PZ3S	4	NO3 mg/L	12/4/2002	0001	61.6000	3	15.900	28.200	7.9500	8/15/2002	0001	28.2000	8/15/2002	N001	28.7000	5/30/2002	0001	15.9000	
	OK				0.02	0	28.200	28.700	57.4000			0.02			0.02			0.02	
	2	Ra-226 pCi/L	12/4/2002	0001	0.1400	2	0.120	0.120	0.0000	8/15/2002	0001	0.1200	5/30/2002	0001	0.1200	5/30/2002	0001	0.1200	
	OK			U	0.08	0.14	100	0.120	0.120		0.07	0.12	U	0.07	0.12	U	0.07	0.12	
	2	Ra-228 pCi/L	12/4/2002	0001	1.0000	2	0.660	0.790	0.0000	8/15/2002	0001	0.7900	5/30/2002	0001	0.6600	5/30/2002	0001	0.6600	
	OK			U	0.59	1	100	0.660	0.790		0.46	0.79	U	0.4	0.66	U	0.4	0.66	
	4	Se mg/L	12/4/2002	0001	0.0527	3	0.020	0.025	0.0098	8/15/2002	N001	0.0195	8/15/2002	0001	0.0248	5/30/2002	0001	0.0195	
	OK				0.0005	0	0.020	0.025	0.0496		0.0001111			0.0002			0.0002		
TP-02	5	Sr mg/L	12/4/2002	0001	1.7600	4	1.240	1.920	2.0543	8/15/2002	N001	2.0500	8/15/2002	0001	1.9200	5/30/2002	0001	2.1000	
	OK				0.0005	0	2.050	2.100	2.3187		0.0001111			0.0001			0.0001		
	6	U mg/L	12/4/2002	0001	3.2400	4	1.520	1.930	0.5236	8/15/2002	0001	1.9300	8/15/2002	N001	2.0400	5/30/2002	0001	1.5200	
	OK				0.001	0	3.036	3.036	1.8963		0.001			0.0011111			0.001		
	5	Mo mg/L	12/3/2002	0001	0.4520	11	0.250	0.459	0.5630	8/14/2002	0001	0.5720	8/14/2002	N001	0.5810	5/22/2002	0001	0.6630	
	OK				0.009	0	0.649	0.663	0.7222		0.0018			0.002			0.0018		
	5	NH4 mg/L	12/3/2002	0001	1.4000	5	1.040	1.150	1.9041	8/14/2002	N001	1.6400	8/14/2002	0001	1.8800	5/22/2002	0001	1.4700	
TP-07	5	U mg/L	12/3/2002	0001	13.0000	12	16.500	16.800	13.6357	8/14/2002	N001	16.8000	8/14/2002	0001	16.5000	5/22/2002	0001	17.6000	
	OK				0.01	0	26.000	26.000	20.1438		0.0055556			0.005			0.002		
	5	NH4 mg/L	12/5/2002	0001	88.1000	5	92.200	95.300	126.3632	8/13/2002	0001	871.0000	8/13/2002	N001	95.3000	5/29/2002	0001	105.0000	
	OK				0.004	0	105.000	871.000	1076.5630		0.004			0.004			0.004		
	4	ORP mV	12/3/2002	N001	-103.0000	1	-81.000	-81.000	-40.5000	7/19/2000	N001	-81.0000	7/19/2000	N001	-81.0000	7/19/2000	N001	-81.0000	
	OK				0	-81.000	-81.000	-162.0000											
	4	ORP mV	12/4/2002	N001	-157.0000	1	-102.000	-102.000	-51.0000	7/19/2000	N001	-102.0000	7/19/2000	N001	-102.0000	7/19/2000	N001	-102.0000	
	OK				0	-102.000	-102.000	-204.0000											
	5	U mg/L	12/4/2002	0001	0.0116	4	0.012	0.013	0.0660	7/19/2000	0001	0.1290	5/8/2000	0001	0.0185	11/23/1997	0001	0.0120	
	OK				0.0001	0	0.019	0.129	0.2206		0.001			0.001	B				

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Approved by   
 Hydrologist "Ok" indicates insignificant variation

Date 1/29/03

## SUSPECTED ANOMALIES REPORT

REPORT DATE: 1/29/2003

TIME: 8:48:26 AM

Page 15 of 15

Site : MOA01 MOAB

Test Data Date Range : 12/2/2002 to 12/12/2002

Older Data Only Used for Baseline Data

868 Chemical Records

5320 History Records

LOC. ID.	ERR. TYPE FLAG	PARAM CODE UNITS	ANOMALOUS TEST DATA POINT			# OF SAMP. ----- %NON DETEC	ALL TIME MINIMUMS ----- ALL TIME MAXIMUMS	LOWER BOUND ----- UPPER BOUND	3 MOST RECENT SAMPLING EVENTS									
			LOG DATE	SAMPLE	VALUE				LOG DATE	SAMPLE	VALUE	LOG DATE	SAMPLE	VALUE	LOG DATE	SAMPLE	VALUE	
			FLAGS	UNCERTAINTY	DETLIM				FLAGS	UNCERTAINTY	DETLIM	FLAGS	UNCERTAINTY	DETLIM	FLAGS	UNCERTAINTY	DETLIM	
TP-19	3	ORP mV	12/4/2002	N001	-309.0000	2 0	-290.000 151.000	151.000 151.000	-145.0000 302.0000	7/19/2000	N001	-290.0000	5/8/2000	N001	151.0000	5/8/2000	N001	151.0000
	OK		3 U	0001	0.0001	4	0.001 0.005	0.003 0.015	0.0007 0.0230	7/19/2000	0001	0.0153 0.001	5/8/2000	0001	0.0033 0.001	11/24/1997	0001	0.0050
		OK mg/L		U	0.0001	75												

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Date 1/29/03

# **DATA REVIEW CHECKSHEET**

## ANOMALOUS DATA REVIEW CHECKSHEET

SITE: Moab, UT. SAMPLING DATA: Ground water & Surface water

REVIEWER(s): DAVID MILLER D. Miller 1/29/03  
NAME (print) SIGNATURE DATE

SITE HYDROLOGIST: Kenneth Karp Karl Kays, 1/30/03  
NAME (print) SIGNATURE DATE

DATE OF REVIEW: 1/29/03

# **ANALYTICAL LABORATORY RESULTS**

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			UN-CERTAINTY
								LAB	DATA	QA	
Alkalinity, Total (As CaCO3	mg/L	0412	WL	12/03/2002	0001	13.30 - 13.30	386	F	#	-	-
	mg/L	0430	WL	12/04/2002	0001	96.50 - 96.50	141	F	#	-	-
	mg/L	0431	WL	12/06/2002	0001	93.50 - 93.50	177	FQ	#	-	-
	mg/L	0432	WL	12/05/2002	0001	55.00 - 55.00	151	F	#	-	-
	mg/L	0433	WL	12/05/2002	0001	99.00 - 99.00	160	F	#	-	-
	mg/L	0434	WL	12/05/2002	0001	80.00 - 80.00	201	F	#	-	-
	mg/L	0435	WL	12/04/2002	0001	176.00 - 176.00	108	F	#	-	-
	mg/L	0436	WL	12/04/2002	0001	200.00 - 200.00	92	F	#	-	-
	mg/L	0437	WL	12/10/2002	0001	98.00 - 98.00	610	F	#	-	-
	mg/L	0438	WL	12/10/2002	0001	120.00 - 120.00	640	F	#	-	-
	mg/L	0439	WL	12/09/2002	0001	120.00 - 120.00	837	F	#	-	-
	mg/L	0440	WL	12/06/2002	0001	119.50 - 119.50	1121	FQ	#	-	-
	mg/L	0442	WL	12/09/2002	0001	67.50 - 67.50	1486	F	#	-	-
	mg/L	0443	WL	12/06/2002	0001	75.00 - 75.00	138	F	#	-	-
	mg/L	0444	WL	12/04/2002	0001	118.00 - 118.00	114	F	#	-	-
	mg/L	0455	WL	12/05/2002	0001	46.00 - 46.00	168	FQ	#	-	-
	mg/L	0456	WL	12/05/2002	0001	52.50 - 52.50	171	F	#	-	-
	mg/L	0457	WL	12/04/2002	0001	31.50 - 31.50	184	F	#	-	-
	mg/L	0457	WL	12/04/2002	N002	31.50 - 31.50	173	F	#	-	-
	mg/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	155	F	#	-	-
	mg/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	157	F	#	-	-
	mg/L	AMM-2	WL	12/05/2002	0001	15.00 - 15.00	774	F	#	-	-
	mg/L	AMM-2	WL	12/05/2002	0001	50.00 - 50.00	1036	F	#	-	-
	mg/L	AMM-3	WL	12/05/2002	0001	50.00 - 50.00	936	F	#	-	-
	mg/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	40	F	#	-	-
	mg/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	39	F	#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			UN-CERTAINTY
								LAB	DATA	QA	
Alkalinity, Total (As CaCO <sub>3</sub> )	mg/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	96	F	#	-	-
	mg/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	78	F	#	-	-
	mg/L	ATP-1-S	WL	12/09/2002	0001	140.00 - 140.00	54	F	#	-	-
	mg/L	ATP-2-D	WL	12/05/2002	0001	91.00 - 91.00	169	F	#	-	-
	mg/L	ATP-2-S	WL	12/05/2002	0001	38.00 - 38.00	819	F	#	-	-
	mg/L	ATP-3	WL	12/06/2002	0001	52.60 - 52.60	167	F	#	-	-
	mg/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	187	F	#	-	-
	mg/L	MW-1-R	WL	12/05/2002	0001	14.00 - 14.00	1432	F	#	-	-
	mg/L	MW-3	WL	12/05/2002	0001	54.00 - 54.00	1398	F	#	-	-
	mg/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	151	F	#	-	-
	mg/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	1096	F	#	-	-
	mg/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	1087	F	#	-	-
	mg/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	153	F	#	-	-
	mg/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	645	F	#	-	-
	mg/L	SMI-PZ3M	WL	12/04/2002	0001	60.60 - 60.60	218	F	#	-	-
	mg/L	SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	497	F	#	-	-
	mg/L	TP-01	WL	12/03/2002	0001	23.80 - 23.80	197	F	#	-	-
	mg/L	TP-02	WL	12/03/2002	0001	31.60 - 31.60	596	F	#	-	-
	mg/L	TP-07	WL	12/05/2002	0001	28.60 - 28.60	876	F	#	-	-
	mg/L	TP-11	WL	12/03/2002	0001	31.40 - 31.40	366	F	#	-	-
	mg/L	TP-17	WL	12/03/2002	0001	28.00 - 28.00	176	F	#	-	-
	mg/L	TP-18	WL	12/04/2002	0001	20.90 - 20.90	177	F	#	-	-
	mg/L	TP-19	WL	12/04/2002	0001	29.00 - 29.00	212	F	#	-	-
	mg/L	TP-20	WL	12/04/2002	0001	35.00 - 35.00	171	F	#	-	-
	mg/L	W1-7	WL	12/11/2002	0001	36.00 - 36.00	226	F	#	-	-
Ammonium	mg/L	0412	WL	12/03/2002	0001	13.30 - 13.30	1.300	FJ	#	0.004	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Ammonium	mg/L	0414	WL	12/03/2002	0001	10.60 - 10.60	31.700	FJQ	#	0.004	-	
	mg/L	0430	WL	12/04/2002	0001	96.50 - 96.50	0.0066	B	FJ	#	0.004	-
	mg/L	0430	WL	12/04/2002	0001	105.50 - 105.50	0.004	U	FJ	#	0.004	-
	mg/L	0430	WL	12/04/2002	0002	96.50 - 96.50	0.004	U	FJ	#	0.004	-
	mg/L	0431	WL	12/06/2002	0001	93.50 - 93.50	0.0338	B	FJQ	#	0.004	-
	mg/L	0432	WL	12/05/2002	0001	55.00 - 55.00	0.004	U	FJ	#	0.004	-
	mg/L	0433	WL	12/05/2002	0001	99.00 - 99.00	0.004	U	FJ	#	0.004	-
	mg/L	0434	WL	12/05/2002	0001	80.00 - 80.00	0.110	FJ	#	0.004	-	
	mg/L	0435	WL	12/04/2002	0001	176.00 - 176.00	3.550	FJ	#	0.004	-	
	mg/L	0436	WL	12/04/2002	0001	200.00 - 200.00	4.940	FJ	#	0.004	-	
	mg/L	0437	WL	12/10/2002	0001	98.00 - 98.00	1.590	F	#	0.004	-	
	mg/L	0438	WL	12/10/2002	0001	120.00 - 120.00	31.900	F	#	0.004	-	
	mg/L	0439	WL	12/09/2002	0001	120.00 - 120.00	20.000	F	#	0.004	-	
	mg/L	0440	WL	12/06/2002	0001	119.50 - 119.50	0.0653	B	FJQ	#	0.004	-
	mg/L	0442	WL	12/09/2002	0001	67.50 - 67.50	1770.000	F	#	0.004	-	
	mg/L	0443	WL	12/06/2002	0001	75.00 - 75.00	0.004	U	FJ	#	0.004	-
	mg/L	0444	WL	12/04/2002	0001	118.00 - 118.00	3.060	FJ	#	0.004	-	
	mg/L	0455	WL	12/05/2002	0001	46.00 - 46.00	0.004	U	FJQ	#	0.004	-
	mg/L	0455	WL	12/05/2002	N002	46.00 - 46.00	0.004	U	FJQ	#	0.004	-
	mg/L	0456	WL	12/05/2002	0001	52.50 - 52.50	0.004	U	FJ	#	0.004	-
	mg/L	0456	WL	12/05/2002	N002	52.50 - 52.50	0.004	U	FJ	#	0.004	-
	mg/L	0457	WL	12/04/2002	0001	31.50 - 31.50	0.018	B	FJ	#	0.004	-
	mg/L	0457	WL	12/04/2002	N002	31.50 - 31.50	0.004	U	JF	#	0.004	-
	mg/L	0537	BH	12/10/2002	0001	0.00 - 0.00	16900.000			#	0.004	-
	mg/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	0.004	U	JF	#	0.004	-
	mg/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	0.004	U	JF	#	0.004	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			UN-CERTAINTY
								LAB	DATA	QA	
Ammonium	mg/L	AMM-1	WL	12/03/2002	0002	20.00 - 20.00	0.004	U	JF	#	0.004
	mg/L	AMM-2	WL	12/05/2002	0001	15.00 - 15.00	404.000	JF	#	0.004	-
	mg/L	AMM-2	WL	12/05/2002	0001	50.00 - 50.00	1210.000	JF	#	0.004	-
	mg/L	AMM-3	WL	12/05/2002	0001	50.00 - 50.00	140.000	JF	#	0.004	-
	mg/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	5.070	F	#	0.004	-
	mg/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	5.070	F	#	0.004	-
	mg/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	5.150	F	#	0.004	-
	mg/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	5.030	F	#	0.004	-
	mg/L	ATP-1-S	WL	12/09/2002	0001	140.00 - 140.00	4.670	F	#	0.004	-
	mg/L	ATP-2-D	WL	12/05/2002	0001	91.00 - 91.00	775.000	JF	#	0.004	-
	mg/L	ATP-2-S	WL	12/05/2002	0001	38.00 - 38.00	547.000	JF	#	0.004	-
	mg/L	ATP-3	WL	12/06/2002	0001	52.60 - 52.60	0.0369	B	JF	#	0.004
	mg/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	2.460	F	#	0.004	-
	mg/L	MW-1-R	WL	12/05/2002	0001	14.00 - 14.00	1580.000	JF	#	0.004	-
	mg/L	MW-3	WL	12/05/2002	0001	54.00 - 54.00	1050.000	JF	#	0.004	-
	mg/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	2.260	F	#	0.004	-
	mg/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	1320.000	JF	#	0.004	-
	mg/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	1340.000	JF	#	0.004	-
	mg/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	1310.000	JF	#	0.004	-
	mg/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	0.004	U	JF	#	0.004
	mg/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	586.000	JF	#	0.004	-
	mg/L	SMI-PZ3M	WL	12/04/2002	0001	60.60 - 60.60	49.200	JF	#	0.004	-
	mg/L	SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	13.900	JF	#	0.004	-
	mg/L	TP-01	WL	12/03/2002	0001	23.80 - 23.80	0.004	U	JF	#	0.004
	mg/L	TP-02	WL	12/03/2002	0001	31.60 - 31.60	1.400	JF	#	0.004	-
	mg/L	TP-07	WL	12/05/2002	0001	28.60 - 28.60	88.100	JF	#	0.004	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Ammonium	mg/L	TP-11	WL	12/03/2002	0001	31.40 - 31.40	1.500	JF	#	0.004	-	
	mg/L	TP-17	WL	12/03/2002	0001	28.00 - 28.00	5.020	JF	#	0.004	-	
	mg/L	TP-18	WL	12/04/2002	0001	20.90 - 20.90	5.660	JF	#	0.004	-	
	mg/L	TP-19	WL	12/04/2002	0001	29.00 - 29.00	5.060	JF	#	0.004	-	
	mg/L	TP-20	WL	12/04/2002	0001	35.00 - 35.00	5.650	JF	#	0.004	-	
	mg/L	W1-7	WL	12/11/2002	0001	36.00 - 36.00	0.314	F	#	0.004	-	
Arsenic	mg/L	0412	WL	12/03/2002	0001	13.30 - 13.30	0.0241	F	#	0.0002	-	
	mg/L	0414	WL	12/03/2002	0001	10.60 - 10.60	0.315	FQ	#	0.002	-	
	mg/L	0430	WL	12/04/2002	0001	96.50 - 96.50	0.0003	B	F	#	0.0001	-
	mg/L	0430	WL	12/04/2002	0001	105.50 - 105.50	0.00044	B	F	#	0.0001	-
	mg/L	0430	WL	12/04/2002	0002	96.50 - 96.50	0.00021	B	F	#	0.0001	-
	mg/L	0431	WL	12/06/2002	0001	93.50 - 93.50	0.00011	B	FQ	#	0.0001	-
	mg/L	0432	WL	12/05/2002	0001	55.00 - 55.00	0.0001	U	F	#	0.0001	-
	mg/L	0433	WL	12/05/2002	0001	99.00 - 99.00	0.0001	U	F	#	0.0001	-
	mg/L	0434	WL	12/05/2002	0001	80.00 - 80.00	0.0004	B	F	#	0.0001	-
	mg/L	0435	WL	12/04/2002	0001	176.00 - 176.00	0.0001	U	F	#	0.0001	-
	mg/L	0436	WL	12/04/2002	0001	200.00 - 200.00	0.00022	B	F	#	0.0001	-
	mg/L	0437	WL	12/10/2002	0001	98.00 - 98.00	0.00082	B	F	#	0.0001	-
	mg/L	0438	WL	12/10/2002	0001	120.00 - 120.00	0.00083	B	F	#	0.0001	-
	mg/L	0439	WL	12/09/2002	0001	120.00 - 120.00	0.00011	B	F	#	0.0001	-
	mg/L	0440	WL	12/06/2002	0001	119.50 - 119.50	0.0001	U	FQ	#	0.0001	-
	mg/L	0442	WL	12/09/2002	0001	67.50 - 67.50	0.0039	B	F	#	0.0001	-
	mg/L	0443	WL	12/06/2002	0001	75.00 - 75.00	0.00039	B	F	#	0.0001	-
	mg/L	0444	WL	12/04/2002	0001	118.00 - 118.00	0.00047	B	F	#	0.0001	-
	mg/L	0455	WL	12/05/2002	0001	46.00 - 46.00	0.00053	B	FQ	#	0.0001	-
	mg/L	0455	WL	12/05/2002	N002	46.00 - 46.00	0.0008	B	FQ	#	0.00011	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Arsenic	mg/L	0456	WL	12/05/2002	0001	52.50 - 52.50	0.00018	B	F	#	0.0001	-
	mg/L	0456	WL	12/05/2002	N002	52.50 - 52.50	0.00096	B	F	#	0.00011	-
	mg/L	0457	WL	12/04/2002	0001	31.50 - 31.50	0.0052		F	#	0.0001	-
	mg/L	0457	WL	12/04/2002	N002	31.50 - 31.50	0.0066		F	#	0.00011	-
	mg/L	0537	BH	12/10/2002	0001	0.00 - 0.00	0.0044	B		#	0.0001	-
	mg/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	0.00058	B	F	#	0.0001	-
	mg/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	0.0012	B	F	#	0.0001	-
	mg/L	AMM-1	WL	12/03/2002	0002	20.00 - 20.00	0.0012	B	F	#	0.0001	-
	mg/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	0.0001	U	F	#	0.0001	-
	mg/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	0.00021	B	F	#	0.00011	-
	mg/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	0.00086	B	F	#	0.0001	-
	mg/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	0.0012	B	F	#	0.00011	-
	mg/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	0.0046	B	F	#	0.0001	-
	mg/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	0.00015	B	F	#	0.0001	-
	mg/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	0.00032	B	F	#	0.0001	-
	mg/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	0.00037	B	F	#	0.0001	-
	mg/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	0.00034	B	F	#	0.00011	-
	mg/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	0.0015	B	F	#	0.0001	-
	mg/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	0.00048	B	F	#	0.0001	-
	mg/L	SMI-PZ3M	WL	12/04/2002	0001	60.60 - 60.60	0.00063	B	F	#	0.0001	-
	mg/L	SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	0.0246		F	#	0.0002	-
	mg/L	W1-7	WL	12/11/2002	0001	36.00 - 36.00	0.0005	B	F	#	0.0001	-
Boron	mg/L	0412	WL	12/03/2002	0001	13.30 - 13.30	0.257	B	F	#	0.019	-
	mg/L	0414	WL	12/03/2002	0001	10.60 - 10.60	0.631		FQ	#	0.019	-
	mg/L	0430	WL	12/04/2002	0001	96.50 - 96.50	0.112	B	F	#	0.019	-
	mg/L	0430	WL	12/04/2002	0001	105.50 - 105.50	0.116	B	F	#	0.019	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Boron	mg/L	0430	WL	12/04/2002	0002	96.50 - 96.50	0.0954	B	F	#	0.019	-
	mg/L	0431	WL	12/06/2002	0001	93.50 - 93.50	0.995		FQ	#	0.019	-
	mg/L	0432	WL	12/05/2002	0001	55.00 - 55.00	0.122	B	F	#	0.019	-
	mg/L	0433	WL	12/05/2002	0001	99.00 - 99.00	0.146	B	F	#	0.019	-
	mg/L	0434	WL	12/05/2002	0001	80.00 - 80.00	0.540		F	#	0.019	-
	mg/L	0435	WL	12/04/2002	0001	176.00 - 176.00	1.210		F	#	0.019	-
	mg/L	0436	WL	12/04/2002	0001	200.00 - 200.00	4.100		F	#	0.019	-
	mg/L	0437	WL	12/10/2002	0001	98.00 - 98.00	0.496	B	F	#	0.019	-
	mg/L	0438	WL	12/10/2002	0001	120.00 - 120.00	0.389	B	F	#	0.019	-
	mg/L	0439	WL	12/09/2002	0001	120.00 - 120.00	0.686		F	#	0.019	-
	mg/L	0440	WL	12/06/2002	0001	119.50 - 119.50	0.626		FQ	#	0.019	-
	mg/L	0442	WL	12/09/2002	0001	67.50 - 67.50	0.651		F	#	0.019	-
	mg/L	0443	WL	12/06/2002	0001	75.00 - 75.00	0.219	B	F	#	0.019	-
	mg/L	0444	WL	12/04/2002	0001	118.00 - 118.00	1.170		F	#	0.019	-
	mg/L	0455	WL	12/05/2002	0001	46.00 - 46.00	0.191	B	FQ	#	0.019	-
	mg/L	0455	WL	12/05/2002	N002	46.00 - 46.00	0.163	BE	JFQ	#	0.02111	-
	mg/L	0456	WL	12/05/2002	0001	52.50 - 52.50	0.314	B	F	#	0.019	-
	mg/L	0456	WL	12/05/2002	N002	52.50 - 52.50	0.308	BE	JF	#	0.02111	-
	mg/L	0457	WL	12/04/2002	0001	31.50 - 31.50	0.269	B	F	#	0.019	-
	mg/L	0457	WL	12/04/2002	N002	31.50 - 31.50	0.289	BE	JF	#	0.02111	-
	mg/L	0537	BH	12/10/2002	0001	0.00 - 0.00	1.020			#	0.019	-
	mg/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	0.437	B	F	#	0.019	-
	mg/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	0.474	B	F	#	0.019	-
	mg/L	AMM-1	WL	12/03/2002	0002	20.00 - 20.00	0.485	B	F	#	0.019	-
	mg/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	3.930		F	#	0.019	-
	mg/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	3.950	E	JF	#	0.02111	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Boron	mg/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	4.120	F	#	0.019	-	
	mg/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	4.080	E	JF	#	0.02111	-
	mg/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	1.330	F	#	0.019	-	
	mg/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	1.110	F	#	0.019	-	
	mg/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	0.565	F	#	0.019	-	
	mg/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	0.593	F	#	0.019	-	
	mg/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	0.601	E	JF	#	0.02111	-
	mg/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	0.116	B	F	#	0.019	-
	mg/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	0.329	B	F	#	0.019	-
	mg/L	SMI-PZ3M	WL	12/04/2002	0001	60.60 - 60.60	0.189	B	F	#	0.019	-
Cadmium	mg/L	SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	0.235	B	F	#	0.019	-
	mg/L	W1-7	WL	12/11/2002	0001	36.00 - 36.00	0.552	F	#	0.019	-	
	mg/L	0412	WL	12/03/2002	0001	13.30 - 13.30	0.0015	F	#	0.0001	-	
	mg/L	0414	WL	12/03/2002	0001	10.60 - 10.60	0.0018	FQ	#	0.0001	-	
	mg/L	0430	WL	12/04/2002	0001	96.50 - 96.50	0.0001	U	F	#	0.0001	-
	mg/L	0430	WL	12/04/2002	0001	105.50 - 105.50	0.0001	U	F	#	0.0001	-
	mg/L	0430	WL	12/04/2002	0002	96.50 - 96.50	0.0001	U	F	#	0.0001	-
	mg/L	0431	WL	12/06/2002	0001	93.50 - 93.50	0.0001	B	FQ	#	0.0001	-
	mg/L	0432	WL	12/05/2002	0001	55.00 - 55.00	0.0001	U	F	#	0.0001	-
	mg/L	0433	WL	12/05/2002	0001	99.00 - 99.00	0.0001	U	F	#	0.0001	-
	mg/L	0434	WL	12/05/2002	0001	80.00 - 80.00	0.0001	U	F	#	0.0001	-
	mg/L	0435	WL	12/04/2002	0001	176.00 - 176.00	0.00016	B	F	#	0.0001	-
	mg/L	0436	WL	12/04/2002	0001	200.00 - 200.00	0.0001	U	F	#	0.0001	-
	mg/L	0437	WL	12/10/2002	0001	98.00 - 98.00	0.0155	F	#	0.0001	-	
	mg/L	0438	WL	12/10/2002	0001	120.00 - 120.00	0.00068	B	F	#	0.0001	-
	mg/L	0439	WL	12/09/2002	0001	120.00 - 120.00	0.00036	B	F	#	0.0001	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Cadmium	mg/L	0440	WL	12/06/2002	0001	119.50 - 119.50	0.00088	B	FQ	#	0.0001	-
	mg/L	0442	WL	12/09/2002	0001	67.50 - 67.50	0.006		F	#	0.0001	-
	mg/L	0443	WL	12/06/2002	0001	75.00 - 75.00	0.0001	U	F	#	0.0001	-
	mg/L	0444	WL	12/04/2002	0001	118.00 - 118.00	0.0001	U	F	#	0.0001	-
	mg/L	0455	WL	12/05/2002	0001	46.00 - 46.00	0.0001	U	FQ	#	0.0001	-
	mg/L	0455	WL	12/05/2002	N002	46.00 - 46.00	0.00011	U	FQ	#	0.00011	-
	mg/L	0456	WL	12/05/2002	0001	52.50 - 52.50	0.0001	U	F	#	0.0001	-
	mg/L	0456	WL	12/05/2002	N002	52.50 - 52.50	0.00011	U	F	#	0.00011	-
	mg/L	0457	WL	12/04/2002	0001	31.50 - 31.50	0.0001	U	F	#	0.0001	-
	mg/L	0457	WL	12/04/2002	N002	31.50 - 31.50	0.00018	B	F	#	0.00011	-
	mg/L	0537	BH	12/10/2002	0001	0.00 - 0.00	2.450			#	0.0025	-
	mg/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	0.0001	U	F	#	0.0001	-
	mg/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	0.0001	U	F	#	0.0001	-
	mg/L	AMM-1	WL	12/03/2002	0002	20.00 - 20.00	0.0001	U	F	#	0.0001	-
	mg/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	0.0001	U	F	#	0.0001	-
	mg/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	0.00011	U	F	#	0.00011	-
	mg/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	0.0001	U	F	#	0.0001	-
	mg/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	0.00011	U	F	#	0.00011	-
	mg/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	0.0001	U	F	#	0.0001	-
	mg/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	0.0001	U	F	#	0.0001	-
	mg/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	0.002		F	#	0.0001	-
	mg/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	0.002		F	#	0.0001	-
	mg/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	0.0025		F	#	0.00011	-
	mg/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	0.0001	U	F	#	0.0001	-
	mg/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	0.0021		F	#	0.0001	-
	mg/L	SMI-PZ3M	WL	12/04/2002	0001	60.60 - 60.60	0.00017	B	F	#	0.0001	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Cadmium	mg/L	SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	0.00057	B	F	#	0.0001	-
	mg/L	W1-7	WL	12/11/2002	0001	36.00 - 36.00	0.0001	U	F	#	0.0001	-
Chloride	mg/L	0412	WL	12/03/2002	0001	13.30 - 13.30	736.000		F	#	0.802	-
	mg/L	0414	WL	12/03/2002	0001	10.60 - 10.60	244.000		FQ	#	0.802	-
	mg/L	0430	WL	12/04/2002	0001	96.50 - 96.50	368.000		F	#	0.401	-
	mg/L	0430	WL	12/04/2002	0001	105.50 - 105.50	1700.000		F	#	2.005	-
	mg/L	0430	WL	12/04/2002	0002	96.50 - 96.50	376.000		F	#	0.401	-
	mg/L	0431	WL	12/06/2002	0001	93.50 - 93.50	13300.000		FQ	#	20.05	-
	mg/L	0432	WL	12/05/2002	0001	55.00 - 55.00	738.000		F	#	0.802	-
	mg/L	0433	WL	12/05/2002	0001	99.00 - 99.00	1190.000		F	#	0.802	-
	mg/L	0434	WL	12/05/2002	0001	80.00 - 80.00	15800.000		F	#	20.05	-
	mg/L	0435	WL	12/04/2002	0001	176.00 - 176.00	55400.000		F	#	40.1	-
	mg/L	0436	WL	12/04/2002	0001	200.00 - 200.00	59600.000		F	#	40.1	-
	mg/L	0437	WL	12/10/2002	0001	98.00 - 98.00	1460.000		F	#	2.005	-
	mg/L	0438	WL	12/10/2002	0001	120.00 - 120.00	990.000		F	#	2.005	-
	mg/L	0439	WL	12/09/2002	0001	120.00 - 120.00	1100.000		F	#	2.005	-
	mg/L	0440	WL	12/06/2002	0001	119.50 - 119.50	1850.000		FQ	#	2.005	-
	mg/L	0442	WL	12/09/2002	0001	67.50 - 67.50	1240.000		F	#	4.01	-
	mg/L	0443	WL	12/06/2002	0001	75.00 - 75.00	1860.000		F	#	2.005	-
	mg/L	0444	WL	12/04/2002	0001	118.00 - 118.00	50700.000		F	#	20.05	-
	mg/L	0455	WL	12/05/2002	0001	46.00 - 46.00	678.000		FQ	#	0.802	-
	mg/L	0455	WL	12/05/2002	N002	46.00 - 46.00	660.000		FQ	#	0.802	-
	mg/L	0456	WL	12/05/2002	0001	52.50 - 52.50	2390.000		F	#	2.005	-
	mg/L	0456	WL	12/05/2002	N002	52.50 - 52.50	2330.000		F	#	2.005	-
	mg/L	0457	WL	12/04/2002	0001	31.50 - 31.50	1520.000		F	#	2.005	-
	mg/L	0457	WL	12/04/2002	N002	31.50 - 31.50	1530.000		F	#	2.005	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION	LOCATION	SAMPLE:	DEPTH RANGE	RESULT	QUALIFIERS:			UN-	
		ID	TYPE	DATE			LAB	DATA	QA		
Chloride	mg/L	0537	BH	12/10/2002	0001	0.00 - 0.00	4480.000		#	20.05	-
	mg/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	3300.000	F	#	2.005	-
	mg/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	3350.000	F	#	2.005	-
	mg/L	AMM-1	WL	12/03/2002	0002	20.00 - 20.00	3310.000	F	#	2.005	-
	mg/L	AMM-2	WL	12/05/2002	0001	15.00 - 15.00	2250.000	F	#	4.01	-
	mg/L	AMM-2	WL	12/05/2002	0001	50.00 - 50.00	2360.000	F	#	8.02	-
	mg/L	AMM-3	WL	12/05/2002	0001	50.00 - 50.00	1230.000	F	#	4.01	-
	mg/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	65700.000	F	#	40.1	-
	mg/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	66000.000	F	#	40.1	-
	mg/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	65800.000	F	#	40.1	-
	mg/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	63800.000	F	#	40.1	-
	mg/L	ATP-1-S	WL	12/09/2002	0001	140.00 - 140.00	61800.000	F	#	40.1	-
	mg/L	ATP-2-D	WL	12/05/2002	0001	91.00 - 91.00	49800.000	F	#	20.05	-
	mg/L	ATP-2-S	WL	12/05/2002	0001	38.00 - 38.00	4390.000	F	#	4.01	-
	mg/L	ATP-3	WL	12/06/2002	0001	52.60 - 52.60	660.000	F	#	0.401	-
	mg/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	29500.000	F	#	20.05	-
	mg/L	MW-1-R	WL	12/05/2002	0001	14.00 - 14.00	1280.000	F	#	8.02	-
	mg/L	MW-3	WL	12/05/2002	0001	54.00 - 54.00	4420.000	F	#	8.02	-
	mg/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	32300.000	F	#	20.05	-
	mg/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	1510.000	F	#	4.01	-
	mg/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	1500.000	F	#	4.01	-
	mg/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	1430.000	F	#	4.01	-
	mg/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	174.000	F	#	0.401	-
	mg/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	3250.000	F	#	4.01	-
	mg/L	SMI-PZ3M	WL	12/04/2002	0001	60.60 - 60.60	2050.000	F	#	2.005	-
	mg/L	SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	909.000	F	#	0.802	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Chloride	mg/L	TP-01	WL	12/03/2002	0001	23.80 - 23.80	5220.000	F	#	4.01	-	
	mg/L	TP-02	WL	12/03/2002	0001	31.60 - 31.60	536.000	F	#	0.802	-	
	mg/L	TP-07	WL	12/05/2002	0001	28.60 - 28.60	2160.000	F	#	4.01	-	
	mg/L	TP-11	WL	12/03/2002	0001	31.40 - 31.40	6410.000	F	#	4.01	-	
	mg/L	TP-17	WL	12/03/2002	0001	28.00 - 28.00	58000.000	F	#	40.1	-	
	mg/L	TP-18	WL	12/04/2002	0001	20.90 - 20.90	63500.000	F	#	40.1	-	
	mg/L	TP-19	WL	12/04/2002	0001	29.00 - 29.00	63000.000	F	#	40.1	-	
	mg/L	TP-20	WL	12/04/2002	0001	35.00 - 35.00	62600.000	F	#	40.1	-	
	mg/L	W1-7	WL	12/11/2002	0001	36.00 - 36.00	30300.000	F	#	20.05	-	
Dissolved Oxygen	mg/L	0412	WL	12/03/2002	N001	13.30 - 13.30	0.41	F	#	-	-	
	mg/L	0414	WL	12/03/2002	N001	10.60 - 10.60	4.18	FQ	#	-	-	
	mg/L	0430	WL	12/04/2002	N001	96.50 - 96.50	0.69	F	#	-	-	
	mg/L	0431	WL	12/06/2002	N001	93.50 - 93.50	0.43	FQ	#	-	-	
	mg/L	0432	WL	12/05/2002	N001	55.00 - 55.00	4.23	F	#	-	-	
	mg/L	0433	WL	12/05/2002	N001	99.00 - 99.00	2.1	F	#	-	-	
	mg/L	0434	WL	12/05/2002	N001	80.00 - 80.00	0.4	F	#	-	-	
	mg/L	0435	WL	12/04/2002	N001	176.00 - 176.00	2.36	F	#	-	-	
	mg/L	0436	WL	12/04/2002	N001	200.00 - 200.00	0.27	F	#	-	-	
	mg/L	0437	WL	12/10/2002	N001	98.00 - 98.00	0.58	F	#	-	-	
	mg/L	0438	WL	12/10/2002	N001	120.00 - 120.00	1.58	F	#	-	-	
	mg/L	0440	WL	12/06/2002	N001	119.50 - 119.50	3.53	FQ	#	-	-	
	mg/L	0442	WL	12/09/2002	N001	67.50 - 67.50	1.71	F	#	-	-	
	mg/L	0443	WL	12/06/2002	N001	75.00 - 75.00	1.55	F	#	-	-	
	mg/L	0444	WL	12/04/2002	N001	118.00 - 118.00	0.2	F	#	-	-	
	mg/L	0455	WL	12/05/2002	N001	46.00 - 46.00	0.57	FQ	#	-	-	
	mg/L	0456	WL	12/05/2002	N001	52.50 - 52.50	2.41	F	#	-	-	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
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PARAMETER	UNITS	LOCATION	LOCATION	SAMPLE:	DEPTH RANGE	RESULT	QUALIFIERS:			DETECTION	UN-
		ID	TYPE	DATE			LAB	DATA	QA		
Dissolved Oxygen	mg/L	0457	WL	12/04/2002	N001	31.50 - 31.50	0.69	F	#	-	-
	mg/L	0457	WL	12/04/2002	N002	31.50 - 31.50	0.69	F	#	-	-
	mg/L	AMM-1	WL	12/03/2002	N001	55.00 - 55.00	0.9	F	#	-	-
	mg/L	AMM-1	WL	12/03/2002	N001	20.00 - 20.00	3.99	F	#	-	-
	mg/L	AMM-2	WL	12/05/2002	N001	50.00 - 50.00	0.32	F	#	-	-
	mg/L	AMM-2	WL	12/05/2002	N001	15.00 - 15.00	0.37	F	#	-	-
	mg/L	AMM-3	WL	12/05/2002	N001	50.00 - 50.00	0.35	F	#	-	-
	mg/L	ATP-1-D	WL	12/10/2002	N001	399.00 - 399.00	0.17	F	#	-	-
	mg/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	0.17	F	#	-	-
	mg/L	ATP-1-ID	WL	12/10/2002	N001	310.00 - 310.00	0.37	F	#	-	-
	mg/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	0.37	F	#	-	-
	mg/L	ATP-1-S	WL	12/09/2002	N001	140.00 - 140.00	0.28	F	#	-	-
	mg/L	ATP-2-D	WL	12/05/2002	N001	91.00 - 91.00	0.13	F	#	-	-
	mg/L	ATP-2-S	WL	12/05/2002	N001	38.00 - 38.00	0.52	F	#	-	-
	mg/L	ATP-3	WL	12/06/2002	N001	52.60 - 52.60	2.49	F	#	-	-
	mg/L	M11-14.0	WL	12/11/2002	N001	45.90 - 45.90	0.69	F	#	-	-
	mg/L	MW-1-R	WL	12/05/2002	N001	14.00 - 14.00	0.62	F	#	-	-
	mg/L	MW-3	WL	12/05/2002	N001	54.00 - 54.00	0.49	F	#	-	-
	mg/L	N7-10	WL	12/11/2002	N001	32.80 - 32.80	0.27	F	#	-	-
	mg/L	OW-2	WL	12/05/2002	N001	31.40 - 31.40	0.43	F	#	-	-
	mg/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	0.43	F	#	-	-
	mg/L	RW-01	WL	12/04/2002	N001	75.00 - 75.00	5.05	F	#	-	-
	mg/L	SMI-PZ3D2	WL	12/04/2002	N001	80.00 - 80.00	0.36	F	#	-	-
	mg/L	SMI-PZ3M	WL	12/04/2002	N001	60.60 - 60.60	0.31	F	#	-	-
	mg/L	SMI-PZ3S	WL	12/04/2002	N001	27.30 - 27.30	0.97	F	#	-	-
	mg/L	TP-01	WL	12/03/2002	N001	23.80 - 23.80	0.32	F	#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION	LOCATION	SAMPLE:	DEPTH RANGE	RESULT	QUALIFIERS:			DETECTION	UN-
		ID	TYPE	DATE			LAB	DATA	QA		
Dissolved Oxygen	mg/L	TP-02	WL	12/03/2002	N001	31.60 - 31.60	0.42	F	#	-	-
	mg/L	TP-07	WL	12/05/2002	N001	28.60 - 28.60	0.29	F	#	-	-
	mg/L	TP-11	WL	12/03/2002	N001	31.40 - 31.40	0.27	F	#	-	-
	mg/L	TP-17	WL	12/03/2002	N001	28.00 - 28.00	0.2	F	#	-	-
	mg/L	TP-18	WL	12/04/2002	N001	20.90 - 20.90	0.91	F	#	-	-
	mg/L	TP-20	WL	12/04/2002	N001	35.00 - 35.00	0.75	F	#	-	-
	mg/L	W1-7	WL	12/11/2002	N001	36.00 - 36.00	0.22	F	#	-	-
Fluoride	mg/L	0412	WL	12/03/2002	0001	13.30 - 13.30	0.566	F	#	0.0502	-
	mg/L	0414	WL	12/03/2002	0001	10.60 - 10.60	1.370	FQ	#	0.0502	-
	mg/L	0430	WL	12/04/2002	0001	96.50 - 96.50	0.113	F	#	0.0251	-
	mg/L	0430	WL	12/04/2002	0001	105.50 - 105.50	0.401	B	F	#	0.1255
	mg/L	0430	WL	12/04/2002	0002	96.50 - 96.50	0.133	F	#	0.0251	-
	mg/L	0431	WL	12/06/2002	0001	93.50 - 93.50	0.994	B	FQ	#	0.502
	mg/L	0432	WL	12/05/2002	0001	55.00 - 55.00	0.108	B	UF	#	0.0502
	mg/L	0433	WL	12/05/2002	0001	99.00 - 99.00	0.330	F	#	0.0502	-
	mg/L	0434	WL	12/05/2002	0001	80.00 - 80.00	3.080	B	F	#	1.255
	mg/L	0435	WL	12/04/2002	0001	176.00 - 176.00	8.080	B	F	#	2.51
	mg/L	0436	WL	12/04/2002	0001	200.00 - 200.00	3.900	B	F	#	2.51
	mg/L	0437	WL	12/10/2002	0001	98.00 - 98.00	1.600	F	#	0.1255	-
	mg/L	0438	WL	12/10/2002	0001	120.00 - 120.00	0.611	F	#	0.1255	-
	mg/L	0439	WL	12/09/2002	0001	120.00 - 120.00	0.166	B	UF	#	0.1255
	mg/L	0440	WL	12/06/2002	0001	119.50 - 119.50	0.377	B	FQ	#	0.1255
	mg/L	0442	WL	12/09/2002	0001	67.50 - 67.50	0.935	B	F	#	0.251
	mg/L	0443	WL	12/06/2002	0001	75.00 - 75.00	0.562	F	#	0.1255	-
	mg/L	0444	WL	12/04/2002	0001	118.00 - 118.00	2.280	B	F	#	1.255
	mg/L	0455	WL	12/05/2002	0001	46.00 - 46.00	0.151	B	UFQ	#	0.0502

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION	LOCATION	SAMPLE:	DEPTH RANGE	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-
		ID	TYPE	DATE			LAB	DATA	QA		
Fluoride	mg/L	0455	WL	12/05/2002	N002	46.00 - 46.00	0.310	FQ	#	0.0502	-
	mg/L	0456	WL	12/05/2002	0001	52.50 - 52.50	0.546	F	#	0.1255	-
	mg/L	0456	WL	12/05/2002	N002	52.50 - 52.50	0.240	B	UF	#	0.1255
	mg/L	0457	WL	12/04/2002	0001	31.50 - 31.50	0.309	F	#	0.0502	-
	mg/L	0457	WL	12/04/2002	N002	31.50 - 31.50	0.0886	B	UF	#	0.0502
	mg/L	0537	BH	12/10/2002	0001	0.00 - 0.00	118.000		#	1.255	-
	mg/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	0.193	B	UF	#	0.1255
	mg/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	0.941	F	#	0.1255	-
	mg/L	AMM-1	WL	12/03/2002	0002	20.00 - 20.00	0.695	F	#	0.1255	-
	mg/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	10.300	F	#	2.51	-
	mg/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	10.600	F	#	2.51	-
	mg/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	7.680	B	F	#	2.51
	mg/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	6.920	B	F	#	2.51
	mg/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	3.280	B	F	#	1.255
	mg/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	3.370	B	F	#	1.255
	mg/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	1.400	F	#	0.251	-
	mg/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	1.350	F	#	0.251	-
	mg/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	2.900	F	#	0.251	-
	mg/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	0.319	F	#	0.0251	-
Gross Alpha	pCi/L	0412	WL	12/03/2002	0001	13.30 - 13.30	11558.4	F	#	38.19	± 277.
	pCi/L	0414	WL	12/03/2002	0001	10.60 - 10.60	3116.27	FQ	#	23.51	± 103.
	pCi/L	0430	WL	12/04/2002	0001	96.50 - 96.50	11.76	B	UF	#	6.94

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Gross Alpha	pCi/L	0430	WL	12/04/2002	0001	105.50 - 105.50	21.17	UB	F	#	21.17	± 12.7
	pCi/L	0430	WL	12/04/2002	0002	96.50 - 96.50	7.04	UB	F	#	7.04	± 4.38
	pCi/L	0431	WL	12/06/2002	0001	93.50 - 93.50	174.15	U	FQ	#	174.15	± 100.
	pCi/L	0432	WL	12/05/2002	0001	55.00 - 55.00	12.77	UB	F	#	12.77	± 7.20
	pCi/L	0433	WL	12/05/2002	0001	99.00 - 99.00	17.65	U	F	#	17.65	± 9.33
	pCi/L	0434	WL	12/05/2002	0001	80.00 - 80.00	205.35	UB	F	#	205.35	± 124.
	pCi/L	0435	WL	12/04/2002	0001	176.00 - 176.00	727.31	U	F	#	727.31	± 395.
	pCi/L	0436	WL	12/04/2002	0001	200.00 - 200.00	830.53	U	F	#	830.53	± 466.
	pCi/L	0437	WL	12/10/2002	0001	98.00 - 98.00	2728.25	F	F	#	56.02	± 143.
	pCi/L	0438	WL	12/10/2002	0001	120.00 - 120.00	1261.26	F	F	#	49.33	± 92.7
	pCi/L	0439	WL	12/09/2002	0001	120.00 - 120.00	673.62	F	F	#	51.29	± 71.2
	pCi/L	0440	WL	12/06/2002	0001	119.50 - 119.50	41.74	U	FQ	#	41.74	± 25.5
	pCi/L	0442	WL	12/09/2002	0001	67.50 - 67.50	6048.38	F	F	#	132.06	± 324.
	pCi/L	0443	WL	12/06/2002	0001	75.00 - 75.00	24.63	U	F	#	24.63	± 13.6
	pCi/L	0444	WL	12/04/2002	0001	118.00 - 118.00	724.31	U	F	#	724.31	± 388.
	pCi/L	0455	WL	12/05/2002	0001	46.00 - 46.00	18.16	U	FQ	#	18.16	± 10.5
	pCi/L	0455	WL	12/05/2002	N002	46.00 - 46.00	18.49	U	FQ	#	18.49	± 9.75
	pCi/L	0456	WL	12/05/2002	0001	52.50 - 52.50	37.38	UB	F	#	37.38	± 21.3
	pCi/L	0456	WL	12/05/2002	N002	52.50 - 52.50	37.41	U	F	#	37.41	± 21.5
	pCi/L	0457	WL	12/04/2002	0001	31.50 - 31.50	24.69	U	F	#	24.69	± 13.9
	pCi/L	0457	WL	12/04/2002	N002	31.50 - 31.50	2527.35	F	F	#	113.13	± 199.
	pCi/L	0537	BH	12/10/2002	0001	0.00 - 0.00	7209.51			#	930.96	± 1041
	pCi/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	50.19	U	F	#	50.19	± 29.0
	pCi/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	51.41	U	F	#	51.41	± 27.7
	pCi/L	AMM-1	WL	12/03/2002	0002	20.00 - 20.00	50.12	U	F	#	50.12	± 25.9
	pCi/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	934.74	U	F	#	934.74	± 514.

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Gross Alpha	pCi/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	936.21	U	F	#	936.21	± 501.
	pCi/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	930.37	U	F	#	930.37	± 498.
	pCi/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	733.36	U	F	#	733.36	± 378.
	pCi/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	360.83	U	F	#	360.83	± 201.
	pCi/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	473.08	U	F	#	473.08	± 256.
	pCi/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	2342.67		F	#	112.11	± 191.
	pCi/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	2234.86		F	#	111.74	± 186.
	pCi/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	2035.95		F	#	111.59	± 179.
	pCi/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	6.73	B	UF	#	5.13	± 3.47
	pCi/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	1463.52		F	#	118.31	± 160.
	pCi/L	SMI-PZ3M	WL	12/04/2002	0001	60.60 - 60.60	549.38		F	#	38.07	± 55.1
	pCi/L	SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	3368.24		F	#	29.36	± 118.
Gross Beta	pCi/L	W1-7	WL	12/11/2002	0001	36.00 - 36.00	356.33	U	F	#	356.33	± 195.
	pCi/L	0412	WL	12/03/2002	0001	13.30 - 13.30	3018.82		F	#	47.91	± 86.3
	pCi/L	0414	WL	12/03/2002	0001	10.60 - 10.60	798.14		FQ	#	26.73	± 33.5
	pCi/L	0430	WL	12/04/2002	0001	96.50 - 96.50	15.62		F	#	6.01	± 4.03
	pCi/L	0430	WL	12/04/2002	0001	105.50 - 105.50	30.18		F	#	17.97	± 11.4
	pCi/L	0430	WL	12/04/2002	0002	96.50 - 96.50	14.05		F	#	5.99	± 3.97
	pCi/L	0431	WL	12/06/2002	0001	93.50 - 93.50	174.24		FQ	#	149.44	± 92.7
	pCi/L	0432	WL	12/05/2002	0001	55.00 - 55.00	19.84		F	#	11.18	± 7.19
	pCi/L	0433	WL	12/05/2002	0001	99.00 - 99.00	14.94	U	F	#	14.94	± 9.13
	pCi/L	0434	WL	12/05/2002	0001	80.00 - 80.00	221.35		F	#	179.32	± 111.
	pCi/L	0435	WL	12/04/2002	0001	176.00 - 176.00	638.66	U	F	#	638.66	± 385.
	pCi/L	0436	WL	12/04/2002	0001	200.00 - 200.00	744.48	U	F	#	744.48	± 452.
	pCi/L	0437	WL	12/10/2002	0001	98.00 - 98.00	770.24		F	#	53.21	± 52.0
	pCi/L	0438	WL	12/10/2002	0001	120.00 - 120.00	408.09		F	#	48.94	± 40.8

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION	LOCATION	SAMPLE:	DEPTH RANGE	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-	
		ID	TYPE	DATE			LAB	DATA	QA			
Gross Beta	pCi/L	0439	WL	12/09/2002	0001	120.00 - 120.00	291.84	F	#	46.96	± 36.6	
	pCi/L	0440	WL	12/06/2002	0001	119.50 - 119.50	51.95	FQ	#	37.3	± 23.4	
	pCi/L	0442	WL	12/09/2002	0001	67.50 - 67.50	2752.78	F	#	131.69	± 149.	
	pCi/L	0443	WL	12/06/2002	0001	75.00 - 75.00	22.31	U	F	#	22.31	± 13.5
	pCi/L	0444	WL	12/04/2002	0001	118.00 - 118.00	638.27	U	F	#	638.27	± 390.
	pCi/L	0455	WL	12/05/2002	0001	46.00 - 46.00	16.01	U	FQ	#	16.01	± 9.87
	pCi/L	0455	WL	12/05/2002	N002	46.00 - 46.00	16	U	FQ	#	16	± 9.87
	pCi/L	0456	WL	12/05/2002	0001	52.50 - 52.50	45.77	F	#	32.02	± 20.1	
	pCi/L	0456	WL	12/05/2002	N002	52.50 - 52.50	32.03	U	F	#	32.03	± 19.5
	pCi/L	0457	WL	12/04/2002	0001	31.50 - 31.50	22.32	U	F	#	22.32	± 13.5
	pCi/L	0457	WL	12/04/2002	N002	31.50 - 31.50	975.49	F	#	120.46	± 99.9	
	pCi/L	0537	BH	12/10/2002	0001	0.00 - 0.00	4812.77		#	915.53	± 690.	
	pCi/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	44.72	U	F	#	44.72	± 26.7
	pCi/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	46.02	F	#	44.73	± 27.5	
	pCi/L	AMM-1	WL	12/03/2002	0002	20.00 - 20.00	44.62	U	F	#	44.62	± 27.3
	pCi/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	889.63	U	F	#	889.63	± 543.
	pCi/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	889.26	U	F	#	889.26	± 543.
	pCi/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	888.94	U	F	#	888.94	± 544.
	pCi/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	880.53	F	#	599.05	± 378.	
	pCi/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	299.61	U	F	#	299.61	± 179.
	pCi/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	444.99	U	F	#	444.99	± 273.
	pCi/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	1001.57	F	#	119.82	± 100.	
	pCi/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	968.1	F	#	119.42	± 99.3	
	pCi/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	922.65	F	#	118.67	± 97.7	
	pCi/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	11.71	F	#	4.49	± 3.02	
	pCi/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	747.8	F	#	116.52	± 91.7	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Gross Beta	pCi/L	SMI-PZ3M	WL	12/04/2002	0001	60.60 - 60.60	188.79	F	#	33.79	± 25.7	
	pCi/L	SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	863.14	F	#	32.01	± 38.6	
	pCi/L	W1-7	WL	12/11/2002	0001	36.00 - 36.00	299.19	U	F	#	299.19	± 177.
Iron	mg/L	0412	WL	12/03/2002	0001	13.30 - 13.30	0.0075	U	F	#	0.0075	-
	mg/L	0414	WL	12/03/2002	0001	10.60 - 10.60	0.0075	U	FQ	#	0.0075	-
	mg/L	0430	WL	12/04/2002	0001	96.50 - 96.50	0.0467	B	F	#	0.0075	-
	mg/L	0430	WL	12/04/2002	0001	105.50 - 105.50	0.297	F	#	0.0075	-	
	mg/L	0430	WL	12/04/2002	0002	96.50 - 96.50	0.0081	B	UF	#	0.0075	-
	mg/L	0431	WL	12/06/2002	0001	93.50 - 93.50	0.433	FQ	#	0.0075	-	
	mg/L	0432	WL	12/05/2002	0001	55.00 - 55.00	0.0251	B	F	#	0.0075	-
	mg/L	0433	WL	12/05/2002	0001	99.00 - 99.00	0.0572	B	F	#	0.0075	-
	mg/L	0434	WL	12/05/2002	0001	80.00 - 80.00	1.580	F	#	0.0075	-	
	mg/L	0435	WL	12/04/2002	0001	176.00 - 176.00	2.420	F	#	0.0075	-	
	mg/L	0436	WL	12/04/2002	0001	200.00 - 200.00	6.050	F	#	0.0075	-	
	mg/L	0437	WL	12/10/2002	0001	98.00 - 98.00	0.0355	B	F	#	0.0075	-
	mg/L	0438	WL	12/10/2002	0001	120.00 - 120.00	3.630	F	#	0.0075	-	
	mg/L	0439	WL	12/09/2002	0001	120.00 - 120.00	0.0075	U	F	#	0.0075	-
	mg/L	0440	WL	12/06/2002	0001	119.50 - 119.50	0.0075	U	FQ	#	0.0075	-
	mg/L	0442	WL	12/09/2002	0001	67.50 - 67.50	0.0075	U	F	#	0.0075	-
	mg/L	0443	WL	12/06/2002	0001	75.00 - 75.00	0.0075	U	F	#	0.0075	-
	mg/L	0444	WL	12/04/2002	0001	118.00 - 118.00	10.800	F	#	0.0075	-	
	mg/L	0455	WL	12/05/2002	0001	46.00 - 46.00	0.115	B	FQ	#	0.0075	-
	mg/L	0455	WL	12/05/2002	N002	46.00 - 46.00	0.736	FQ	#	0.00833	-	
	mg/L	0456	WL	12/05/2002	0001	52.50 - 52.50	0.0194	B	F	#	0.0075	-
	mg/L	0456	WL	12/05/2002	N002	52.50 - 52.50	1.040	F	#	0.00833	-	
	mg/L	0457	WL	12/04/2002	0001	31.50 - 31.50	0.219	F	#	0.0075	-	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION	LOCATION	SAMPLE:	DEPTH RANGE	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-	
		ID	TYPE	DATE			LAB	DATA	QA			
Iron	mg/L	0457	WL	12/04/2002	N002	31.50 - 31.50	0.283	F	#	0.00833	-	
	mg/L	0537	BH	12/10/2002	0001	0.00 - 0.00	947.000		#	0.0075	-	
	mg/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	0.0075	U	F	#	0.0075	-
	mg/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	0.0075	U	F	#	0.0075	-
	mg/L	AMM-1	WL	12/03/2002	0002	20.00 - 20.00	0.0075	U	F	#	0.0075	-
	mg/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	0.0313	B	F	#	0.0075	-
	mg/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	2.340	F	#	0.00833	-	
	mg/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	1.870	F	#	0.0075	-	
	mg/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	2.970	F	#	0.00833	-	
	mg/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	17.900	F	#	0.0075	-	
	mg/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	5.170	F	#	0.0075	-	
	mg/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	0.111	B	F	#	0.0075	-
	mg/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	0.0075	U	F	#	0.0075	-
	mg/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	0.0204	B	UF	#	0.00833	-
	mg/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	0.0131	B	UF	#	0.0075	-
	mg/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	0.0075	U	F	#	0.0075	-
	mg/L	SMI-PZ3M	WL	12/04/2002	0001	60.60 - 60.60	0.127	B	F	#	0.0075	-
	mg/L	SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	0.0075	U	F	#	0.0075	-
	mg/L	W1-7	WL	12/11/2002	0001	36.00 - 36.00	22.300	F	#	0.0075	-	
Lithium	mg/L	0412	WL	12/03/2002	0001	13.30 - 13.30	0.0783	B	F	#	0.0025	-
	mg/L	0414	WL	12/03/2002	0001	10.60 - 10.60	0.0785	B	FQ	#	0.0025	-
	mg/L	0430	WL	12/04/2002	0001	96.50 - 96.50	0.0263	B	F	#	0.0025	-
	mg/L	0430	WL	12/04/2002	0001	105.50 - 105.50	0.0447	B	F	#	0.0025	-
	mg/L	0430	WL	12/04/2002	0002	96.50 - 96.50	0.0255	B	F	#	0.0025	-
	mg/L	0431	WL	12/06/2002	0001	93.50 - 93.50	0.116	E	JFQ	#	0.0025	-
	mg/L	0432	WL	12/05/2002	0001	55.00 - 55.00	0.0179	B	F	#	0.0025	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Lithium	mg/L	0433	WL	12/05/2002	0001	99.00 - 99.00	0.0222	B	F	#	0.0025	-
	mg/L	0434	WL	12/05/2002	0001	80.00 - 80.00	0.222		F	#	0.0025	-
	mg/L	0435	WL	12/04/2002	0001	176.00 - 176.00	0.383		F	#	0.0025	-
	mg/L	0436	WL	12/04/2002	0001	200.00 - 200.00	0.306		F	#	0.0025	-
	mg/L	0437	WL	12/10/2002	0001	98.00 - 98.00	0.0938	BE	JF	#	0.0025	-
	mg/L	0438	WL	12/10/2002	0001	120.00 - 120.00	0.190	E	JF	#	0.0025	-
	mg/L	0439	WL	12/09/2002	0001	120.00 - 120.00	0.407	E	JF	#	0.0025	-
	mg/L	0440	WL	12/06/2002	0001	119.50 - 119.50	0.136	E	JFQ	#	0.0025	-
	mg/L	0442	WL	12/09/2002	0001	67.50 - 67.50	0.884	E	JF	#	0.0025	-
	mg/L	0443	WL	12/06/2002	0001	75.00 - 75.00	0.0432	BE	JF	#	0.0025	-
	mg/L	0444	WL	12/04/2002	0001	118.00 - 118.00	0.432		F	#	0.0025	-
	mg/L	0455	WL	12/05/2002	0001	46.00 - 46.00	0.0222	B	FQ	#	0.0025	-
	mg/L	0455	WL	12/05/2002	N002	46.00 - 46.00	0.0244	BE	JFQ	#	0.00278	-
	mg/L	0456	WL	12/05/2002	0001	52.50 - 52.50	0.0457	B	F	#	0.0025	-
	mg/L	0456	WL	12/05/2002	N002	52.50 - 52.50	0.0489	BE	JF	#	0.00278	-
	mg/L	0457	WL	12/04/2002	0001	31.50 - 31.50	0.0334	BE	JF	#	0.0025	-
	mg/L	0457	WL	12/04/2002	N002	31.50 - 31.50	0.0334	BE	JF	#	0.00278	-
	mg/L	0537	BH	12/10/2002	0001	0.00 - 0.00	5.980	E	J	#	0.0025	-
	mg/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	0.0726	B	F	#	0.0025	-
	mg/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	0.0816	B	F	#	0.0025	-
	mg/L	AMM-1	WL	12/03/2002	0002	20.00 - 20.00	0.0826	B	F	#	0.0025	-
	mg/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	0.238	E	JF	#	0.0025	-
	mg/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	0.252	E	JF	#	0.00278	-
	mg/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	0.253	E	JF	#	0.0025	-
	mg/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	0.248	E	JF	#	0.00278	-
	mg/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	0.105	E	JF	#	0.0025	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Lithium	mg/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	0.120	E	JF	#	0.0025	-
	mg/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	0.845	E	JF	#	0.0025	-
	mg/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	0.839	E	JF	#	0.0025	-
	mg/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	0.864	E	JF	#	0.00278	-
	mg/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	0.0418	B	F	#	0.0025	-
	mg/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	0.489		F	#	0.0025	-
	mg/L	SMI-PZ3M	WL	12/04/2002	0001	60.60 - 60.60	0.0466	B	F	#	0.0025	-
	mg/L	SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	0.055	B	F	#	0.0025	-
	mg/L	W1-7	WL	12/11/2002	0001	36.00 - 36.00	0.335	E	JF	#	0.0025	-
Manganese	mg/L	0412	WL	12/03/2002	0001	13.30 - 13.30	0.0605		F	#	0.0005	-
	mg/L	0414	WL	12/03/2002	0001	10.60 - 10.60	0.063		FQ	#	0.0005	-
	mg/L	0430	WL	12/04/2002	0001	96.50 - 96.50	0.296		F	#	0.0005	-
	mg/L	0430	WL	12/04/2002	0001	105.50 - 105.50	1.040		F	#	0.0005	-
	mg/L	0430	WL	12/04/2002	0002	96.50 - 96.50	0.368		F	#	0.0005	-
	mg/L	0431	WL	12/06/2002	0001	93.50 - 93.50	0.961		FQ	#	0.0005	-
	mg/L	0432	WL	12/05/2002	0001	55.00 - 55.00	0.0017	B	F	#	0.0005	-
	mg/L	0433	WL	12/05/2002	0001	99.00 - 99.00	0.0123	B	F	#	0.0005	-
	mg/L	0434	WL	12/05/2002	0001	80.00 - 80.00	2.890		F	#	0.0005	-
	mg/L	0435	WL	12/04/2002	0001	176.00 - 176.00	1.120		F	#	0.0005	-
	mg/L	0436	WL	12/04/2002	0001	200.00 - 200.00	3.900		F	#	0.0005	-
	mg/L	0437	WL	12/10/2002	0001	98.00 - 98.00	1.160		F	#	0.0005	-
	mg/L	0438	WL	12/10/2002	0001	120.00 - 120.00	3.150		F	#	0.0005	-
	mg/L	0439	WL	12/09/2002	0001	120.00 - 120.00	2.770		F	#	0.0005	-
	mg/L	0440	WL	12/06/2002	0001	119.50 - 119.50	1.280		FQ	#	0.0005	-
	mg/L	0442	WL	12/09/2002	0001	67.50 - 67.50	1.920		F	#	0.0005	-
	mg/L	0443	WL	12/06/2002	0001	75.00 - 75.00	0.0375	B	F	#	0.0005	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Manganese	mg/L	0444	WL	12/04/2002	0001	118.00 - 118.00	1.910	F	#	0.0005	-	
	mg/L	0455	WL	12/05/2002	0001	46.00 - 46.00	0.079	FQ	#	0.0005	-	
	mg/L	0455	WL	12/05/2002	N002	46.00 - 46.00	0.0827	E	JFQ	#	0.00056	-
	mg/L	0456	WL	12/05/2002	0001	52.50 - 52.50	0.0157	B	F	#	0.0005	-
	mg/L	0456	WL	12/05/2002	N002	52.50 - 52.50	0.0413	BE	JF	#	0.00056	-
	mg/L	0457	WL	12/04/2002	0001	31.50 - 31.50	0.548	F	#	0.0005	-	
	mg/L	0457	WL	12/04/2002	N002	31.50 - 31.50	0.561	E	JF	#	0.00056	-
	mg/L	0537	BH	12/10/2002	0001	0.00 - 0.00	202.000			#	0.002	-
	mg/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	0.0005	U	F	#	0.0005	-
	mg/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	0.0005	U	F	#	0.0005	-
	mg/L	AMM-1	WL	12/03/2002	0002	20.00 - 20.00	0.00056	U	F	#	0.0005	-
	mg/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	0.158	F	#	0.0005	-	
	mg/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	0.180	E	JF	#	0.00056	-
	mg/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	0.202	F	#	0.0005	-	
	mg/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	0.231	E	JF	#	0.00056	-
	mg/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	2.910	F	#	0.0005	-	
	mg/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	0.369	F	#	0.0005	-	
	mg/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	6.610	F	#	0.0005	-	
	mg/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	6.570	F	#	0.0005	-	
	mg/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	6.740	E	JF	#	0.00056	-
	mg/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	0.0005	U	F	#	0.0005	-
	mg/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	5.140	F	#	0.0005	-	
	mg/L	SMI-PZ3M	WL	12/04/2002	0001	60.60 - 60.60	1.460	F	#	0.0005	-	
	mg/L	SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	0.0259	B	F	#	0.0005	-
	mg/L	W1-7	WL	12/11/2002	0001	36.00 - 36.00	19.100	F	#	0.0005	-	
Molybdenum	mg/L	0412	WL	12/03/2002	0001	13.30 - 13.30	0.687	F	#	0.009	-	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION	LOCATION	SAMPLE:	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			UN- CERTAINTY	
		ID	TYPE	DATE				LAB	DATA	QA		
Molybdenum	mg/L	0414	WL	12/03/2002	0001	10.60 - 10.60	0.805	FQ	#	0.009	-	
	mg/L	0430	WL	12/04/2002	0001	105.50 - 105.50	0.009	U	F	#	0.009	-
	mg/L	0430	WL	12/04/2002	0001	96.50 - 96.50	0.010	B	F	#	0.009	-
	mg/L	0430	WL	12/04/2002	0002	96.50 - 96.50	0.009	U	F	#	0.009	-
	mg/L	0431	WL	12/06/2002	0001	93.50 - 93.50	0.009	U	FQ	#	0.009	-
	mg/L	0432	WL	12/05/2002	0001	55.00 - 55.00	0.009	U	F	#	0.009	-
	mg/L	0433	WL	12/05/2002	0001	99.00 - 99.00	0.009	U	F	#	0.009	-
	mg/L	0434	WL	12/05/2002	0001	80.00 - 80.00	0.009	U	F	#	0.009	-
	mg/L	0435	WL	12/04/2002	0001	176.00 - 176.00	0.009	U	F	#	0.009	-
	mg/L	0436	WL	12/04/2002	0001	200.00 - 200.00	0.009	U	F	#	0.009	-
	mg/L	0437	WL	12/10/2002	0001	98.00 - 98.00	7.150	F	F	#	0.009	-
	mg/L	0438	WL	12/10/2002	0001	120.00 - 120.00	0.190	F	F	#	0.009	-
	mg/L	0439	WL	12/09/2002	0001	120.00 - 120.00	0.0744	F	F	#	0.009	-
	mg/L	0440	WL	12/06/2002	0001	119.50 - 119.50	0.0351	B	FQ	#	0.009	-
	mg/L	0442	WL	12/09/2002	0001	67.50 - 67.50	2.260	F	F	#	0.009	-
	mg/L	0443	WL	12/06/2002	0001	75.00 - 75.00	0.009	U	F	#	0.009	-
	mg/L	0444	WL	12/04/2002	0001	118.00 - 118.00	0.009	U	F	#	0.009	-
	mg/L	0455	WL	12/05/2002	0001	46.00 - 46.00	0.0113	B	FQ	#	0.009	-
	mg/L	0455	WL	12/05/2002	N002	46.00 - 46.00	0.0166	B	FQ	#	0.01	-
	mg/L	0456	WL	12/05/2002	0001	52.50 - 52.50	0.009	U	F	#	0.009	-
	mg/L	0456	WL	12/05/2002	N002	52.50 - 52.50	0.0144	B	F	#	0.01	-
	mg/L	0457	WL	12/04/2002	0001	31.50 - 31.50	0.010	B	F	#	0.009	-
	mg/L	0457	WL	12/04/2002	N002	31.50 - 31.50	0.010	U	F	#	0.01	-
	mg/L	0537	BH	12/10/2002	0001	0.00 - 0.00	1.000			#	0.009	-
	mg/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	0.009	U	F	#	0.009	-
	mg/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	0.010	B	F	#	0.009	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Molybdenum	mg/L	AMM-1	WL	12/03/2002	0002	20.00 - 20.00	0.009	U	F	#	0.009	-
	mg/L	AMM-2	WL	12/05/2002	0001	50.00 - 50.00	1.230		F	#	0.009	-
	mg/L	AMM-2	WL	12/05/2002	0001	15.00 - 15.00	0.877		F	#	0.009	-
	mg/L	AMM-3	WL	12/05/2002	0001	50.00 - 50.00	0.484		F	#	0.009	-
	mg/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	0.009	U	F	#	0.009	-
	mg/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	0.010	U	F	#	0.01	-
	mg/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	0.009	U	F	#	0.009	-
	mg/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	0.010	U	F	#	0.01	-
	mg/L	ATP-1-S	WL	12/09/2002	0001	140.00 - 140.00	0.009	U	F	#	0.009	-
	mg/L	ATP-2-D	WL	12/05/2002	0001	91.00 - 91.00	0.0145	B	F	#	0.009	-
	mg/L	ATP-2-S	WL	12/05/2002	0001	38.00 - 38.00	0.760		F	#	0.009	-
	mg/L	ATP-3	WL	12/06/2002	0001	52.60 - 52.60	0.009	U	F	#	0.009	-
	mg/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	0.009	U	F	#	0.009	-
	mg/L	MW-1-R	WL	12/05/2002	0001	14.00 - 14.00	8.430		F	#	0.009	-
	mg/L	MW-3	WL	12/05/2002	0001	54.00 - 54.00	1.220		F	#	0.009	-
	mg/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	0.009	U	F	#	0.009	-
	mg/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	0.689		F	#	0.009	-
	mg/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	0.696		F	#	0.009	-
	mg/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	0.713		F	#	0.01	-
	mg/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	0.009	U	F	#	0.009	-
	mg/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	0.412		F	#	0.009	-
	mg/L	SMI-PZ3M	WL	12/04/2002	0001	60.60 - 60.60	0.0679		F	#	0.009	-
	mg/L	SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	0.248		F	#	0.009	-
	mg/L	TP-01	WL	12/03/2002	0001	23.80 - 23.80	0.0179	B	F	#	0.009	-
	mg/L	TP-02	WL	12/03/2002	0001	31.60 - 31.60	0.452		F	#	0.009	-
	mg/L	TP-07	WL	12/05/2002	0001	28.60 - 28.60	0.279		F	#	0.009	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Molybdenum	mg/L	TP-11	WL	12/03/2002	0001	31.40 - 31.40	0.0119	B	F	#	0.009	-
	mg/L	TP-17	WL	12/03/2002	0001	28.00 - 28.00	0.009	U	F	#	0.009	-
	mg/L	TP-18	WL	12/04/2002	0001	20.90 - 20.90	0.009	U	F	#	0.009	-
	mg/L	TP-19	WL	12/04/2002	0001	29.00 - 29.00	0.009	U	F	#	0.009	-
	mg/L	TP-20	WL	12/04/2002	0001	35.00 - 35.00	0.009	U	F	#	0.009	-
	mg/L	W1-7	WL	12/11/2002	0001	36.00 - 36.00	0.009	U	F	#	0.009	-
Nitrate as NO <sub>3</sub>	mg/L	0412	WL	12/03/2002	0001	13.30 - 13.30	192.000		FJ	#	0.04	-
	mg/L	0414	WL	12/03/2002	0001	10.60 - 10.60	346.000		FJQ	#	0.1	-
	mg/L	0430	WL	12/04/2002	0001	105.50 - 105.50	0.020	U	F	#	0.02	-
	mg/L	0430	WL	12/04/2002	0001	96.50 - 96.50	3.370		F	#	0.02	-
	mg/L	0430	WL	12/04/2002	0002	96.50 - 96.50	4.060		F	#	0.02	-
	mg/L	0432	WL	12/05/2002	0001	55.00 - 55.00	1.070		F	#	0.02	-
	mg/L	0433	WL	12/05/2002	0001	99.00 - 99.00	0.901	B	F	#	0.02	-
	mg/L	0434	WL	12/05/2002	0001	80.00 - 80.00	0.020	U	F	#	0.02	-
	mg/L	0437	WL	12/10/2002	0001	98.00 - 98.00	54.300		F	#	0.02	-
	mg/L	0438	WL	12/10/2002	0001	120.00 - 120.00	1.620		F	#	0.02	-
	mg/L	0439	WL	12/09/2002	0001	120.00 - 120.00	137.000		F	#	0.04	-
	mg/L	0440	WL	12/06/2002	0001	119.50 - 119.50	33.300		FJQ	#	0.02	-
	mg/L	0442	WL	12/09/2002	0001	67.50 - 67.50	1800.000		FJ	#	0.4	-
	mg/L	0443	WL	12/06/2002	0001	75.00 - 75.00	15.500		FJ	#	0.02	-
	mg/L	0455	WL	12/05/2002	0001	46.00 - 46.00	0.377	B	FQ	#	0.02	-
	mg/L	0455	WL	12/05/2002	N002	46.00 - 46.00	0.398	B	FQ	#	0.02	-
	mg/L	0456	WL	12/05/2002	0001	52.50 - 52.50	5.760		F	#	0.02	-
	mg/L	0456	WL	12/05/2002	N002	52.50 - 52.50	5.660		F	#	0.02	-
	mg/L	0537	BH	12/10/2002	0001	0.00 - 0.00	6710.000			#	2	-
	mg/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	6.300		FJ	#	0.02	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Nitrate as NO <sub>3</sub>	mg/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	0.020	U	F	#	0.02	-
	mg/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	0.075	B	F	#	0.02	-
	mg/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	45.700	FJ	#	0.02	-	-
	mg/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	51.100	FJ	#	0.02	-	-
	mg/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	52.100	FJ	#	0.02	-	-
	mg/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	15.900	F	#	0.02	-	-
	mg/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	142.000	FJ	#	0.04	-	-
	mg/L	SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	61.600	FJ	#	0.02	-	-
	mg/L	W1-7	WL	12/11/2002	0001	36.00 - 36.00	0.0379	B	F	#	0.02	-
Oxidation Reduction Potent	mV	0412	WL	12/03/2002	N001	13.30 - 13.30	191	F	#	-	-	-
	mV	0414	WL	12/03/2002	N001	10.60 - 10.60	199	FQ	#	-	-	-
	mV	0430	WL	12/04/2002	N001	96.50 - 96.50	35.3	F	#	-	-	-
	mV	0431	WL	12/06/2002	N001	93.50 - 93.50	119	FQ	#	-	-	-
	mV	0432	WL	12/05/2002	N001	55.00 - 55.00	129	F	#	-	-	-
	mV	0433	WL	12/05/2002	N001	99.00 - 99.00	59.5	F	#	-	-	-
	mV	0434	WL	12/05/2002	N001	80.00 - 80.00	-118	F	#	-	-	-
	mV	0435	WL	12/04/2002	N001	176.00 - 176.00	-300	F	#	-	-	-
	mV	0436	WL	12/04/2002	N001	200.00 - 200.00	-334	F	#	-	-	-
	mV	0437	WL	12/10/2002	N001	98.00 - 98.00	164	F	#	-	-	-
	mV	0438	WL	12/10/2002	N001	120.00 - 120.00	-72	F	#	-	-	-
	mV	0439	WL	12/09/2002	N001	120.00 - 120.00	95	F	#	-	-	-
	mV	0440	WL	12/06/2002	N001	119.50 - 119.50	165	FQ	#	-	-	-
	mV	0442	WL	12/09/2002	N001	67.50 - 67.50	232	F	#	-	-	-
	mV	0443	WL	12/06/2002	N001	75.00 - 75.00	1.29	F	#	-	-	-
	mV	0444	WL	12/04/2002	N001	118.00 - 118.00	-443	F	#	-	-	-
	mV	0455	WL	12/05/2002	N001	46.00 - 46.00	-96	FQ	#	-	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
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PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Oxidation Reduction Potent	mV	0456	WL	12/05/2002	N001	52.50 - 52.50	107	F	#	-	-	-
	mV	0457	WL	12/04/2002	N001	31.50 - 31.50	-320	F	#	-	-	-
	mV	0457	WL	12/04/2002	N002	31.50 - 31.50	-320	F	#	-	-	-
	mV	AMM-1	WL	12/03/2002	N001	55.00 - 55.00	234	F	#	-	-	-
	mV	AMM-1	WL	12/03/2002	N001	20.00 - 20.00	242	F	#	-	-	-
	mV	AMM-2	WL	12/05/2002	N001	50.00 - 50.00	2.1	F	#	-	-	-
	mV	AMM-2	WL	12/05/2002	N001	15.00 - 15.00	27.5	F	#	-	-	-
	mV	AMM-3	WL	12/05/2002	N001	50.00 - 50.00	-98.2	F	#	-	-	-
	mV	ATP-1-D	WL	12/10/2002	N001	399.00 - 399.00	-313	F	#	-	-	-
	mV	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	-313	F	#	-	-	-
	mV	ATP-1-ID	WL	12/10/2002	N001	310.00 - 310.00	-283	F	#	-	-	-
	mV	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	-283	F	#	-	-	-
	mV	ATP-1-S	WL	12/09/2002	N001	140.00 - 140.00	-71.6	F	#	-	-	-
	mV	ATP-2-D	WL	12/05/2002	N001	91.00 - 91.00	-237	F	#	-	-	-
	mV	ATP-2-S	WL	12/05/2002	N001	38.00 - 38.00	-60.2	F	#	-	-	-
	mV	ATP-3	WL	12/06/2002	N001	52.60 - 52.60	172	F	#	-	-	-
	mV	M11-14.0	WL	12/11/2002	N001	45.90 - 45.90	-103	F	#	-	-	-
	mV	MW-1-R	WL	12/05/2002	N001	14.00 - 14.00	101	F	#	-	-	-
	mV	MW-3	WL	12/05/2002	N001	54.00 - 54.00	104	F	#	-	-	-
	mV	N7-10	WL	12/11/2002	N001	32.80 - 32.80	-121	F	#	-	-	-
	mV	OW-2	WL	12/05/2002	N001	31.40 - 31.40	-49.2	F	#	-	-	-
	mV	OW-2	WL	12/05/2002	N002	31.40 - 31.40	-49.2	F	#	-	-	-
	mV	RW-01	WL	12/04/2002	N001	75.00 - 75.00	619	F	#	-	-	-
	mV	SMI-PZ3D2	WL	12/04/2002	N001	80.00 - 80.00	238	F	#	-	-	-
	mV	SMI-PZ3M	WL	12/04/2002	N001	60.60 - 60.60	136	F	#	-	-	-
	mV	SMI-PZ3S	WL	12/04/2002	N001	27.30 - 27.30	147	F	#	-	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
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PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Oxidation Reduction Potent	mV	TP-01	WL	12/03/2002	N001	23.80 - 23.80	214	F	#	-	-	-
	mV	TP-02	WL	12/03/2002	N001	31.60 - 31.60	179	F	#	-	-	-
	mV	TP-07	WL	12/05/2002	N001	28.60 - 28.60	5.3	F	#	-	-	-
	mV	TP-11	WL	12/03/2002	N001	31.40 - 31.40	-4.7	F	#	-	-	-
	mV	TP-17	WL	12/03/2002	N001	28.00 - 28.00	-103	F	#	-	-	-
	mV	TP-18	WL	12/04/2002	N001	20.90 - 20.90	-157	F	#	-	-	-
	mV	TP-19	WL	12/04/2002	N001	29.00 - 29.00	-309	F	#	-	-	-
	mV	TP-20	WL	12/04/2002	N001	35.00 - 35.00	-163	F	#	-	-	-
	mV	W1-7	WL	12/11/2002	N001	36.00 - 36.00	-89	F	#	-	-	-
pH	s.u.	0412	WL	12/03/2002	N001	13.30 - 13.30	7.15	F	#	-	-	-
	s.u.	0414	WL	12/03/2002	N001	10.60 - 10.60	7.66	FQ	#	-	-	-
	s.u.	0430	WL	12/04/2002	N001	96.50 - 96.50	7.29	F	#	-	-	-
	s.u.	0431	WL	12/06/2002	N001	93.50 - 93.50	7.15	FQ	#	-	-	-
	s.u.	0432	WL	12/05/2002	N001	55.00 - 55.00	7.5	F	#	-	-	-
	s.u.	0433	WL	12/05/2002	N001	99.00 - 99.00	7.56	F	#	-	-	-
	s.u.	0434	WL	12/05/2002	N001	80.00 - 80.00	7.21	F	#	-	-	-
	s.u.	0435	WL	12/04/2002	N001	176.00 - 176.00	7	F	#	-	-	-
	s.u.	0436	WL	12/04/2002	N001	200.00 - 200.00	7.2	F	#	-	-	-
	s.u.	0437	WL	12/10/2002	N001	98.00 - 98.00	7.58	F	#	-	-	-
	s.u.	0438	WL	12/10/2002	N001	120.00 - 120.00	6.93	F	#	-	-	-
	s.u.	0439	WL	12/09/2002	N001	120.00 - 120.00	6.77	F	#	-	-	-
	s.u.	0440	WL	12/06/2002	N001	119.50 - 119.50	7.51	FQ	#	-	-	-
	s.u.	0442	WL	12/09/2002	N001	67.50 - 67.50	7.43	F	#	-	-	-
	s.u.	0443	WL	12/06/2002	N001	75.00 - 75.00	7.28	F	#	-	-	-
	s.u.	0444	WL	12/04/2002	N001	118.00 - 118.00	7.09	F	#	-	-	-
	s.u.	0455	WL	12/05/2002	N001	46.00 - 46.00	7.64	FQ	#	-	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
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PARAMETER	UNITS	LOCATION	LOCATION	SAMPLE:	DEPTH RANGE	RESULT	QUALIFIERS:			DETECTION	UN-
		ID	TYPE	DATE			LAB	DATA	QA		
pH	s.u.	0456	WL	12/05/2002	N001	52.50 - 52.50	7.73	F	#	-	-
	s.u.	0457	WL	12/04/2002	N001	31.50 - 31.50	7.84	F	#	-	-
	s.u.	0457	WL	12/04/2002	N002	31.50 - 31.50	7.84	F	#	-	-
	s.u.	AMM-1	WL	12/03/2002	N001	55.00 - 55.00	7.19	F	#	-	-
	s.u.	AMM-1	WL	12/03/2002	N001	20.00 - 20.00	7.91	F	#	-	-
	s.u.	AMM-2	WL	12/05/2002	N001	50.00 - 50.00	6.91	F	#	-	-
	s.u.	AMM-2	WL	12/05/2002	N001	15.00 - 15.00	6.75	F	#	-	-
	s.u.	AMM-3	WL	12/05/2002	N001	50.00 - 50.00	6.95	F	#	-	-
	s.u.	ATP-1-D	WL	12/10/2002	N001	399.00 - 399.00	7.89	F	#	-	-
	s.u.	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	7.89	F	#	-	-
	s.u.	ATP-1-ID	WL	12/10/2002	N001	310.00 - 310.00	7.62	F	#	-	-
	s.u.	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	7.62	F	#	-	-
	s.u.	ATP-1-S	WL	12/09/2002	N001	140.00 - 140.00	7.59	F	#	-	-
	s.u.	ATP-2-D	WL	12/05/2002	N001	91.00 - 91.00	7.52	F	#	-	-
	s.u.	ATP-2-S	WL	12/05/2002	N001	38.00 - 38.00	7.06	F	#	-	-
	s.u.	ATP-3	WL	12/06/2002	N001	52.60 - 52.60	7.57	F	#	-	-
	s.u.	M11-14.0	WL	12/11/2002	N001	45.90 - 45.90	7.04	F	#	-	-
	s.u.	MW-1-R	WL	12/05/2002	N001	14.00 - 14.00	6.94	F	#	-	-
	s.u.	MW-3	WL	12/05/2002	N001	54.00 - 54.00	6.91	F	#	-	-
	s.u.	N7-10	WL	12/11/2002	N001	32.80 - 32.80	7.18	F	#	-	-
	s.u.	OW-2	WL	12/05/2002	N001	31.40 - 31.40	6.87	F	#	-	-
	s.u.	OW-2	WL	12/05/2002	N002	31.40 - 31.40	6.87	F	#	-	-
	s.u.	RW-01	WL	12/04/2002	N001	75.00 - 75.00	7.69	F	#	-	-
	s.u.	SMI-PZ3D2	WL	12/04/2002	N001	80.00 - 80.00	6.93	F	#	-	-
	s.u.	SMI-PZ3M	WL	12/04/2002	N001	60.60 - 60.60	7.43	F	#	-	-
	s.u.	SMI-PZ3S	WL	12/04/2002	N001	27.30 - 27.30	8.03	F	#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
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PARAMETER	UNITS	LOCATION	LOCATION	SAMPLE:	DEPTH RANGE	RESULT	QUALIFIERS:			DETECTION	UN-	
		ID	TYPE	DATE			LAB	DATA	QA			
pH	s.u.	TP-01	WL	12/03/2002	N001	23.80 - 23.80	7.33	F	#	-	-	
	s.u.	TP-02	WL	12/03/2002	N001	31.60 - 31.60	6.93	F	#	-	-	
	s.u.	TP-07	WL	12/05/2002	N001	28.60 - 28.60	6.96	F	#	-	-	
	s.u.	TP-11	WL	12/03/2002	N001	31.40 - 31.40	7.12	F	#	-	-	
	s.u.	TP-17	WL	12/03/2002	N001	28.00 - 28.00	7.1	F	#	-	-	
	s.u.	TP-18	WL	12/04/2002	N001	20.90 - 20.90	6.93	F	#	-	-	
	s.u.	TP-19	WL	12/04/2002	N001	29.00 - 29.00	6.59	F	#	-	-	
	s.u.	TP-20	WL	12/04/2002	N001	35.00 - 35.00	7.03	F	#	-	-	
	s.u.	W1-7	WL	12/11/2002	N001	36.00 - 36.00	6.64	F	#	-	-	
Radium-226	pCi/L	0412	WL	12/03/2002	0001	13.30 - 13.30	0.1	U	F	#	0.1	± 0.06
	pCi/L	0414	WL	12/03/2002	0001	10.60 - 10.60	0.12	FQ	#	0.11	± 0.07	
	pCi/L	0430	WL	12/04/2002	0001	96.50 - 96.50	0.23	F	#	0.11	± 0.08	
	pCi/L	0430	WL	12/04/2002	0001	105.50 - 105.50	0.68	F	#	0.15	± 0.12	
	pCi/L	0430	WL	12/04/2002	0002	96.50 - 96.50	0.23	F	#	0.12	± 0.08	
	pCi/L	0431	WL	12/06/2002	0001	93.50 - 93.50	0.93	FQ	#	0.16	± 0.15	
	pCi/L	0432	WL	12/05/2002	0001	55.00 - 55.00	0.14	F	#	0.12	± 0.07	
	pCi/L	0433	WL	12/05/2002	0001	99.00 - 99.00	0.1	U	F	#	0.1	± 0.06
	pCi/L	0434	WL	12/05/2002	0001	80.00 - 80.00	3.11	F	#	0.16	± 0.26	
	pCi/L	0435	WL	12/04/2002	0001	176.00 - 176.00	6.81	F	#	0.17	± 0.55	
	pCi/L	0436	WL	12/04/2002	0001	200.00 - 200.00	0.57	F	#	0.32	± 0.21	
	pCi/L	0437	WL	12/10/2002	0001	98.00 - 98.00	0.96	F	#	0.13	± 0.15	
	pCi/L	0438	WL	12/10/2002	0001	120.00 - 120.00	2.26	F	#	0.16	± 0.25	
	pCi/L	0439	WL	12/09/2002	0001	120.00 - 120.00	0.19	U	F	#	0.19	± 0.10
	pCi/L	0440	WL	12/06/2002	0001	119.50 - 119.50	0.23	FQ	#	0.13	± 0.09	
	pCi/L	0442	WL	12/09/2002	0001	67.50 - 67.50	1.32	F	#	0.17	± 0.20	
	pCi/L	0443	WL	12/06/2002	0001	75.00 - 75.00	0.12	U	F	#	0.12	± 0.07

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
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PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Radium-226	pCi/L	0444	WL	12/04/2002	0001	118.00 - 118.00	1.8	F	#	0.22	± 0.23	
	pCi/L	0455	WL	12/05/2002	0001	46.00 - 46.00	0.2	FQ	#	0.11	± 0.08	
	pCi/L	0455	WL	12/05/2002	N002	46.00 - 46.00	0.21	FQ	#	0.11	± 0.08	
	pCi/L	0456	WL	12/05/2002	0001	52.50 - 52.50	0.12	U	F	#	0.12	± 0.07
	pCi/L	0456	WL	12/05/2002	N002	52.50 - 52.50	0.21	F	#	0.12	± 0.08	
	pCi/L	0457	WL	12/04/2002	0001	31.50 - 31.50	0.14	U	F	#	0.14	± 0.09
	pCi/L	0457	WL	12/04/2002	N002	31.50 - 31.50	0.15	U	F	#	0.15	± 0.08
	pCi/L	0537	BH	12/10/2002	0001	0.00 - 0.00	93.5			#	0.45	± 6.24
	pCi/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	0.11	U	F	#	0.11	± 0.06
	pCi/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	0.11	U	F	#	0.11	± 0.07
	pCi/L	AMM-1	WL	12/03/2002	0002	20.00 - 20.00	0.11	U	F	#	0.11	± 0.07
	pCi/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	0.43	U	F	#	0.43	± 0.25
	pCi/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	0.41	U	F	#	0.41	± 0.24
	pCi/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	1.5	F	#	0.28	± 0.22	
	pCi/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	1.25	F	#	0.33	± 0.24	
	pCi/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	0.32	U	F	#	0.32	± 0.17
	pCi/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	9.26	F	#	0.23	± 0.72	
	pCi/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	0.16	U	F	#	0.16	± 0.09
	pCi/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	0.16	U	F	#	0.16	± 0.08
	pCi/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	0.15	U	F	#	0.15	± 0.09
	pCi/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	0.11	U	F	#	0.11	± 0.06
	pCi/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	0.15	U	F	#	0.15	± 0.09
	pCi/L	SMI-PZ3M	WL	12/04/2002	0001	60.60 - 60.60	0.13	U	F	#	0.13	± 0.08
	pCi/L	SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	0.14	U	F	#	0.14	± 0.08
	pCi/L	W1-7	WL	12/11/2002	0001	36.00 - 36.00	0.29	U	F	#	0.29	± 0.15
Radium-228	pCi/L	0412	WL	12/03/2002	0001	13.30 - 13.30	0.74	U	F	#	0.74	± 0.43

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
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PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Radium-228	pCi/L	0414	WL	12/03/2002	0001	10.60 - 10.60	0.81	U	FQ	#	0.81	± 0.47
	pCi/L	0430	WL	12/04/2002	0001	105.50 - 105.50	1.33		F	#	0.74	± 0.46
	pCi/L	0430	WL	12/04/2002	0001	96.50 - 96.50	0.74	U	F	#	0.74	± 0.44
	pCi/L	0430	WL	12/04/2002	0002	96.50 - 96.50	0.75	U	F	#	0.75	± 0.45
	pCi/L	0431	WL	12/06/2002	0001	93.50 - 93.50	1.99		FQ	#	0.86	± 0.55
	pCi/L	0432	WL	12/05/2002	0001	55.00 - 55.00	0.71	U	F	#	0.71	± 0.42
	pCi/L	0433	WL	12/05/2002	0001	99.00 - 99.00	0.69	U	F	#	0.69	± 0.41
	pCi/L	0434	WL	12/05/2002	0001	80.00 - 80.00	2.07		F	#	0.7	± 0.45
	pCi/L	0435	WL	12/04/2002	0001	176.00 - 176.00	2.06		F	#	0.92	± 0.58
	pCi/L	0436	WL	12/04/2002	0001	200.00 - 200.00	11.09		F	#	0.96	± 0.86
	pCi/L	0437	WL	12/10/2002	0001	98.00 - 98.00	0.75	U	F	#	0.75	± 0.44
	pCi/L	0438	WL	12/10/2002	0001	120.00 - 120.00	0.82	U	F	#	0.82	± 0.49
	pCi/L	0439	WL	12/09/2002	0001	120.00 - 120.00	1.38		F	#	0.75	± 0.47
	pCi/L	0440	WL	12/06/2002	0001	119.50 - 119.50	0.85	U	FQ	#	0.85	± 0.51
	pCi/L	0442	WL	12/09/2002	0001	67.50 - 67.50	0.87	U	F	#	0.87	± 0.52
	pCi/L	0443	WL	12/06/2002	0001	75.00 - 75.00	0.84	U	F	#	0.84	± 0.50
	pCi/L	0444	WL	12/04/2002	0001	118.00 - 118.00	5.54		F	#	0.83	± 0.62
	pCi/L	0455	WL	12/05/2002	0001	46.00 - 46.00	0.75	U	FQ	#	0.75	± 0.44
	pCi/L	0455	WL	12/05/2002	N002	46.00 - 46.00	0.77	U	FQ	#	0.77	± 0.45
	pCi/L	0456	WL	12/05/2002	0001	52.50 - 52.50	0.7	U	F	#	0.7	± 0.42
	pCi/L	0456	WL	12/05/2002	N002	52.50 - 52.50	0.74	U	F	#	0.74	± 0.44
	pCi/L	0457	WL	12/04/2002	0001	31.50 - 31.50	0.97	U	F	#	0.97	± 0.58
	pCi/L	0457	WL	12/04/2002	N002	31.50 - 31.50	0.94	U	F	#	0.94	± 0.56
	pCi/L	0537	BH	12/10/2002	0001	0.00 - 0.00	11.19			#	1.03	± 0.87
	pCi/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	0.76	U	F	#	0.76	± 0.44
	pCi/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	0.78	U	F	#	0.78	± 0.46

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			UN-CERTAINTY	
								LAB	DATA	QA		
Radium-228	pCi/L	AMM-1	WL	12/03/2002	0002	20.00 - 20.00	0.76	U	F	#	0.76	± 0.45
	pCi/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	9.96		F	#	0.85	± 0.76
	pCi/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	9.64		F	#	0.79	± 0.72
	pCi/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	15.91		F	#	0.69	± 0.83
	pCi/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	16.74		F	#	0.85	± 0.98
	pCi/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	6.09		F	#	0.8	± 0.62
	pCi/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	2.6		F	#	0.84	± 0.55
	pCi/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	1.84		F	#	0.85	± 0.54
	pCi/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	1.81		F	#	0.84	± 0.53
	pCi/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	1.9		F	#	0.8	± 0.51
	pCi/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	0.7	U	F	#	0.7	± 0.42
	pCi/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	2.29		F	#	0.74	± 0.48
Selenium	mg/L	0412	WL	12/03/2002	0001	13.30 - 13.30	0.0936		F	#	0.0005	-
	mg/L	0414	WL	12/03/2002	0001	10.60 - 10.60	0.167		FQ	#	0.001	-
	mg/L	0430	WL	12/04/2002	0001	96.50 - 96.50	0.0038	B	F	#	0.0001	-
	mg/L	0430	WL	12/04/2002	0001	105.50 - 105.50	0.00034	B	F	#	0.0001	-
	mg/L	0430	WL	12/04/2002	0002	96.50 - 96.50	0.0047	B	F	#	0.0001	-
	mg/L	0431	WL	12/06/2002	0001	93.50 - 93.50	0.0024	B	FQ	#	0.0001	-
	mg/L	0432	WL	12/05/2002	0001	55.00 - 55.00	0.0018	B	F	#	0.0001	-
	mg/L	0433	WL	12/05/2002	0001	99.00 - 99.00	0.0018	B	F	#	0.0001	-
	mg/L	0434	WL	12/05/2002	0001	80.00 - 80.00	0.0001	U	F	#	0.0001	-
	mg/L	0435	WL	12/04/2002	0001	176.00 - 176.00	0.0001	U	F	#	0.0001	-
	mg/L	0436	WL	12/04/2002	0001	200.00 - 200.00	0.0001	U	F	#	0.0001	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Selenium	mg/L	0437	WL	12/10/2002	0001	98.00 - 98.00	0.0771	F	#	0.001	-	
	mg/L	0438	WL	12/10/2002	0001	120.00 - 120.00	0.0011	B	F	#	0.0001	-
	mg/L	0439	WL	12/09/2002	0001	120.00 - 120.00	0.0014	B	F	#	0.0001	-
	mg/L	0440	WL	12/06/2002	0001	119.50 - 119.50	0.0525	FQ	#	0.0005	-	
	mg/L	0442	WL	12/09/2002	0001	67.50 - 67.50	0.169	F	#	0.001	-	
	mg/L	0443	WL	12/06/2002	0001	75.00 - 75.00	0.0117	F	#	0.0001	-	
	mg/L	0444	WL	12/04/2002	0001	118.00 - 118.00	0.0001	U	F	#	0.0001	-
	mg/L	0455	WL	12/05/2002	0001	46.00 - 46.00	0.0014	B	FQ	#	0.0001	-
	mg/L	0455	WL	12/05/2002	N002	46.00 - 46.00	0.0018	B	FQ	#	0.00011	-
	mg/L	0456	WL	12/05/2002	0001	52.50 - 52.50	0.0266	F	#	0.0002	-	
	mg/L	0456	WL	12/05/2002	N002	52.50 - 52.50	0.0292	F	#	0.00022	-	
	mg/L	0457	WL	12/04/2002	0001	31.50 - 31.50	0.0001	U	F	#	0.0001	-
	mg/L	0457	WL	12/04/2002	N002	31.50 - 31.50	0.00011	U	F	#	0.00011	-
	mg/L	0537	BH	12/10/2002	0001	0.00 - 0.00	3.690		#	0.05	-	
	mg/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	0.0134	F	#	0.0001	-	
	mg/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	0.0136	F	#	0.0001	-	
	mg/L	AMM-1	WL	12/03/2002	0002	20.00 - 20.00	0.0131	F	#	0.0001	-	
	mg/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	0.0001	U	F	#	0.0001	-
	mg/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	0.00011	U	F	#	0.00011	-
	mg/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	0.0001	U	F	#	0.0001	-
	mg/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	0.00011	U	F	#	0.00011	-
	mg/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	0.0001	U	F	#	0.0001	-
	mg/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	0.0001	U	F	#	0.0001	-
	mg/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	0.0121	F	#	0.0001	-	
	mg/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	0.0127	F	#	0.0001	-	
	mg/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	0.0095	F	#	0.00011	-	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
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PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Selenium	mg/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	0.0091	F	#	0.0001	-	
	mg/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	0.005	B	F	#	0.0001	-
	mg/L	SMI-PZ3M	WL	12/04/2002	0001	60.60 - 60.60	0.00043	B	F	#	0.0001	-
	mg/L	SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	0.0527	F	#	0.0005	-	
	mg/L	W1-7	WL	12/11/2002	0001	36.00 - 36.00	0.009	F	#	0.0001	-	
Sodium	mg/L	0412	WL	12/03/2002	0001	13.30 - 13.30	848.000	F	#	0.026	-	
	mg/L	0414	WL	12/03/2002	0001	10.60 - 10.60	923.000	FQ	#	0.026	-	
	mg/L	0430	WL	12/04/2002	0001	96.50 - 96.50	253.000	F	#	0.026	-	
	mg/L	0430	WL	12/04/2002	0001	105.50 - 105.50	663.000	F	#	0.026	-	
	mg/L	0430	WL	12/04/2002	0002	96.50 - 96.50	211.000	F	#	0.026	-	
	mg/L	0431	WL	12/06/2002	0001	93.50 - 93.50	7410.000	FQ	#	0.26	-	
	mg/L	0432	WL	12/05/2002	0001	55.00 - 55.00	444.000	F	#	0.026	-	
	mg/L	0433	WL	12/05/2002	0001	99.00 - 99.00	746.000	F	#	0.026	-	
	mg/L	0434	WL	12/05/2002	0001	80.00 - 80.00	8910.000	F	#	0.26	-	
	mg/L	0435	WL	12/04/2002	0001	176.00 - 176.00	30700.000	F	#	1.04	-	
	mg/L	0436	WL	12/04/2002	0001	200.00 - 200.00	33600.000	F	#	1.04	-	
	mg/L	0437	WL	12/10/2002	0001	98.00 - 98.00	2300.000	F	#	0.104	-	
	mg/L	0438	WL	12/10/2002	0001	120.00 - 120.00	1170.000	F	#	0.104	-	
	mg/L	0439	WL	12/09/2002	0001	120.00 - 120.00	1220.000	F	#	0.104	-	
	mg/L	0440	WL	12/06/2002	0001	119.50 - 119.50	999.000	FQ	#	0.026	-	
	mg/L	0442	WL	12/09/2002	0001	67.50 - 67.50	4520.000	F	#	0.26	-	
	mg/L	0443	WL	12/06/2002	0001	75.00 - 75.00	708.000	F	#	0.026	-	
	mg/L	0444	WL	12/04/2002	0001	118.00 - 118.00	29900.000	F	#	1.04	-	
	mg/L	0455	WL	12/05/2002	0001	46.00 - 46.00	447.000	FQ	#	0.026	-	
	mg/L	0455	WL	12/05/2002	N002	46.00 - 46.00	434.000	FQ	#	0.02889	-	
	mg/L	0456	WL	12/05/2002	0001	52.50 - 52.50	1570.000	F	#	0.104	-	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
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PARAMETER	UNITS	LOCATION	LOCATION	SAMPLE:	DEPTH RANGE	RESULT	QUALIFIERS:	DETECTION	UN-		
		ID	TYPE	DATE			LAB	DATA	CERTAINTY		
Sodium	mg/L	0456	WL	12/05/2002	N002	52.50 - 52.50	1590.000	F	#	0.11556	-
	mg/L	0457	WL	12/04/2002	0001	31.50 - 31.50	1000.000	F	#	0.052	-
	mg/L	0457	WL	12/04/2002	N002	31.50 - 31.50	1020.000	F	#	0.02889	-
	mg/L	0537	BH	12/10/2002	0001	0.00 - 0.00	28000.000		#	1.04	-
	mg/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	1960.000	F	#	0.26	-
	mg/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	2020.000	F	#	0.26	-
	mg/L	AMM-1	WL	12/03/2002	0002	20.00 - 20.00	1970.000	F	#	0.26	-
	mg/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	36000.000	F	#	1.04	-
	mg/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	35800.000	F	#	1.15556	-
	mg/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	35800.000	F	#	1.04	-
	mg/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	33700.000	F	#	1.15556	-
	mg/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	16300.000	F	#	1.04	-
	mg/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	18000.000	F	#	1.04	-
	mg/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	2790.000	F	#	0.26	-
	mg/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	2790.000	F	#	0.26	-
	mg/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	2800.000	F	#	0.28889	-
	mg/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	140.000	F	#	0.026	-
	mg/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	3750.000	F	#	0.26	-
	mg/L	SMI-PZ3M	WL	12/04/2002	0001	60.60 - 60.60	1610.000	F	#	0.104	-
	mg/L	SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	934.000	F	#	0.026	-
	mg/L	W1-7	WL	12/11/2002	0001	36.00 - 36.00	12000.000	F	#	1.04	-
Specific Conductance	umhos/cm	0412	WL	12/03/2002	N001	13.30 - 13.30	5053	F	#	-	-
	umhos/cm	0414	WL	12/03/2002	N001	10.60 - 10.60	4250	FQ	#	-	-
	umhos/cm	0430	WL	12/04/2002	N001	96.50 - 96.50	5357	F	#	-	-
	umhos/cm	0431	WL	12/06/2002	N001	93.50 - 93.50	33973	FQ	#	-	-
	umhos/cm	0432	WL	12/05/2002	N001	55.00 - 55.00	2924	F	#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Specific Conductance	umhos/cm	0433	WL	12/05/2002	N001	99.00 - 99.00	4275	F	#	-	-	-
	umhos/cm	0434	WL	12/05/2002	N001	80.00 - 80.00	40040	F	#	-	-	-
	umhos/cm	0435	WL	12/04/2002	N001	176.00 - 176.00	118260	F	#	-	-	-
	umhos/cm	0436	WL	12/04/2002	N001	200.00 - 200.00	126160	F	#	-	-	-
	umhos/cm	0437	WL	12/10/2002	N001	98.00 - 98.00	10660	F	#	-	-	-
	umhos/cm	0438	WL	12/10/2002	N001	120.00 - 120.00	8095	F	#	-	-	-
	umhos/cm	0439	WL	12/09/2002	N001	120.00 - 120.00	8712	F	#	-	-	-
	umhos/cm	0440	WL	12/06/2002	N001	119.50 - 119.50	8074	FQ	#	-	-	-
	umhos/cm	0442	WL	12/09/2002	N001	67.50 - 67.50	28107	F	#	-	-	-
	umhos/cm	0443	WL	12/06/2002	N001	75.00 - 75.00	5878	F	#	-	-	-
	umhos/cm	0444	WL	12/04/2002	N001	118.00 - 118.00	115150	F	#	-	-	-
	umhos/cm	0455	WL	12/05/2002	N001	46.00 - 46.00	2768	FQ	#	-	-	-
	umhos/cm	0456	WL	12/05/2002	N001	52.50 - 52.50	8381	F	#	-	-	-
	umhos/cm	0457	WL	12/04/2002	N001	31.50 - 31.50	5426	F	#	-	-	-
	umhos/cm	0457	WL	12/04/2002	N002	31.50 - 31.50	5426	F	#	-	-	-
	umhos/cm	AMM-1	WL	12/03/2002	N001	55.00 - 55.00	12850	F	#	-	-	-
	umhos/cm	AMM-1	WL	12/03/2002	N001	20.00 - 20.00	10560	F	#	-	-	-
	umhos/cm	AMM-2	WL	12/05/2002	N001	50.00 - 50.00	24027	F	#	-	-	-
	umhos/cm	AMM-2	WL	12/05/2002	N001	15.00 - 15.00	16885	F	#	-	-	-
	umhos/cm	AMM-3	WL	12/05/2002	N001	50.00 - 50.00	15471	F	#	-	-	-
	umhos/cm	ATP-1-D	WL	12/10/2002	N001	399.00 - 399.00	133476	F	#	-	-	-
	umhos/cm	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	133476	F	#	-	-	-
	umhos/cm	ATP-1-ID	WL	12/10/2002	N001	310.00 - 310.00	131922	F	#	-	-	-
	umhos/cm	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	131922	F	#	-	-	-
	umhos/cm	ATP-1-S	WL	12/09/2002	N001	140.00 - 140.00	125350	F	#	-	-	-
	umhos/cm	ATP-2-D	WL	12/05/2002	N001	91.00 - 91.00	116790	F	#	-	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
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PARAMETER	UNITS	LOCATION	LOCATION	SAMPLE:	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:	DETECTION LIMIT	UN- CERTAINTY
		ID	TYPE	DATE				LAB	DATA	
Specific Conductance	umhos/cm	ATP-2-S	WL	12/05/2002	N001	38.00 - 38.00	21093	F	#	-
	umhos/cm	ATP-3	WL	12/06/2002	N001	52.60 - 52.60	2636	F	#	-
	umhos/cm	M11-14.0	WL	12/11/2002	N001	45.90 - 45.90	70850	F	#	-
	umhos/cm	MW-1-R	WL	12/05/2002	N001	14.00 - 14.00	33982	F	#	-
	umhos/cm	MW-3	WL	12/05/2002	N001	54.00 - 54.00	32900	F	#	-
	umhos/cm	N7-10	WL	12/11/2002	N001	32.80 - 32.80	78390	F	#	-
	umhos/cm	OW-2	WL	12/05/2002	N001	31.40 - 31.40	20758	F	#	-
	umhos/cm	OW-2	WL	12/05/2002	N002	31.40 - 31.40	20758	F	#	-
	umhos/cm	RW-01	WL	12/04/2002	N001	75.00 - 75.00	1152	F	#	-
	umhos/cm	SMI-PZ3D2	WL	12/04/2002	N001	80.00 - 80.00	20805	F	#	-
	umhos/cm	SMI-PZ3M	WL	12/04/2002	N001	60.60 - 60.60	8393	F	#	-
	umhos/cm	SMI-PZ3S	WL	12/04/2002	N001	27.30 - 27.30	5240	F	#	-
	umhos/cm	TP-01	WL	12/03/2002	N001	23.80 - 23.80	18577	F	#	-
	umhos/cm	TP-02	WL	12/03/2002	N001	31.60 - 31.60	4891	F	#	-
	umhos/cm	TP-07	WL	12/05/2002	N001	28.60 - 28.60	17436	F	#	-
	umhos/cm	TP-11	WL	12/03/2002	N001	31.40 - 31.40	20060	F	#	-
	umhos/cm	TP-17	WL	12/03/2002	N001	28.00 - 28.00	124300	F	#	-
	umhos/cm	TP-18	WL	12/04/2002	N001	20.90 - 20.90	121800	F	#	-
	umhos/cm	TP-19	WL	12/04/2002	N001	29.00 - 29.00	120600	F	#	-
	umhos/cm	TP-20	WL	12/04/2002	N001	35.00 - 35.00	119100	F	#	-
	umhos/cm	W1-7	WL	12/11/2002	N001	36.00 - 36.00	67730	F	#	-
Specific Gravity	0412	WL	12/03/2002	0001	13.30 - 13.30	1.01	F	#	-	-
	0414	WL	12/03/2002	0001	10.60 - 10.60	1.01	FQ	#	-	-
	0430	WL	12/04/2002	0001	105.50 - 105.50	1.01	F	#	-	-
	0430	WL	12/04/2002	0001	96.50 - 96.50	1	F	#	-	-
	0431	WL	12/06/2002	0001	93.50 - 93.50	1.02	FQ	#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION	LOCATION	SAMPLE:	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN- CERTAINTY
		ID	TYPE	DATE			LAB	DATA	QA		
Specific Gravity	0432	WL	12/05/2002	0001	55.00 - 55.00	1	F	#	-	-	-
	0433	WL	12/05/2002	0001	99.00 - 99.00	1.01	F	#	-	-	-
	0434	WL	12/05/2002	0001	80.00 - 80.00	1.02	F	#	-	-	-
	0435	WL	12/04/2002	0001	176.00 - 176.00	1.07	F	#	-	-	-
	0436	WL	12/04/2002	0001	200.00 - 200.00	1.07	F	#	-	-	-
	0437	WL	12/10/2002	0001	98.00 - 98.00	1.01	F	#	-	-	-
	0438	WL	12/10/2002	0001	120.00 - 120.00	1.01	F	#	-	-	-
	0439	WL	12/09/2002	0001	120.00 - 120.00	1.01	F	#	-	-	-
	0440	WL	12/06/2002	0001	119.50 - 119.50	1.01	FQ	#	-	-	-
	0442	WL	12/09/2002	0001	67.50 - 67.50	1.02	F	#	-	-	-
	0443	WL	12/06/2002	0001	75.00 - 75.00	1	F	#	-	-	-
	0444	WL	12/04/2002	0001	118.00 - 118.00	1.07	F	#	-	-	-
	0455	WL	12/05/2002	0001	46.00 - 46.00	1	FQ	#	-	-	-
	0455	WL	12/05/2002	N002	46.00 - 46.00	1	FQ	#	-	-	-
	0456	WL	12/05/2002	0001	52.50 - 52.50	1.01	F	#	-	-	-
	0456	WL	12/05/2002	N002	52.50 - 52.50	1.01	F	#	-	-	-
	0457	WL	12/04/2002	0001	31.50 - 31.50	1	F	#	-	-	-
	0457	WL	12/04/2002	N002	31.50 - 31.50	1.01	F	#	-	-	-
	0537	BH	12/10/2002	0001	0.00 - 0.00	1.14	#	-	-	-	-
AMM-1	WL	12/03/2002	0001	20.00 - 20.00	1.01	F	#	-	-	-	-
AMM-1	WL	12/03/2002	0001	55.00 - 55.00	1.01	F	#	-	-	-	-
AMM-1	WL	12/03/2002	0002	20.00 - 20.00	1.01	F	#	-	-	-	-
AMM-2	WL	12/05/2002	0001	15.00 - 15.00	1.01	F	#	-	-	-	-
AMM-2	WL	12/05/2002	0001	50.00 - 50.00	1.02	F	#	-	-	-	-
AMM-3	WL	12/05/2002	0001	50.00 - 50.00	1.01	F	#	-	-	-	-
ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	1.08	F	#	-	-	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION	LOCATION	SAMPLE:	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:	DETECTION	UN-
		ID	TYPE	DATE			LAB	DATA	CERTAINTY
Specific Gravity		ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	1.08	F	#
		ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	1.07	F	#
		ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	1.08	F	#
		ATP-1-S	WL	12/09/2002	0001	140.00 - 140.00	1.07	F	#
		ATP-2-D	WL	12/05/2002	0001	91.00 - 91.00	1.06	F	#
		ATP-2-S	WL	12/05/2002	0001	38.00 - 38.00	1.01	F	#
		ATP-3	WL	12/06/2002	0001	52.60 - 52.60	1.01	F	#
		M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	1.04	F	#
		MW-1-R	WL	12/05/2002	0001	14.00 - 14.00	1.03	F	#
		MW-3	WL	12/05/2002	0001	54.00 - 54.00	1.03	F	#
		N7-10	WL	12/11/2002	0001	32.80 - 32.80	1.04	F	#
		OW-2	WL	12/05/2002	0001	31.40 - 31.40	1.02	F	#
		OW-2	WL	12/05/2002	0002	31.40 - 31.40	1.02	F	#
		OW-2	WL	12/05/2002	N002	31.40 - 31.40	1.02	F	#
		RW-01	WL	12/04/2002	0001	75.00 - 75.00	1	F	#
		SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	1.02	F	#
		SMI-PZ3M	WL	12/04/2002	0001	60.60 - 60.60	1.01	F	#
		SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	1	F	#
		TP-01	WL	12/03/2002	0001	23.80 - 23.80	1.01	F	#
		TP-02	WL	12/03/2002	0001	31.60 - 31.60	1.01	F	#
		TP-07	WL	12/05/2002	0001	28.60 - 28.60	1.01	F	#
		TP-11	WL	12/03/2002	0001	31.40 - 31.40	1.01	F	#
		TP-17	WL	12/03/2002	0001	28.00 - 28.00	1.07	F	#
		TP-18	WL	12/04/2002	0001	20.90 - 20.90	1.08	F	#
		TP-19	WL	12/04/2002	0001	29.00 - 29.00	1.08	F	#
		TP-20	WL	12/04/2002	0001	35.00 - 35.00	1.07	F	#

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Specific Gravity		W1-7	WL	12/11/2002	0001	36.00 - 36.00	1.04	F	#	-	-	-
Strontium	mg/L	0412	WL	12/03/2002	0001	13.30 - 13.30	5.740	F	#	0.0005	-	-
	mg/L	0414	WL	12/03/2002	0001	10.60 - 10.60	1.390	FQ	#	0.0005	-	-
	mg/L	0430	WL	12/04/2002	0001	96.50 - 96.50	2.160	F	#	0.0005	-	-
	mg/L	0430	WL	12/04/2002	0001	105.50 - 105.50	5.040	F	#	0.0005	-	-
	mg/L	0430	WL	12/04/2002	0002	96.50 - 96.50	1.900	F	#	0.0005	-	-
	mg/L	0431	WL	12/06/2002	0001	93.50 - 93.50	12.300	FQ	#	0.0005	-	-
	mg/L	0432	WL	12/05/2002	0001	55.00 - 55.00	2.590	F	#	0.0005	-	-
	mg/L	0433	WL	12/05/2002	0001	99.00 - 99.00	2.870	F	#	0.0005	-	-
	mg/L	0434	WL	12/05/2002	0001	80.00 - 80.00	12.700	F	#	0.0005	-	-
	mg/L	0435	WL	12/04/2002	0001	176.00 - 176.00	36.900	F	#	0.002	-	-
	mg/L	0436	WL	12/04/2002	0001	200.00 - 200.00	30.900	F	#	0.002	-	-
	mg/L	0437	WL	12/10/2002	0001	98.00 - 98.00	11.500	F	#	0.0005	-	-
	mg/L	0438	WL	12/10/2002	0001	120.00 - 120.00	10.300	F	#	0.0005	-	-
	mg/L	0439	WL	12/09/2002	0001	120.00 - 120.00	13.200	F	#	0.0005	-	-
	mg/L	0440	WL	12/06/2002	0001	119.50 - 119.50	14.600	FQ	#	0.0005	-	-
	mg/L	0442	WL	12/09/2002	0001	67.50 - 67.50	9.780	F	#	0.0005	-	-
	mg/L	0443	WL	12/06/2002	0001	75.00 - 75.00	7.380	F	#	0.0005	-	-
	mg/L	0444	WL	12/04/2002	0001	118.00 - 118.00	35.300	F	#	0.002	-	-
	mg/L	0455	WL	12/05/2002	0001	46.00 - 46.00	2.280	FQ	#	0.0005	-	-
	mg/L	0455	WL	12/05/2002	N002	46.00 - 46.00	2.340	FQ	#	0.00056	-	-
	mg/L	0456	WL	12/05/2002	0001	52.50 - 52.50	3.440	F	#	0.0005	-	-
	mg/L	0456	WL	12/05/2002	N002	52.50 - 52.50	3.360	F	#	0.00056	-	-
	mg/L	0457	WL	12/04/2002	0001	31.50 - 31.50	1.770	F	#	0.0005	-	-
	mg/L	0457	WL	12/04/2002	N002	31.50 - 31.50	1.840	F	#	0.00056	-	-
	mg/L	0537	BH	12/10/2002	0001	0.00 - 0.00	13.900	#		0.0005	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION	LOCATION	SAMPLE:	DEPTH RANGE	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
		ID	TYPE	DATE			LAB	DATA	QA		
Strontium	mg/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	5.650	F	#	0.0005	-
	mg/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	5.570	F	#	0.0005	-
	mg/L	AMM-1	WL	12/03/2002	0002	20.00 - 20.00	5.620	F	#	0.0005	-
	mg/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	32.000	F	#	0.002	-
	mg/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	32.500	F	#	0.00222	-
	mg/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	32.300	F	#	0.002	-
	mg/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	32.700	F	#	0.00222	-
	mg/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	24.800	F	#	0.0005	-
	mg/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	23.200	F	#	0.0005	-
	mg/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	11.300	F	#	0.0005	-
	mg/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	11.200	F	#	0.0005	-
	mg/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	11.700	F	#	0.00056	-
	mg/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	2.340	F	#	0.0005	-
	mg/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	15.000	F	#	0.0005	-
Sulfate	mg/L	SMI-PZ3M	WL	12/04/2002	0001	60.60 - 60.60	4.220	F	#	0.0005	-
	mg/L	SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	1.760	F	#	0.0005	-
	mg/L	W1-7	WL	12/11/2002	0001	36.00 - 36.00	65.000	F	#	0.002	-
	mg/L	0412	WL	12/03/2002	0001	13.30 - 13.30	1260.000	F	#	0.788	-
	mg/L	0414	WL	12/03/2002	0001	10.60 - 10.60	925.000	FQ	#	0.788	-
	mg/L	0430	WL	12/04/2002	0001	105.50 - 105.50	152.000	F	#	1.97	-
	mg/L	0430	WL	12/04/2002	0001	96.50 - 96.50	122.000	F	#	0.394	-
	mg/L	0430	WL	12/04/2002	0002	96.50 - 96.50	133.000	F	#	0.394	-
	mg/L	0431	WL	12/06/2002	0001	93.50 - 93.50	1870.000	FQ	#	19.7	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Sulfate	mg/L	0435	WL	12/04/2002	0001	176.00 - 176.00	4980.000	F	#		39.4	-
	mg/L	0436	WL	12/04/2002	0001	200.00 - 200.00	5040.000	F	#		39.4	-
	mg/L	0437	WL	12/10/2002	0001	98.00 - 98.00	3750.000	F	#		1.97	-
	mg/L	0438	WL	12/10/2002	0001	120.00 - 120.00	3390.000	F	#		1.97	-
	mg/L	0439	WL	12/09/2002	0001	120.00 - 120.00	3730.000	F	#		1.97	-
	mg/L	0440	WL	12/06/2002	0001	119.50 - 119.50	2310.000	FQ	#		1.97	-
	mg/L	0442	WL	12/09/2002	0001	67.50 - 67.50	15500.000	F	#		7.88	-
	mg/L	0443	WL	12/06/2002	0001	75.00 - 75.00	449.000	F	#		1.97	-
	mg/L	0444	WL	12/04/2002	0001	118.00 - 118.00	4550.000	F	#		19.7	-
	mg/L	0455	WL	12/05/2002	0001	46.00 - 46.00	327.000	FQ	#		0.788	-
	mg/L	0455	WL	12/05/2002	N002	46.00 - 46.00	349.000	FQ	#		0.788	-
	mg/L	0456	WL	12/05/2002	0001	52.50 - 52.50	1140.000	F	#		1.97	-
	mg/L	0456	WL	12/05/2002	N002	52.50 - 52.50	1080.000	F	#		1.97	-
	mg/L	0457	WL	12/04/2002	0001	31.50 - 31.50	503.000	F	#		1.97	-
	mg/L	0457	WL	12/04/2002	N002	31.50 - 31.50	500.000	F	#		1.97	-
	mg/L	0537	BH	12/10/2002	0001	0.00 - 0.00	119000.000		#		78.8	-
	mg/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	1040.000	F	#		1.97	-
	mg/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	990.000	F	#		1.97	-
	mg/L	AMM-1	WL	12/03/2002	0002	20.00 - 20.00	1070.000	F	#		1.97	-
	mg/L	AMM-2	WL	12/05/2002	0001	50.00 - 50.00	12000.000	F	#		7.88	-
	mg/L	AMM-2	WL	12/05/2002	0001	15.00 - 15.00	7260.000	F	#		3.94	-
	mg/L	AMM-3	WL	12/05/2002	0001	50.00 - 50.00	8370.000	F	#		3.94	-
	mg/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	5330.000	F	#		39.4	-
	mg/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	5090.000	F	#		39.4	-
	mg/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	5030.000	F	#		39.4	-
	mg/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	4940.000	F	#		39.4	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Sulfate	mg/L	ATP-1-S	WL	12/09/2002	0001	140.00 - 140.00	5460.000	F	#	-	39.4	-
	mg/L	ATP-2-D	WL	12/05/2002	0001	91.00 - 91.00	5730.000	F	#	-	19.7	-
	mg/L	ATP-2-S	WL	12/05/2002	0001	38.00 - 38.00	6950.000	F	#	-	3.94	-
	mg/L	ATP-3	WL	12/06/2002	0001	52.60 - 52.60	263.000	F	#	-	0.394	-
	mg/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	2990.000	F	#	-	19.7	-
	mg/L	MW-1-R	WL	12/05/2002	0001	14.00 - 14.00	23300.000	F	#	-	15.76	-
	mg/L	MW-3	WL	12/05/2002	0001	54.00 - 54.00	16400.000	F	#	-	7.88	-
	mg/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	2580.000	F	#	-	19.7	-
	mg/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	11100.000	F	#	-	7.88	-
	mg/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	11600.000	F	#	-	7.88	-
	mg/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	11400.000	F	#	-	7.88	-
	mg/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	214.000	F	#	-	0.394	-
	mg/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	8710.000	F	#	-	3.94	-
	mg/L	SMI-PZ3M	WL	12/04/2002	0001	60.60 - 60.60	1610.000	F	#	-	1.97	-
	mg/L	SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	1080.000	F	#	-	0.788	-
	mg/L	TP-01	WL	12/03/2002	0001	23.80 - 23.80	3840.000	F	#	-	3.94	-
	mg/L	TP-02	WL	12/03/2002	0001	31.60 - 31.60	1710.000	F	#	-	0.788	-
	mg/L	TP-07	WL	12/05/2002	0001	28.60 - 28.60	8380.000	F	#	-	3.94	-
	mg/L	TP-11	WL	12/03/2002	0001	31.40 - 31.40	2530.000	F	#	-	3.94	-
	mg/L	TP-17	WL	12/03/2002	0001	28.00 - 28.00	5430.000	F	#	-	19.7	-
	mg/L	TP-18	WL	12/04/2002	0001	20.90 - 20.90	5720.000	F	#	-	19.7	-
	mg/L	TP-19	WL	12/04/2002	0001	29.00 - 29.00	5580.000	F	#	-	19.7	-
	mg/L	TP-20	WL	12/04/2002	0001	35.00 - 35.00	5520.000	F	#	-	19.7	-
	mg/L	W1-7	WL	12/11/2002	0001	36.00 - 36.00	3110.000	F	#	-	19.7	-
Temperature	C	0412	WL	12/03/2002	N001	13.30 - 13.30	17.2	F	#	-	-	-
	C	0414	WL	12/03/2002	N001	10.60 - 10.60	14.6	FQ	#	-	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION	LOCATION	SAMPLE:	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN- CERTAINTY
		ID	TYPE	DATE				LAB	DATA	QA		
Temperature	C	0430	WL	12/04/2002	N001	96.50 - 96.50	17.27	F	#		-	-
	C	0431	WL	12/06/2002	N001	93.50 - 93.50	16.5	FQ	#		-	-
	C	0432	WL	12/05/2002	N001	55.00 - 55.00	19.36	F	#		-	-
	C	0433	WL	12/05/2002	N001	99.00 - 99.00	18.71	F	#		-	-
	C	0434	WL	12/05/2002	N001	80.00 - 80.00	17.46	F	#		-	-
	C	0435	WL	12/04/2002	N001	176.00 - 176.00	16.9	F	#		-	-
	C	0436	WL	12/04/2002	N001	200.00 - 200.00	17.6	F	#		-	-
	C	0437	WL	12/10/2002	N001	98.00 - 98.00	14.31	F	#		-	-
	C	0438	WL	12/10/2002	N001	120.00 - 120.00	16.03	F	#		-	-
	C	0439	WL	12/09/2002	N001	120.00 - 120.00	14.93	F	#		-	-
	C	0440	WL	12/06/2002	N001	119.50 - 119.50	16.4	FQ	#		-	-
	C	0442	WL	12/09/2002	N001	67.50 - 67.50	12.6	F	#		-	-
	C	0443	WL	12/06/2002	N001	75.00 - 75.00	17.7	F	#		-	-
	C	0444	WL	12/04/2002	N001	118.00 - 118.00	17.7	F	#		-	-
	C	0455	WL	12/05/2002	N001	46.00 - 46.00	15.96	FQ	#		-	-
	C	0456	WL	12/05/2002	N001	52.50 - 52.50	17.9	F	#		-	-
	C	0457	WL	12/04/2002	N001	31.50 - 31.50	17.5	F	#		-	-
	C	0457	WL	12/04/2002	N002	31.50 - 31.50	17.5	F	#		-	-
	C	AMM-1	WL	12/03/2002	N001	55.00 - 55.00	16	F	#		-	-
	C	AMM-1	WL	12/03/2002	N001	20.00 - 20.00	14.3	F	#		-	-
	C	AMM-2	WL	12/05/2002	N001	15.00 - 15.00	14.1	F	#		-	-
	C	AMM-2	WL	12/05/2002	N001	50.00 - 50.00	14.9	F	#		-	-
	C	AMM-3	WL	12/05/2002	N001	50.00 - 50.00	17.9	F	#		-	-
	C	ATP-1-D	WL	12/10/2002	N001	399.00 - 399.00	16.5	F	#		-	-
	C	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	16.5	F	#		-	-
	C	ATP-1-ID	WL	12/10/2002	N001	310.00 - 310.00	16.2	F	#		-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Temperature	C	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	16.2	F	#	-	-	-
	C	ATP-1-S	WL	12/09/2002	N001	140.00 - 140.00	15.6	F	#	-	-	-
	C	ATP-2-D	WL	12/05/2002	N001	91.00 - 91.00	16.7	F	#	-	-	-
	C	ATP-2-S	WL	12/05/2002	N001	38.00 - 38.00	15.8	F	#	-	-	-
	C	ATP-3	WL	12/06/2002	N001	52.60 - 52.60	16.6	F	#	-	-	-
	C	M11-14.0	WL	12/11/2002	N001	45.90 - 45.90	13.1	F	#	-	-	-
	C	MW-1-R	WL	12/05/2002	N001	14.00 - 14.00	16.5	F	#	-	-	-
	C	MW-3	WL	12/05/2002	N001	54.00 - 54.00	15.7	F	#	-	-	-
	C	N7-10	WL	12/11/2002	N001	32.80 - 32.80	11.51	F	#	-	-	-
	C	OW-2	WL	12/05/2002	N001	31.40 - 31.40	16.8	F	#	-	-	-
	C	OW-2	WL	12/05/2002	N002	31.40 - 31.40	16.8	F	#	-	-	-
	C	RW-01	WL	12/04/2002	N001	75.00 - 75.00	17.38	F	#	-	-	-
	C	SMI-PZ3D2	WL	12/04/2002	N001	80.00 - 80.00	16.3	F	#	-	-	-
	C	SMI-PZ3M	WL	12/04/2002	N001	60.60 - 60.60	17.2	F	#	-	-	-
	C	SMI-PZ3S	WL	12/04/2002	N001	27.30 - 27.30	18.5	F	#	-	-	-
	C	TP-01	WL	12/03/2002	N001	23.80 - 23.80	15.7	F	#	-	-	-
	C	TP-02	WL	12/03/2002	N001	31.60 - 31.60	15.5	F	#	-	-	-
	C	TP-07	WL	12/05/2002	N001	28.60 - 28.60	14.4	F	#	-	-	-
	C	TP-11	WL	12/03/2002	N001	31.40 - 31.40	15.7	F	#	-	-	-
	C	TP-17	WL	12/03/2002	N001	28.00 - 28.00	12.42	F	#	-	-	-
	C	TP-18	WL	12/04/2002	N001	20.90 - 20.90	14.31	F	#	-	-	-
	C	TP-19	WL	12/04/2002	N001	29.00 - 29.00	13.6	F	#	-	-	-
	C	TP-20	WL	12/04/2002	N001	35.00 - 35.00	15.53	F	#	-	-	-
	C	W1-7	WL	12/11/2002	N001	36.00 - 36.00	14.94	F	#	-	-	-
Total Dissolved Solids	mg/L	0412	WL	12/03/2002	0001	13.30 - 13.30	3810	F	#	10	-	-
	mg/L	0414	WL	12/03/2002	0001	10.60 - 10.60	2860	FQ	#	10	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			UN-CERTAINTY
								LAB	DATA	QA	
Total Dissolved Solids	mg/L	0430	WL	12/04/2002	0001	96.50 - 96.50	957	F	#	10	-
	mg/L	0430	WL	12/04/2002	0001	105.50 - 105.50	2980	F	#	10	-
	mg/L	0430	WL	12/04/2002	0002	96.50 - 96.50	962	F	#	10	-
	mg/L	0431	WL	12/06/2002	0001	93.50 - 93.50	23400	FQ	#	10	-
	mg/L	0432	WL	12/05/2002	0001	55.00 - 55.00	1780	F	#	10	-
	mg/L	0433	WL	12/05/2002	0001	99.00 - 99.00	2570	F	#	10	-
	mg/L	0434	WL	12/05/2002	0001	80.00 - 80.00	27600	F	#	10	-
	mg/L	0435	WL	12/04/2002	0001	176.00 - 176.00	95300	F	#	10	-
	mg/L	0436	WL	12/04/2002	0001	200.00 - 200.00	104000	F	#	10	-
	mg/L	0437	WL	12/10/2002	0001	98.00 - 98.00	8520	F	#	10	-
	mg/L	0438	WL	12/10/2002	0001	120.00 - 120.00	7400	F	#	10	-
	mg/L	0439	WL	12/09/2002	0001	120.00 - 120.00	8310	F	#	10	-
	mg/L	0440	WL	12/06/2002	0001	119.50 - 119.50	6380	FQ	#	10	-
	mg/L	0442	WL	12/09/2002	0001	67.50 - 67.50	22000	F	#	10	-
	mg/L	0443	WL	12/06/2002	0001	75.00 - 75.00	3980	F	#	10	-
	mg/L	0444	WL	12/04/2002	0001	118.00 - 118.00	93000	F	#	10	-
	mg/L	0455	WL	12/05/2002	0001	46.00 - 46.00	1720	FQ	#	10	-
	mg/L	0455	WL	12/05/2002	N002	46.00 - 46.00	1720	FQ	#	10	-
	mg/L	0456	WL	12/05/2002	0001	52.50 - 52.50	5530	F	#	10	-
	mg/L	0456	WL	12/05/2002	N002	52.50 - 52.50	5500	F	#	10	-
	mg/L	0457	WL	12/04/2002	0001	31.50 - 31.50	3240	F	#	10	-
	mg/L	0457	WL	12/04/2002	N002	31.50 - 31.50	3240	F	#	10	-
	mg/L	0537	BH	12/10/2002	0001	0.00 - 0.00	170000		#	10	-
	mg/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	7000	F	#	10	-
	mg/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	6760	F	#	10	-
	mg/L	AMM-1	WL	12/03/2002	0002	20.00 - 20.00	6720	F	#	10	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION	LOCATION	SAMPLE:	DEPTH RANGE	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
		ID	TYPE	DATE			LAB	DATA	QA		
Total Dissolved Solids	mg/L	AMM-2	WL	12/05/2002	0001	50.00 - 50.00	20500	F	#	10	-
	mg/L	AMM-2	WL	12/05/2002	0001	15.00 - 15.00	14600	F	#	10	-
	mg/L	AMM-3	WL	12/05/2002	0001	50.00 - 50.00	15900	F	#	10	-
	mg/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	111000	F	#	10	-
	mg/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	111000	F	#	10	-
	mg/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	109000	F	#	10	-
	mg/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	110000	F	#	10	-
	mg/L	ATP-1-S	WL	12/09/2002	0001	140.00 - 140.00	102000	F	#	10	-
	mg/L	ATP-2-D	WL	12/05/2002	0001	91.00 - 91.00	91700	F	#	10	-
	mg/L	ATP-2-S	WL	12/05/2002	0001	38.00 - 38.00	17100	F	#	10	-
	mg/L	ATP-3	WL	12/06/2002	0001	52.60 - 52.60	1590	F	#	10	-
	mg/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	52200	F	#	10	-
	mg/L	MW-1-R	WL	12/05/2002	0001	14.00 - 14.00	34000	F	#	10	-
	mg/L	MW-3	WL	12/05/2002	0001	54.00 - 54.00	30800	F	#	10	-
	mg/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	57000	F	#	10	-
	mg/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	17000	F	#	10	-
	mg/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	16900	F	#	10	-
	mg/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	16800	F	#	10	-
	mg/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	745	F	#	10	-
	mg/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	17500	F	#	10	-
	mg/L	SMI-PZ3M	WL	12/04/2002	0001	60.60 - 60.60	5520	F	#	10	-
	mg/L	SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	3520	F	#	10	-
	mg/L	TP-01	WL	12/03/2002	0001	23.80 - 23.80	13900	F	#	10	-
	mg/L	TP-02	WL	12/03/2002	0001	31.60 - 31.60	4080	F	#	10	-
	mg/L	TP-07	WL	12/05/2002	0001	28.60 - 28.60	16500	F	#	10	-
	mg/L	TP-11	WL	12/03/2002	0001	31.40 - 31.40	14100	F	#	10	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Total Dissolved Solids	mg/L	TP-17	WL	12/03/2002	0001	28.00 - 28.00	99000	F	#	10	-	-
	mg/L	TP-18	WL	12/04/2002	0001	20.90 - 20.90	108000	F	#	10	-	-
	mg/L	TP-19	WL	12/04/2002	0001	29.00 - 29.00	107000	F	#	10	-	-
	mg/L	TP-20	WL	12/04/2002	0001	35.00 - 35.00	105000	F	#	10	-	-
	mg/L	W1-7	WL	12/11/2002	0001	36.00 - 36.00	52300	F	#	10	-	-
Turbidity	NTU	0412	WL	12/03/2002	N001	13.30 - 13.30	7.82	F	#	-	-	-
	NTU	0430	WL	12/04/2002	N001	96.50 - 96.50	0.9	F	#	-	-	-
	NTU	0431	WL	12/06/2002	N001	93.50 - 93.50	9.72	FQ	#	-	-	-
	NTU	0432	WL	12/05/2002	N001	55.00 - 55.00	5.32	F	#	-	-	-
	NTU	0433	WL	12/05/2002	N001	99.00 - 99.00	6.7	F	#	-	-	-
	NTU	0434	WL	12/05/2002	N001	80.00 - 80.00	1.66	F	#	-	-	-
	NTU	0435	WL	12/04/2002	N001	176.00 - 176.00	7.75	F	#	-	-	-
	NTU	0436	WL	12/04/2002	N001	200.00 - 200.00	2.83	F	#	-	-	-
	NTU	0437	WL	12/10/2002	N001	98.00 - 98.00	9.69	F	#	-	-	-
	NTU	0438	WL	12/10/2002	N001	120.00 - 120.00	1.09	F	#	-	-	-
	NTU	0439	WL	12/09/2002	N001	120.00 - 120.00	1.92	F	#	-	-	-
	NTU	0440	WL	12/06/2002	N001	119.50 - 119.50	73.5	FQ	#	-	-	-
	NTU	0442	WL	12/09/2002	N001	67.50 - 67.50	1.82	F	#	-	-	-
	NTU	0443	WL	12/06/2002	N001	75.00 - 75.00	8.41	F	#	-	-	-
	NTU	0444	WL	12/04/2002	N001	118.00 - 118.00	2.29	F	#	-	-	-
	NTU	0455	WL	12/05/2002	N001	46.00 - 46.00	121	FQ	#	-	-	-
	NTU	0456	WL	12/05/2002	N001	52.50 - 52.50	144	F	#	-	-	-
	NTU	0457	WL	12/04/2002	N001	31.50 - 31.50	3.49	F	#	-	-	-
	NTU	0457	WL	12/04/2002	N002	31.50 - 31.50	3.49	F	#	-	-	-
	NTU	AMM-1	WL	12/03/2002	N001	20.00 - 20.00	1.52	F	#	-	-	-
	NTU	AMM-1	WL	12/03/2002	N001	55.00 - 55.00	3.8	F	#	-	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
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PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			UN-CERTAINTY
								LAB	DATA	QA	
Turbidity	NTU	AMM-2	WL	12/05/2002	N001	50.00 - 50.00	2.08	F	#	-	-
	NTU	AMM-2	WL	12/05/2002	N001	15.00 - 15.00	3.31	F	#	-	-
	NTU	AMM-3	WL	12/05/2002	N001	50.00 - 50.00	9.65	F	#	-	-
	NTU	ATP-1-D	WL	12/10/2002	N001	399.00 - 399.00	7.88	F	#	-	-
	NTU	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	7.88	F	#	-	-
	NTU	ATP-1-ID	WL	12/10/2002	N001	310.00 - 310.00	9.81	F	#	-	-
	NTU	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	9.81	F	#	-	-
	NTU	ATP-1-S	WL	12/09/2002	N001	140.00 - 140.00	1.27	F	#	-	-
	NTU	ATP-2-D	WL	12/05/2002	N001	91.00 - 91.00	30.8	F	#	-	-
	NTU	ATP-2-S	WL	12/05/2002	N001	38.00 - 38.00	6.34	F	#	-	-
	NTU	ATP-3	WL	12/06/2002	N001	52.60 - 52.60	1.07	F	#	-	-
	NTU	M11-14.0	WL	12/11/2002	N001	45.90 - 45.90	1.87	F	#	-	-
	NTU	MW-1-R	WL	12/05/2002	N001	14.00 - 14.00	8.75	F	#	-	-
	NTU	MW-3	WL	12/05/2002	N001	54.00 - 54.00	1.92	F	#	-	-
	NTU	N7-10	WL	12/11/2002	N001	32.80 - 32.80	7.75	F	#	-	-
	NTU	OW-2	WL	12/05/2002	N001	31.40 - 31.40	6.14	F	#	-	-
	NTU	OW-2	WL	12/05/2002	N002	31.40 - 31.40	6.14	F	#	-	-
	NTU	RW-01	WL	12/04/2002	N001	75.00 - 75.00	5.64	F	#	-	-
	NTU	SMI-PZ3D2	WL	12/04/2002	N001	80.00 - 80.00	2.68	F	#	-	-
	NTU	SMI-PZ3M	WL	12/04/2002	N001	60.60 - 60.60	2.99	F	#	-	-
	NTU	SMI-PZ3S	WL	12/04/2002	N001	27.30 - 27.30	2.4	F	#	-	-
	NTU	TP-01	WL	12/03/2002	N001	23.80 - 23.80	9.8	F	#	-	-
	NTU	TP-02	WL	12/03/2002	N001	31.60 - 31.60	9.99	F	#	-	-
	NTU	TP-07	WL	12/05/2002	N001	28.60 - 28.60	4.12	F	#	-	-
	NTU	TP-11	WL	12/03/2002	N001	31.40 - 31.40	63.5	F	#	-	-
	NTU	TP-17	WL	12/03/2002	N001	28.00 - 28.00	8.41	F	#	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
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PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE:		DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
				DATE	ID			LAB	DATA	QA		
Turbidity	NTU	TP-18	WL	12/04/2002	N001	20.90 - 20.90	9.71	F	#	-	-	-
	NTU	TP-19	WL	12/04/2002	N001	29.00 - 29.00	8.01	F	#	-	-	-
	NTU	TP-20	WL	12/04/2002	N001	35.00 - 35.00	3.7	F	#	-	-	-
	NTU	W1-7	WL	12/11/2002	N001	36.00 - 36.00	0.82	F	#	-	-	-
Uranium	mg/L	0412	WL	12/03/2002	0001	13.30 - 13.30	12.200	F	#	0.01	-	-
	mg/L	0414	WL	12/03/2002	0001	10.60 - 10.60	3.180	FQ	#	0.001	-	-
	mg/L	0430	WL	12/04/2002	0001	105.50 - 105.50	0.0054	F	#	0.0001	-	-
	mg/L	0430	WL	12/04/2002	0001	96.50 - 96.50	0.0094	F	#	0.0001	-	-
	mg/L	0430	WL	12/04/2002	0002	96.50 - 96.50	0.0106	F	#	0.0001	-	-
	mg/L	0431	WL	12/06/2002	0001	93.50 - 93.50	0.009	FQ	#	0.0001	-	-
	mg/L	0432	WL	12/05/2002	0001	55.00 - 55.00	0.0019	F	#	0.0001	-	-
	mg/L	0433	WL	12/05/2002	0001	99.00 - 99.00	0.002	F	#	0.0001	-	-
	mg/L	0434	WL	12/05/2002	0001	80.00 - 80.00	0.0149	F	#	0.0001	-	-
	mg/L	0435	WL	12/04/2002	0001	176.00 - 176.00	0.0231	F	#	0.0001	-	-
	mg/L	0436	WL	12/04/2002	0001	200.00 - 200.00	0.0025	F	#	0.0001	-	-
	mg/L	0437	WL	12/10/2002	0001	98.00 - 98.00	3.150	F	#	0.005	-	-
	mg/L	0438	WL	12/10/2002	0001	120.00 - 120.00	1.480	F	#	0.005	-	-
	mg/L	0439	WL	12/09/2002	0001	120.00 - 120.00	0.865	F	#	0.0001	-	-
	mg/L	0440	WL	12/06/2002	0001	119.50 - 119.50	0.0313	FQ	#	0.0001	-	-
	mg/L	0442	WL	12/09/2002	0001	67.50 - 67.50	10.800	F	#	0.01	-	-
	mg/L	0443	WL	12/06/2002	0001	75.00 - 75.00	0.0108	F	#	0.0001	-	-
	mg/L	0444	WL	12/04/2002	0001	118.00 - 118.00	0.0042	F	#	0.0001	-	-
	mg/L	0455	WL	12/05/2002	0001	46.00 - 46.00	0.0025	FQ	#	0.0001	-	-
	mg/L	0455	WL	12/05/2002	N002	46.00 - 46.00	0.0024	FQ	#	0.00011	-	-
	mg/L	0456	WL	12/05/2002	0001	52.50 - 52.50	0.0202	F	#	0.0001	-	-
	mg/L	0456	WL	12/05/2002	N002	52.50 - 52.50	0.0194	F	#	0.00011	-	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
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PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:	DETECTION LIMIT	UN-CERTAINTY	
								LAB	DATA QA		
Uranium	mg/L	0457	WL	12/04/2002	0001	31.50 - 31.50	0.0016	F	#	0.0001	
	mg/L	0457	WL	12/04/2002	N002	31.50 - 31.50	0.0017	F	#	0.00011	
	mg/L	0537	BH	12/10/2002	0001	0.00 - 0.00	14.500		#	0.005	
	mg/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	0.0073	F	#	0.0001	
	mg/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	0.0044	F	#	0.0001	
	mg/L	AMM-1	WL	12/03/2002	0002	20.00 - 20.00	0.0074	F	#	0.0001	
	mg/L	AMM-2	WL	12/05/2002	0001	15.00 - 15.00	1.950	F	#	0.001	
	mg/L	AMM-2	WL	12/05/2002	0001	50.00 - 50.00	2.670	F	#	0.001	
	mg/L	AMM-3	WL	12/05/2002	0001	50.00 - 50.00	1.920	F	#	0.001	
	mg/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	0.00026	B	F	#	0.0001
	mg/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	0.00046	B	F	#	0.00011
	mg/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	0.00028	B	F	#	0.0001
	mg/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	0.00047	B	F	#	0.00011
	mg/L	ATP-1-S	WL	12/09/2002	0001	140.00 - 140.00	0.0011	F	#	0.0001	
	mg/L	ATP-2-D	WL	12/05/2002	0001	91.00 - 91.00	0.100	F	#	0.0001	
	mg/L	ATP-2-S	WL	12/05/2002	0001	38.00 - 38.00	2.720	F	#	0.001	
	mg/L	ATP-3	WL	12/06/2002	0001	52.60 - 52.60	0.005	F	#	0.0001	
	mg/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	0.0011	F	#	0.0001	
	mg/L	MW-1-R	WL	12/05/2002	0001	14.00 - 14.00	1.780	F	#	0.001	
	mg/L	MW-3	WL	12/05/2002	0001	54.00 - 54.00	3.570	F	#	0.001	
	mg/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	0.0038	F	#	0.0001	
	mg/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	3.500	F	#	0.001	
	mg/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	3.690	F	#	0.001	
	mg/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	3.620	F	#	0.00111	
	mg/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	0.012	F	#	0.0001	
	mg/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	2.370	F	#	0.001	

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION	LOCATION	SAMPLE:	DEPTH RANGE	RESULT	QUALIFIERS:	DETECTION	UN-			
		ID	TYPE	DATE	ID		LAB	DATA	CERTAINTY			
Uranium	mg/L	SMI-PZ3M	WL	12/04/2002	0001	60.60 - 60.60	0.672	F	#	0.0001	-	
	mg/L	SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	3.240	F	#	0.001	-	
	mg/L	TP-01	WL	12/03/2002	0001	23.80 - 23.80	0.227	F	#	0.0001	-	
	mg/L	TP-02	WL	12/03/2002	0001	31.60 - 31.60	13.000	F	#	0.01	-	
	mg/L	TP-07	WL	12/05/2002	0001	28.60 - 28.60	2.630	F	#	0.001	-	
	mg/L	TP-11	WL	12/03/2002	0001	31.40 - 31.40	0.00079	B	F	#	0.0001	-
	mg/L	TP-17	WL	12/03/2002	0001	28.00 - 28.00	0.0062	F	#	0.0001	-	
	mg/L	TP-18	WL	12/04/2002	0001	20.90 - 20.90	0.0116	F	#	0.0001	-	
	mg/L	TP-19	WL	12/04/2002	0001	29.00 - 29.00	0.0001	U	F	#	0.0001	-
	mg/L	TP-20	WL	12/04/2002	0001	35.00 - 35.00	0.0012	F	#	0.0001	-	
Vanadium	mg/L	0412	WL	12/03/2002	0001	13.30 - 13.30	0.337	F	#	0.002	-	
	mg/L	0414	WL	12/03/2002	0001	10.60 - 10.60	6.050	FQ	#	0.002	-	
	mg/L	0430	WL	12/04/2002	0001	105.50 - 105.50	0.002	U	F	#	0.002	-
	mg/L	0430	WL	12/04/2002	0001	96.50 - 96.50	0.0021	B	F	#	0.002	-
	mg/L	0430	WL	12/04/2002	0002	96.50 - 96.50	0.002	U	F	#	0.002	-
	mg/L	0431	WL	12/06/2002	0001	93.50 - 93.50	0.002	U	FQ	#	0.002	-
	mg/L	0432	WL	12/05/2002	0001	55.00 - 55.00	0.002	U	F	#	0.002	-
	mg/L	0433	WL	12/05/2002	0001	99.00 - 99.00	0.002	U	F	#	0.002	-
	mg/L	0434	WL	12/05/2002	0001	80.00 - 80.00	0.002	U	F	#	0.002	-
	mg/L	0435	WL	12/04/2002	0001	176.00 - 176.00	0.0029	B	F	#	0.002	-
	mg/L	0436	WL	12/04/2002	0001	200.00 - 200.00	0.002	U	F	#	0.002	-
	mg/L	0437	WL	12/10/2002	0001	98.00 - 98.00	0.002	U	F	#	0.002	-
	mg/L	0438	WL	12/10/2002	0001	120.00 - 120.00	0.002	U	F	#	0.002	-
	mg/L	0439	WL	12/09/2002	0001	120.00 - 120.00	0.002	U	F	#	0.002	-
	mg/L	0440	WL	12/06/2002	0001	119.50 - 119.50	0.002	U	FQ	#	0.002	-

## GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB

REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION	LOCATION	SAMPLE:	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS:			DETECTION LIMIT	UN- CERTAINTY
		ID	TYPE	DATE			LAB	DATA	QA		
Vanadium	mg/L	0442	WL	12/09/2002	0001	67.50 - 67.50	0.138	F	#	0.002	-
	mg/L	0443	WL	12/06/2002	0001	75.00 - 75.00	0.0045	B	F	#	0.002
	mg/L	0444	WL	12/04/2002	0001	118.00 - 118.00	0.002	U	F	#	0.002
	mg/L	0455	WL	12/05/2002	0001	46.00 - 46.00	0.0021	B	FQ	#	0.002
	mg/L	0455	WL	12/05/2002	N002	46.00 - 46.00	0.0032	B	FQ	#	0.00222
	mg/L	0456	WL	12/05/2002	0001	52.50 - 52.50	0.002	U	F	#	0.002
	mg/L	0456	WL	12/05/2002	N002	52.50 - 52.50	0.0065	B	F	#	0.00222
	mg/L	0457	WL	12/04/2002	0001	31.50 - 31.50	0.002	U	F	#	0.002
	mg/L	0457	WL	12/04/2002	N002	31.50 - 31.50	0.0022	U	F	#	0.00222
	mg/L	0537	BH	12/10/2002	0001	0.00 - 0.00	2.360		#	0.002	-
	mg/L	AMM-1	WL	12/03/2002	0001	20.00 - 20.00	0.0029	B	F	#	0.002
	mg/L	AMM-1	WL	12/03/2002	0001	55.00 - 55.00	0.003	B	F	#	0.002
	mg/L	AMM-1	WL	12/03/2002	0002	20.00 - 20.00	0.0036	B	F	#	0.002
	mg/L	ATP-1-D	WL	12/10/2002	0001	399.00 - 399.00	0.002	U	F	#	0.002
	mg/L	ATP-1-D	WL	12/10/2002	N002	399.00 - 399.00	0.003	B	F	#	0.00222
	mg/L	ATP-1-ID	WL	12/10/2002	0001	310.00 - 310.00	0.002	U	F	#	0.002
	mg/L	ATP-1-ID	WL	12/10/2002	N002	310.00 - 310.00	0.0022	U	F	#	0.00222
	mg/L	M11-14.0	WL	12/11/2002	0001	45.90 - 45.90	0.002	U	F	#	0.002
	mg/L	N7-10	WL	12/11/2002	0001	32.80 - 32.80	0.002	U	F	#	0.002
	mg/L	OW-2	WL	12/05/2002	0001	31.40 - 31.40	0.002	U	F	#	0.002
	mg/L	OW-2	WL	12/05/2002	0002	31.40 - 31.40	0.002	U	F	#	0.002
	mg/L	OW-2	WL	12/05/2002	N002	31.40 - 31.40	0.0022	U	F	#	0.00222
	mg/L	RW-01	WL	12/04/2002	0001	75.00 - 75.00	0.0164	B	F	#	0.002
	mg/L	SMI-PZ3D2	WL	12/04/2002	0001	80.00 - 80.00	0.0066	B	F	#	0.002
	mg/L	SMI-PZ3M	WL	12/04/2002	0001	60.60 - 60.60	0.002	U	F	#	0.002
	mg/L	SMI-PZ3S	WL	12/04/2002	0001	27.30 - 27.30	0.145	F	#	0.002	-

GROUND WATER QUALITY DATA BY PARAMETER (USEE200) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/30/2003 4:26 pm

PARAMETER	UNITS	LOCATION ID	LOCATION TYPE	SAMPLE: DATE	SAMPLE: ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DETECTION DATA	UN-LIMIT QA	CERTAINTY
Vanadium	mg/L	W1-7	WL	12/11/2002	0001	36.00 - 36.00	0.0028	B	F	#	0.002

RECORDS: SELECTED FROM USEE200 WHERE site\_code='MOA01' AND quality\_assurance = TRUE AND (data\_validation\_qualifiers IS NULL OR data\_validation\_qualifiers NOT LIKE '%R%' AND data\_validation\_qualifiers NOT LIKE '%X%') AND DATE\_SAMPLED between #12/1/2002# and #12/13/2002#

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

LOCATION TYPES: BH BOREHOLE WL WELL

LAB QUALIFIERS:

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

DATA QUALIFIERS:

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

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

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/29/2003 11:13 am

PARAMETER	UNITS	LOCATION			SAMPLE: ID	RESULT	QUALIFIERS:			DETECTION LIMIT	UN- CERTAINTY
		ID	DATE	LAB			DATA	QA			
Alkalinity, Total (As CaCO <sub>3</sub> )	mg/L	0201	12/03/2002	0001	159		#		-	-	-
	mg/L	0204	12/06/2002	0001	184		#		-	-	-
	mg/L	0205	12/04/2002	0001	164		#		-	-	-
	mg/L	CR1	12/03/2002	0001	161		#		-	-	-
	mg/L	CR2	12/06/2002	0001	178		#		-	-	-
	mg/L	CR2-001	12/06/2002	0001	169		#		-	-	-
	mg/L	CR2B	12/03/2002	0001	347		#		-	-	-
	mg/L	CR2B-001	12/03/2002	0001	173		#		-	-	-
	mg/L	CR3	12/03/2002	0001	158		#		-	-	-
	mg/L	CR3-001	12/03/2002	0001	171		#		-	-	-
	mg/L	CR4	12/03/2002	0001	168		#		-	-	-
	mg/L	CR5	12/03/2002	0001	152		#		-	-	-
	mg/L	CRA	12/06/2002	0001	170		#		-	-	-
	mg/L	CRC	12/03/2002	0001	163		#		-	-	-
	mg/L	CRD	12/03/2002	0001	146		#		-	-	-
	mg/L	CRE	12/03/2002	0001	160		#		-	-	-
Ammonium	mg/L	0201	12/03/2002	0001	0.102	J	#	0.004	-	-	-
	mg/L	0204	12/06/2002	0001	0.027	B	J	#	0.004	-	-
	mg/L	0205	12/04/2002	0001	0.004	U	J	#	0.004	-	-
	mg/L	CR1	12/03/2002	0001	0.004	U	J	#	0.004	-	-
	mg/L	CR2	12/06/2002	0001	3.890		J	#	0.004	-	-
	mg/L	CR2-001	12/06/2002	0001	0.125		J	#	0.004	-	-
	mg/L	CR2B	12/03/2002	0001	239.000		J	#	0.004	-	-
	mg/L	CR2B-001	12/03/2002	0001	0.802		J	#	0.004	-	-
	mg/L	CR3	12/03/2002	0001	3.720		J	#	0.004	-	-
	mg/L	CR3-001	12/03/2002	0001	2.970		J	#	0.004	-	-
	mg/L	CR4	12/03/2002	0001	0.481		J	#	0.004	-	-
	mg/L	CR5	12/03/2002	0001	0.333		J	#	0.004	-	-
	mg/L	CRA	12/06/2002	0001	0.178		J	#	0.004	-	-
	mg/L	CRC	12/03/2002	0001	1.580		J	#	0.004	-	-
	mg/L	CRD	12/03/2002	0001	0.437		J	#	0.004	-	-
	mg/L	CRE	12/03/2002	0001	0.126		J	#	0.004	-	-
Barium	mg/L	0201	12/03/2002	0001	0.0569	BE	J	#	0.002	-	-
	mg/L	0204	12/06/2002	0001	0.002	UE	J	#	0.002	-	-
	mg/L	0204	12/06/2002	0002	0.111	BE	J	#	0.002	-	-
	mg/L	0205	12/04/2002	0001	0.0613	BE	J	#	0.002	-	-
	mg/L	CR1	12/03/2002	0001	0.0572	BE	J	#	0.002	-	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/29/2003 11:13 am

PARAMETER	UNITS	LOCATION			SAMPLE: ID	RESULT	QUALIFIERS:			DETECTION LIMIT	UN- CERTAINTY
		ID	DATE	LAB			DATA	QA			
Barium	mg/L	CR2	12/06/2002	0001		0.0559 BE	J	#	0.002	-	
	mg/L	CR2-001	12/06/2002	0001		0.0596 BE	J	#	0.002	-	
	mg/L	CR2B	12/03/2002	0001		0.053 BE	J	#	0.002	-	
	mg/L	CR2B-001	12/03/2002	0001		0.0565 BE	J	#	0.002	-	
	mg/L	CR3	12/03/2002	0001		0.0586 BE	J	#	0.002	-	
	mg/L	CR3-001	12/03/2002	0001		0.0572 BE	J	#	0.002	-	
	mg/L	CR4	12/03/2002	0001		0.0559 BE	J	#	0.002	-	
	mg/L	CR5	12/03/2002	0001		0.0576 BE	J	#	0.002	-	
	mg/L	CRA	12/06/2002	0001		0.0551 BE	J	#	0.002	-	
	mg/L	CRC	12/03/2002	0001		0.0603 BE	J	#	0.002	-	
Boron	mg/L	CRD	12/03/2002	0001		0.0569 BE	J	#	0.002	-	
	mg/L	CRE	12/03/2002	0001		0.0563 BE	J	#	0.002	-	
	mg/L	0201	12/03/2002	0001		0.0861 B		#	0.019	-	
	mg/L	0204	12/06/2002	0001		0.0896 B		#	0.019	-	
	mg/L	0204	12/06/2002	0002		0.0885 B		#	0.019	-	
	mg/L	0205	12/04/2002	0001		0.0715 B		#	0.019	-	
	mg/L	CR1	12/03/2002	0001		0.114 B		#	0.019	-	
	mg/L	CR2	12/06/2002	0001		0.090 B		#	0.019	-	
	mg/L	CR2-001	12/06/2002	0001		0.0916 B		#	0.019	-	
	mg/L	CR2B	12/03/2002	0001		0.196 B		#	0.019	-	
	mg/L	CR2B-001	12/03/2002	0001		0.0966 B		#	0.019	-	
	mg/L	CR3	12/03/2002	0001		0.0808 B		#	0.019	-	
	mg/L	CR3-001	12/03/2002	0001		0.130 B		#	0.019	-	
	mg/L	CR4	12/03/2002	0001		0.0817 B		#	0.019	-	
	mg/L	CR5	12/03/2002	0001		0.0928 B		#	0.019	-	
Chloride	mg/L	CRA	12/06/2002	0001		0.0882 B		#	0.019	-	
	mg/L	CRC	12/03/2002	0001		0.0808 B		#	0.019	-	
	mg/L	CRD	12/03/2002	0001		0.0933 B		#	0.019	-	
	mg/L	CRE	12/03/2002	0001		0.103 B		#	0.019	-	
	mg/L	0201	12/03/2002	0001		177.000		#	0.401	-	
	mg/L	0204	12/06/2002	0001		161.000		#	0.401	-	
	mg/L	0204	12/06/2002	0002		167.000		#	0.401	-	
	mg/L	0205	12/04/2002	0001		190.000		#	0.401	-	

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/29/2003 11:13 am

PARAMETER	UNITS	LOCATION		SAMPLE:		RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
		ID	DATE	ID	LAB		DATA	QA			
Chloride	mg/L	CR2B-001	12/03/2002	0001		183.000		#	0.401	-	
	mg/L	CR3	12/03/2002	0001		231.000		#	0.401	-	
	mg/L	CR3-001	12/03/2002	0001		230.000		#	0.401	-	
	mg/L	CR4	12/03/2002	0001		198.000		#	0.401	-	
	mg/L	CR5	12/03/2002	0001		186.000		#	0.401	-	
	mg/L	CRA	12/06/2002	0001		179.000		#	0.401	-	
	mg/L	CRC	12/03/2002	0001		245.000		#	0.401	-	
	mg/L	CRD	12/03/2002	0001		186.000		#	0.401	-	
	mg/L	CRE	12/03/2002	0001		179.000		#	0.401	-	
Dissolved Oxygen	mg/L	0201	12/03/2002	N001		11.56		#	-	-	
	mg/L	0205	12/04/2002	N001		12.24		#	-	-	
	mg/L	CR1	12/03/2002	N001		11.59		#	-	-	
	mg/L	CR2	12/06/2002	N001		13.46		#	-	-	
	mg/L	CR2-001	12/06/2002	N001		13.31		#	-	-	
	mg/L	CR2B	12/03/2002	N001		10.21		#	-	-	
	mg/L	CR2B-001	12/03/2002	N001		13.35		#	-	-	
	mg/L	CR3	12/03/2002	N001		13.09		#	-	-	
	mg/L	CR3-001	12/03/2002	N001		13.05		#	-	-	
	mg/L	CR4	12/03/2002	N001		12.42		#	-	-	
	mg/L	CR5	12/03/2002	N001		12.01		#	-	-	
	mg/L	CRA	12/06/2002	N001		14.15		#	-	-	
	mg/L	CRC	12/03/2002	N001		13.2		#	-	-	
	mg/L	CRD	12/03/2002	N001		11.44		#	-	-	
	mg/L	CRE	12/03/2002	N001		11.78		#	-	-	
Gross Alpha	pCi/L	0201	12/03/2002	0001	B	8.81	U	#	7.32	± 4.88	
	pCi/L	0204	12/06/2002	0001		21.56		#	10.07	± 8.03	
	pCi/L	0204	12/06/2002	0002		22.92		#	10.05	± 8.17	
	pCi/L	0205	12/04/2002	0001	UB	7.32		#	7.32	± 4.31	
	pCi/L	CR1	12/03/2002	0001	UB	7.31		#	7.31	± 4.66	
	pCi/L	CR2	12/06/2002	0001		54.49		#	11.61	± 11.9	
	pCi/L	CR2-001	12/06/2002	0001		13.85		#	10.08	± 7.19	
	pCi/L	CR2B	12/03/2002	0001	B	310.42		#	36.63	± 42.5	
	pCi/L	CR2B-001	12/03/2002	0001	B	15.48	U	#	7.35	± 5.49	
	pCi/L	CR3	12/03/2002	0001	B	17.55	U	#	8.1	± 6.09	
pCi/L	CR3-001	12/03/2002	0001	B	U	10.42		#	8.05	± 5.44	
	CR4	12/03/2002	0001	B	U	7.51		#	7.38	± 4.80	

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/29/2003 11:13 am

PARAMETER	UNITS	LOCATION	SAMPLE:			QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
			ID	DATE	ID	RESULT	LAB	DATA QA		
Gross Alpha	pCi/L	CR5	12/03/2002	0001		7.38	UB		#	7.38 ± 4.59
	pCi/L	CRA	12/06/2002	0001		182.37			#	11.8 ± 19.9
	pCi/L	CRC	12/03/2002	0001		14.08	B	U	#	8.04 ± 5.76
	pCi/L	CRD	12/03/2002	0001		7.4	UB		#	7.4 ± 4.48
	pCi/L	CRE	12/03/2002	0001		8.45	B	U	#	7.38 ± 4.88
Gross Beta	pCi/L	0201	12/03/2002	0001		9.91			#	6.88 ± 4.34
	pCi/L	0204	12/06/2002	0001		14.85			#	9.22 ± 6.01
	pCi/L	0204	12/06/2002	0002		11.76			#	9.23 ± 5.86
	pCi/L	0205	12/04/2002	0001		6.86	U		#	6.86 ± 4.20
	pCi/L	CR1	12/03/2002	0001		6.87	U		#	6.87 ± 4.21
	pCi/L	CR2	12/06/2002	0001		33.18			#	10.9 ± 7.80
	pCi/L	CR2-001	12/06/2002	0001		9.19	U		#	9.19 ± 5.61
	pCi/L	CR2B	12/03/2002	0001		146.98			#	38.14 ± 27.0
	pCi/L	CR2B-001	12/03/2002	0001		8.55			#	6.91 ± 4.30
	pCi/L	CR3	12/03/2002	0001		10.86			#	7.49 ± 4.72
	pCi/L	CR3-001	12/03/2002	0001		13.35			#	7.46 ± 4.80
	pCi/L	CR4	12/03/2002	0001		7.92			#	6.88 ± 4.27
	pCi/L	CR5	12/03/2002	0001		9.39			#	6.87 ± 4.31
	pCi/L	CRA	12/06/2002	0001		67.97			#	11.54 ± 9.47
	pCi/L	CRC	12/03/2002	0001		9.94			#	7.48 ± 4.68
	pCi/L	CRD	12/03/2002	0001		6.87	U		#	6.87 ± 4.20
	pCi/L	CRE	12/03/2002	0001		8.36			#	6.88 ± 4.28
Manganese	mg/L	0201	12/03/2002	0001		0.0144 BE	J	#	0.0005	-
	mg/L	0204	12/06/2002	0001		0.0005 UE	J	#	0.0005	-
	mg/L	0204	12/06/2002	0002		0.0276 BE	J	#	0.0005	-
	mg/L	0205	12/04/2002	0001		0.0139 BE	J	#	0.0005	-
	mg/L	CR1	12/03/2002	0001		0.0136 BE	J	#	0.0005	-
	mg/L	CR2	12/06/2002	0001		0.0489 BE	J	#	0.0005	-
	mg/L	CR2-001	12/06/2002	0001		0.0235 BE	J	#	0.0005	-
	mg/L	CR2B	12/03/2002	0001		1.010 E	J	#	0.0005	-
	mg/L	CR2B-001	12/03/2002	0001		0.0216 BE	J	#	0.0005	-
	mg/L	CR3	12/03/2002	0001		0.0468 BE	J	#	0.0005	-
	mg/L	CR3-001	12/03/2002	0001		0.0461 BE	J	#	0.0005	-
	mg/L	CR4	12/03/2002	0001		0.020 BE	J	#	0.0005	-
	mg/L	CR5	12/03/2002	0001		0.0177 BE	J	#	0.0005	-
	mg/L	CRA	12/06/2002	0001		0.0279 BE	J	#	0.0005	-
	mg/L	CRC	12/03/2002	0001		0.0401 BE	J	#	0.0005	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/29/2003 11:13 am

PARAMETER	UNITS	LOCATION		SAMPLE: ID	DATE	RESULT	QUALIFIERS:			DETECTION LIMIT	UN- CERTAINTY
		ID	LAB				DATA	QA			
Manganese	mg/L	CRD	12/03/2002	0001		0.0214 BE	J	#	0.0005	-	
	mg/L	CRE	12/03/2002	0001		0.0155 BE	J	#	0.0005	-	
Molybdenum	mg/L	0201	12/03/2002	0001		0.009 U		#	0.009	-	
	mg/L	0204	12/06/2002	0001		0.009 U		#	0.009	-	
	mg/L	0204	12/06/2002	0002		0.009 U		#	0.009	-	
	mg/L	0205	12/04/2002	0001		0.009 U		#	0.009	-	
	mg/L	CR1	12/03/2002	0001		0.009 U		#	0.009	-	
	mg/L	CR2	12/06/2002	0001		0.0152 B		#	0.009	-	
	mg/L	CR2-001	12/06/2002	0001		0.009 U		#	0.009	-	
	mg/L	CR2B	12/03/2002	0001		0.168		#	0.009	-	
	mg/L	CR2B-	12/03/2002	0001	001	0.009 U		#	0.009	-	
	mg/L	CR3	12/03/2002	0001		0.009 U		#	0.009	-	
	mg/L	CR3-001	12/03/2002	0001		0.009 U		#	0.009	-	
	mg/L	CR4	12/03/2002	0001		0.009 U		#	0.009	-	
	mg/L	CR5	12/03/2002	0001		0.009 U		#	0.009	-	
	mg/L	CRA	12/06/2002	0001		0.009 U		#	0.009	-	
	mg/L	CRC	12/03/2002	0001		0.009 U		#	0.009	-	
	mg/L	CRD	12/03/2002	0001		0.009 U		#	0.009	-	
	mg/L	CRE	12/03/2002	0001		0.009 U		#	0.009	-	
Oxidation Reduction Potent	mV	0201	12/03/2002	N001		90.4		#	-	-	
	mV	0204	12/06/2002	N001		167		#	-	-	
	mV	0205	12/04/2002	N001		219		#	-	-	
	mV	CR1	12/03/2002	N001		122		#	-	-	
	mV	CR2	12/06/2002	N001		138		#	-	-	
	mV	CR2-001	12/06/2002	N001		135		#	-	-	
	mV	CR2B	12/03/2002	N001		69.6		#	-	-	
	mV	CR2B-	12/03/2002	N001	001	43		#	-	-	
	mV	CR3	12/03/2002	N001		2.5		#	-	-	
	mV	CR3-001	12/03/2002	N001		11.1		#	-	-	
	mV	CR4	12/03/2002	N001		208		#	-	-	
	mV	CR5	12/03/2002	N001		44		#	-	-	
	mV	CRA	12/06/2002	N001		164		#	-	-	
	mV	CRC	12/03/2002	N001		149		#	-	-	
	mV	CRD	12/03/2002	N001		20.8		#	-	-	
	mV	CRE	12/03/2002	N001		54		#	-	-	
pH	s.u.	0201	12/03/2002	N001		8.28		#	-	-	
	s.u.	0204	12/06/2002	N001		7.89		#	-	-	

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/29/2003 11:13 am

PARAMETER	UNITS	LOCATION		SAMPLE:		RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
		ID	DATE	ID			LAB	DATA	QA		
pH	s.u.	0205	12/04/2002	N001		8.18		#		-	-
	s.u.	CR1	12/03/2002	N001		8.02		#		-	-
	s.u.	CR2	12/06/2002	N001		8.35		#		-	-
	s.u.	CR2-001	12/06/2002	N001		8.42		#		-	-
	s.u.	CR2B	12/03/2002	N001		7.55		#		-	-
	s.u.	CR2B-	12/03/2002	N001	001	8.39		#		-	-
	s.u.	CR3	12/03/2002	N001		8.37		#		-	-
	s.u.	CR3-001	12/03/2002	N001		8.44		#		-	-
	s.u.	CR4	12/03/2002	N001		8.16		#		-	-
	s.u.	CR5	12/03/2002	N001		8.4		#		-	-
	s.u.	CRA	12/06/2002	N001		8.4		#		-	-
	s.u.	CRC	12/03/2002	N001		8.31		#		-	-
	s.u.	CRD	12/03/2002	N001		8.45		#		-	-
	s.u.	CRE	12/03/2002	N001		8.38		#		-	-
Selenium	mg/L	0201	12/03/2002	0001		0.0077		#	0.0001	-	-
	mg/L	0204	12/06/2002	0001		0.0061		#	0.0001	-	-
	mg/L	0204	12/06/2002	0002		0.0062		#	0.0001	-	-
	mg/L	0205	12/04/2002	0001		0.0063		#	0.0001	-	-
	mg/L	CR1	12/03/2002	0001		0.0079		#	0.0001	-	-
	mg/L	CR2	12/06/2002	0001		0.0063		#	0.0001	-	-
	mg/L	CR2-001	12/06/2002	0001		0.006		#	0.0001	-	-
	mg/L	CR2B	12/03/2002	0001		0.0066		#	0.0001	-	-
	mg/L	CR2B-	12/03/2002	0001	001	0.0068		#	0.0001	-	-
	mg/L	CR3	12/03/2002	0001		0.007		#	0.0001	-	-
	mg/L	CR3-001	12/03/2002	0001		0.0075		#	0.0001	-	-
	mg/L	CR4	12/03/2002	0001		0.0076		#	0.0001	-	-
	mg/L	CR5	12/03/2002	0001		0.0076		#	0.0001	-	-
	mg/L	CRA	12/06/2002	0001		0.0067		#	0.0001	-	-
	mg/L	CRC	12/03/2002	0001		0.0077		#	0.0001	-	-
	mg/L	CRD	12/03/2002	0001		0.0077		#	0.0001	-	-
	mg/L	CRE	12/03/2002	0001		0.0077		#	0.0001	-	-
Specific Conductance	umhos/cm	0201	12/03/2002	N001		1475		#	-	-	-
	umhos/cm	0204	12/06/2002	N001		1393		#	-	-	-
	umhos/cm	0205	12/04/2002	N001		1678		#	-	-	-
	umhos/cm	CR1	12/03/2002	N001		1444		#	-	-	-
	umhos/cm	CR2	12/06/2002	N001		1607		#	-	-	-
	umhos/cm	CR2-001	12/06/2002	N001		1420		#	-	-	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/29/2003 11:13 am

PARAMETER	UNITS	LOCATION		SAMPLE ID	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
		ID	DATE			LAB	DATA	QA		
Specific Conductance	umhos/cm	CR2B	12/03/2002	N001	3839	#	-	-	-	-
	umhos/cm	CR2B-001	12/03/2002	N001	1522	#	-	-	-	-
	umhos/cm	CR3	12/03/2002	N001	1767	#	-	-	-	-
	umhos/cm	CR3-001	12/03/2002	N001	1729	#	-	-	-	-
	umhos/cm	CR4	12/03/2002	N001	1569	#	-	-	-	-
	umhos/cm	CR5	12/03/2002	N001	1492	#	-	-	-	-
	umhos/cm	CRA	12/06/2002	N001	1466	#	-	-	-	-
	umhos/cm	CRC	12/03/2002	N001	1736	#	-	-	-	-
	umhos/cm	CRD	12/03/2002	N001	1275	#	-	-	-	-
	umhos/cm	CRE	12/03/2002	N001	1470	#	-	-	-	-
Strontium	mg/L	0201	12/03/2002	0001	1.460	#	0.0005	-	-	-
	mg/L	0204	12/06/2002	0001	0.0005 U	#	0.0005	-	-	-
	mg/L	0204	12/06/2002	0002	2.690	#	0.0005	-	-	-
	mg/L	0205	12/04/2002	0001	1.400	#	0.0005	-	-	-
	mg/L	CR1	12/03/2002	0001	1.450	#	0.0005	-	-	-
	mg/L	CR2	12/06/2002	0001	1.450	#	0.0005	-	-	-
	mg/L	CR2-001	12/06/2002	0001	1.340	#	0.0005	-	-	-
	mg/L	CR2B	12/03/2002	0001	4.260	#	0.0005	-	-	-
	mg/L	CR2B-001	12/03/2002	0001	1.430	#	0.0005	-	-	-
	mg/L	CR3	12/03/2002	0001	1.520	#	0.0005	-	-	-
	mg/L	CR3-001	12/03/2002	0001	1.500	#	0.0005	-	-	-
	mg/L	CR4	12/03/2002	0001	1.450	#	0.0005	-	-	-
	mg/L	CR5	12/03/2002	0001	1.450	#	0.0005	-	-	-
	mg/L	CRA	12/06/2002	0001	1.430	#	0.0005	-	-	-
	mg/L	CRC	12/03/2002	0001	1.500	#	0.0005	-	-	-
	mg/L	CRD	12/03/2002	0001	1.460	#	0.0005	-	-	-
	mg/L	CRE	12/03/2002	0001	1.460	#	0.0005	-	-	-
Sulfate	mg/L	0201	12/03/2002	0001	432.000	#	0.394	-	-	-
	mg/L	0204	12/06/2002	0001	378.000	#	0.394	-	-	-
	mg/L	0204	12/06/2002	0002	390.000	#	0.394	-	-	-
	mg/L	0205	12/04/2002	0001	393.000	#	0.394	-	-	-
	mg/L	CR1	12/03/2002	0001	439.000	#	0.394	-	-	-
	mg/L	CR2	12/06/2002	0001	453.000	#	0.394	-	-	-
	mg/L	CR2-001	12/06/2002	0001	386.000	#	0.394	-	-	-
	mg/L	CR2B	12/03/2002	0001	3090.000	#	1.97	-	-	-
	mg/L	CR2B-001	12/03/2002	0001	449.000	#	0.394	-	-	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/29/2003 11:13 am

PARAMETER	UNITS	LOCATION		SAMPLE: ID	RESULT	QUALIFIERS:			DETECTION LIMIT	UN- CERTAINTY
		ID	DATE			LAB	DATA	QA		
Sulfate	mg/L	CR3	12/03/2002	0001	469.000		#		0.394	-
	mg/L	CR3-001	12/03/2002	0001	482.000		#		0.394	-
	mg/L	CR4	12/03/2002	0001	455.000		#		0.394	-
	mg/L	CR5	12/03/2002	0001	443.000		#		0.394	-
	mg/L	CRA	12/06/2002	0001	424.000		#		0.394	-
	mg/L	CRC	12/03/2002	0001	478.000		#		0.394	-
	mg/L	CRD	12/03/2002	0001	444.000		#		0.394	-
	mg/L	CRE	12/03/2002	0001	439.000		#		0.394	-
Temperature	C	0201	12/03/2002	N001	3.55		#		-	-
	C	0204	12/06/2002	N001	4.78		#		-	-
	C	0205	12/04/2002	N001	5.44		#		-	-
	C	CR1	12/03/2002	N001	3.65		#		-	-
	C	CR2	12/06/2002	N001	7.01		#		-	-
	C	CR2-001	12/06/2002	N001	5.1		#		-	-
	C	CR2B	12/03/2002	N001	10.79		#		-	-
	C	CR2B-001	12/03/2002	N001	4.52		#		-	-
	C	CR3	12/03/2002	N001	6.01		#		-	-
	C	CR3-001	12/03/2002	N001	5.56		#		-	-
	C	CR4	12/03/2002	N001	4.76		#		-	-
	C	CR5	12/03/2002	N001	3.99		#		-	-
	C	CRA	12/06/2002	N001	5.31		#		-	-
	C	CRC	12/03/2002	N001	5.23		#		-	-
	C	CRD	12/03/2002	N001	5.47		#		-	-
	C	CRE	12/03/2002	N001	3.75		#		-	-
Total Dissolved Solids	mg/L	0201	12/03/2002	0001	1070		#		10	-
	mg/L	0204	12/06/2002	0001	1020		#		10	-
	mg/L	0204	12/06/2002	0002	1020		#		10	-
	mg/L	0205	12/04/2002	0001	1060		#		10	-
	mg/L	CR1	12/03/2002	0001	1060		#		10	-
	mg/L	CR2	12/06/2002	0001	1160		#		10	-
	mg/L	CR2-001	12/06/2002	0001	1020		#		10	-
	mg/L	CR2B	12/03/2002	0001	6030		#		10	-
	mg/L	CR2B-001	12/03/2002	0001	1080		#		10	-
	mg/L	CR3	12/03/2002	0001	1210		#		10	-
	mg/L	CR3-001	12/03/2002	0001	1150		#		10	-
	mg/L	CR4	12/03/2002	0001	1100		#		10	-
	mg/L	CR5	12/03/2002	0001	1080		#		10	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/29/2003 11:13 am

PARAMETER	UNITS	LOCATION	SAMPLE:			QUALIFIERS:	DETECTION	UN-
			ID	DATE	ID			
Total Dissolved Solids	mg/L	CRA	12/06/2002	0001	1120	#	10	-
	mg/L	CRC	12/03/2002	0001	1190	#	10	-
	mg/L	CRD	12/03/2002	0001	1100	#	10	-
	mg/L	CRE	12/03/2002	0001	1060	#	10	-
Turbidity	NTU	0201	12/03/2002	N001	8.77	#	-	-
	NTU	0204	12/06/2002	N001	9.42	#	-	-
	NTU	0205	12/04/2002	N001	6.37	#	-	-
	NTU	CR1	12/03/2002	N001	9.37	#	-	-
	NTU	CR2	12/06/2002	N001	33.8	#	-	-
	NTU	CR2-001	12/06/2002	N001	293	#	-	-
	NTU	CR2B	12/03/2002	N001	14.5	#	-	-
	NTU	CR2B-001	12/03/2002	N001	10.6	#	-	-
	NTU	CR3	12/03/2002	N001	13.2	#	-	-
	NTU	CR3-001	12/03/2002	N001	9.34	#	-	-
	NTU	CR4	12/03/2002	N001	8.37	#	-	-
	NTU	CR5	12/03/2002	N001	11	#	-	-
	NTU	CRA	12/06/2002	N001	22.8	#	-	-
	NTU	CRC	12/03/2002	N001	11.8	#	-	-
	NTU	CRD	12/03/2002	N001	130	#	-	-
	NTU	CRE	12/03/2002	N001	9.52	#	-	-
Uranium	mg/L	0201	12/03/2002	0001	0.0086	#	0.0001	-
	mg/L	0204	12/06/2002	0001	0.0322	#	0.0001	-
	mg/L	0204	12/06/2002	0002	0.029	#	0.0001	-
	mg/L	0205	12/04/2002	0001	0.0072	#	0.0001	-
	mg/L	CR1	12/03/2002	0001	0.0078	#	0.0001	-
	mg/L	CR2	12/06/2002	0001	0.093	#	0.0001	-
	mg/L	CR2-001	12/06/2002	0001	0.0155	#	0.0001	-
	mg/L	CR2B	12/03/2002	0001	0.732	#	0.0001	-
	mg/L	CR2B-001	12/03/2002	0001	0.0186	#	0.0001	-
	mg/L	CR3	12/03/2002	0001	0.0257	#	0.0001	-
	mg/L	CR3-001	12/03/2002	0001	0.0246	#	0.0001	-
	mg/L	CR4	12/03/2002	0001	0.012	#	0.0001	-
	mg/L	CR5	12/03/2002	0001	0.010	#	0.0001	-
	mg/L	CRA	12/06/2002	0001	0.268	#	0.0001	-
	mg/L	CRC	12/03/2002	0001	0.0195	#	0.0001	-
	mg/L	CRD	12/03/2002	0001	0.0112	#	0.0001	-
	mg/L	CRE	12/03/2002	0001	0.009	#	0.0001	-

SURFACE WATER QUALITY DATA BY PARAMETER (USEE800) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/29/2003 11:13 am

PARAMETER	UNITS	LOCATION ID	SAMPLE: DATE	ID	RESULT	QUALIFIERS:			DETECTION LIMIT	UN-CERTAINTY
						LAB	DATA	QA		
Velocity	FPS	0201	12/03/2002	N001	1.0			#	-	-
	FPS	CR3-001	12/03/2002	N001	0.5			#	-	-

RECORDS: SELECTED FROM USEE800 WHERE site\_code='MOA01' AND quality\_assurance = TRUE AND (data\_validation\_qualifiers IS NULL OR data\_validation\_qualifiers NOT LIKE '%R%' AND data\_validation\_qualifiers NOT LIKE '%X%') AND DATE\_SAMPLED between #12/2/2002# and #12/12/2002#

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.
- > Result above upper detection limit.
- A TIC is a suspected aldol-condensation product.
- B Inorganic: Result is between the IDL and CRDL. Organic: Analyte also found in method blank.
- C Pesticide result confirmed by GC-MS.
- D Analyte determined in diluted sample.
- E Inorganic: Estimate value because of interference, see case narrative. Organic: Analyte exceeded calibration range of the GC-MS.
- H Holding time expired, value suspect.
- I Increased detection limit due to required dilution.
- J Estimated
- M GFAA duplicate injection precision not met.
- N Inorganic or radiochemical: Spike sample recovery not within control limits. Organic: Tentatively identified compound (TIC).
- P > 25% difference in detected pesticide or Arochlor concentrations between 2 columns.
- 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.
- X Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Y Laboratory defined (USEPA CLP organic) qualifier, see case narrative.
- Z Laboratory defined (USEPA CLP organic) qualifier, see case narrative.

DATA QUALIFIERS:

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

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

## BLANKS REPORT

LAB REQUISITION(S): 18241

REPORT DATE: 01/28/03 09:37:05 AM

PARAMETER	SITE CODE	LOCATION ID	SAMPLE			QUALIFIERS	DETECTION LIMIT	UNCERTAINTY	SAMPLE TYPE
			DATE	ID	UNITS				
Ammonium	MOA01	0999	12/05/2002	0001	mg/L	0.004	U	J	E
Ammonium	MOA01	0999	12/11/2002	0001	mg/L	0.004	U		E
Ammonium	MOA01	0999	12/11/2002	0002	mg/L	0.004	U		E
Arsenic	MOA01	0999	12/11/2002	0001	mg/L	0.0001	U		E
Arsenic	MOA01	0999	12/11/2002	0002	mg/L	0.0001	U		E
Barium	MOA01	0999	12/05/2002	0001	mg/L	0.002	UE	J	E
Boron	MOA01	0999	12/05/2002	0001	mg/L	0.019	U		E
Boron	MOA01	0999	12/11/2002	0001	mg/L	0.019	U		E
Boron	MOA01	0999	12/11/2002	0002	mg/L	0.019	U		E
Cadmium	MOA01	0999	12/11/2002	0001	mg/L	0.0001	U		E
Cadmium	MOA01	0999	12/11/2002	0002	mg/L	0.0001	U		E
Chloride	MOA01	0999	12/05/2002	0001	mg/L	0.0401	U		E
Chloride	MOA01	0999	12/11/2002	0001	mg/L	0.0401	U		E
Chloride	MOA01	0999	12/11/2002	0002	mg/L	0.0401	U		E
Fluoride	MOA01	0999	12/11/2002	0001	mg/L	0.0439	B	U	E
Fluoride	MOA01	0999	12/11/2002	0002	mg/L	0.0251	U		E
Gross Alpha	MOA01	0999	12/05/2002	0001	pCi/L	2.63	UB		E
Gross Alpha	MOA01	0999	12/11/2002	0001	pCi/L	1.75	U		E
Gross Alpha	MOA01	0999	12/11/2002	0002	pCi/L	1.76	U		E
Gross Beta	MOA01	0999	12/05/2002	0001	pCi/L	4.35	U		E
Gross Beta	MOA01	0999	12/11/2002	0001	pCi/L	2.9	U		E
Gross Beta	MOA01	0999	12/11/2002	0002	pCi/L	2.9	U		E
Iron	MOA01	0999	12/11/2002	0001	mg/L	0.0075	U		E
Iron	MOA01	0999	12/11/2002	0002	mg/L	0.0075	U		E
Lithium	MOA01	0999	12/11/2002	0001	mg/L	0.0025	UE	J	E
Lithium	MOA01	0999	12/11/2002	0002	mg/L	0.0025	UE	J	E

## BLANKS REPORT

LAB REQUISITION(S): 18241

REPORT DATE: 01/28/03 09:37:10 AM

PARAMETER	SITE CODE	LOCATION ID	SAMPLE DATE	ID	UNITS	RESULT	QUALIFIERS	DETECTION LIMIT	UNCERTAINTY	SAMPLE TYPE
							LAB DATA			
Manganese	MOA01	0999	12/05/2002	0001	mg/L	0.0005	UE	J	0.0005	E
Manganese	MOA01	0999	12/11/2002	0001	mg/L	0.0005	U		0.0005	E
Manganese	MOA01	0999	12/11/2002	0002	mg/L	0.00056	B		0.0005	E
Molybdenum	MOA01	0999	12/05/2002	0001	mg/L	0.009	U		0.009	E
Molybdenum	MOA01	0999	12/11/2002	0001	mg/L	0.009	U		0.009	E
Molybdenum	MOA01	0999	12/11/2002	0002	mg/L	0.009	U		0.009	E
Nitrate as NO <sub>3</sub>	MOA01	0999	12/11/2002	0001	mg/L	0.184	B		0.02	E
Nitrate as NO <sub>3</sub>	MOA01	0999	12/11/2002	0002	mg/L	1.08			0.02	E
Radium-226	MOA01	0999	12/11/2002	0001	pCi/L	0.16	U		0.16	0.08
Radium-226	MOA01	0999	12/11/2002	0002	pCi/L	0.16	U		0.16	0.08
Radium-228	MOA01	0999	12/11/2002	0001	pCi/L	0.97	U		0.97	0.56
Radium-228	MOA01	0999	12/11/2002	0002	pCi/L	0.91	U		0.91	0.53
Selenium	MOA01	0999	12/05/2002	0001	mg/L	0.0001	U		0.0001	E
Selenium	MOA01	0999	12/11/2002	0001	mg/L	0.0001	U		0.0001	E
Selenium	MOA01	0999	12/11/2002	0002	mg/L	0.0001	U		0.0001	E
Sodium	MOA01	0999	12/11/2002	0001	mg/L	1.38	B		0.026	E
Sodium	MOA01	0999	12/11/2002	0002	mg/L	0.837	B		0.026	E
Specific Gravity	MOA01	0999	12/11/2002	0001		1				E
Specific Gravity	MOA01	0999	12/11/2002	0002		1				E
Strontium	MOA01	0999	12/05/2002	0001	mg/L	0.0016	B		0.0005	E
Strontium	MOA01	0999	12/11/2002	0001	mg/L	0.0024	B		0.0005	E
Strontium	MOA01	0999	12/11/2002	0002	mg/L	0.00075	B	U	0.0005	E
Sulfate	MOA01	0999	12/05/2002	0001	mg/L	0.0394	U		0.0394	E
Sulfate	MOA01	0999	12/11/2002	0001	mg/L	0.0394	U		0.0394	E
Sulfate	MOA01	0999	12/11/2002	0002	mg/L	0.0394	U		0.0394	E
Total Dissolved Solids	MOA01	0999	12/05/2002	0001	mg/L	27			10	E

## BLANKS REPORT

LAB REQUISITION(S): 18241

REPORT DATE: 01/28/03 09:37:10 AM

PARAMETER	SITE CODE	LOCATION ID	SAMPLE DATE	ID	UNITS	RESULT	QUALIFIERS	DETECTION LIMIT	UNCERTAINTY	SAMPLE TYPE
							LAB DATA			
Total Dissolved Solids	MOA01	0999	12/11/2002	0001	mg/L	12		10		E
Total Dissolved Solids	MOA01	0999	12/11/2002	0002	mg/L	12		10		E
Uranium	MOA01	0999	12/05/2002	0001	mg/L	0.0001	U	0.0001		E
Uranium	MOA01	0999	12/11/2002	0001	mg/L	0.0001	U	0.0001		E
Uranium	MOA01	0999	12/11/2002	0002	mg/L	0.0001	U	0.0001		E
Vanadium	MOA01	0999	12/11/2002	0001	mg/L	0.002	U	0.002		E
Vanadium	MOA01	0999	12/11/2002	0002	mg/L	0.002	U	0.002		E

## BLANKS REPORT

LAB REQUISITION(S): 18241

REPORT DATE: 01/28/03 09:37:11: AM

PARAMETER	SITE CODE	LOCATION ID	SAMPLE DATE	SAMPLE ID	UNITS	RESULT	QUALIFIERS LAB	DETECTION LIMIT	SAMPLE UNCERTAINTY	SAMPLE TYPE
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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.
- J Estimated

## 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.       | Q Qualitative result due to sampling technique |   |

## SAMPLE TYPES:

- |                     |                |                                 |
|---------------------|----------------|---------------------------------|
| AK ANALYTICAL KNOWN | D DUPLICATE    | E EQUIPMENT BLANK               |
| F FIELD SAMPLE      | FB FIELD BLANK | FR FIELD SAMPLE WITH REPLICATES |
| K KNOWN             | L LABORATORY   | N NOT KNOWN                     |
| R REPLICATE         | TB TRIP BLANK  | TK THEORETICAL KNOWN            |
| XB EXTRACTION BLANK |                |                                 |

# **WATER LEVELS**

STATIC GROUND WATER LEVELS (USEE700) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/29/2003 11:14 am

LOCATION CODE	FLOW CODE	TOP OF CASING ELEVATION (FT NGVD)	MEASUREMENT		DEPTH FROM TOP OF CASING (FT)	GROUND WATER ELEVATION (FT NGVD)	WATER LEVEL FLAG
			DATE	TIME			
0401	O	3969.60	12/02/2002	14:48	16.20	3953.40	
0402	O	3968.63	12/02/2002	14:46	15.74	3952.89	
0403	O	3968.95	12/02/2002	14:43	16.42	3952.53	
0404	O	3968.30	12/02/2002	14:52	14.51	3953.79	
0405	O	3968.47	12/02/2002	14:56	14.75	3953.72	
0406	O	3969.91	12/02/2002	14:59	16.02	3953.89	
0407	O	3969.09	12/02/2002	14:40	17.06	3952.03	
0408	O	3969.17	12/02/2002	14:48	15.74	3953.43	
0409	O	3969.03	12/02/2002	14:54	15.34	3953.69	
0410	O	3979.11	12/02/2002	13:59	23.27	3955.84	
0411	O	3964.88	12/02/2002	13:45	8.84	3956.04	
0412	O	3965.76	12/02/2002	13:34	11.09	3954.67	
0413	O	3965.33	12/02/2002	13:40	9.90	3955.43	
0414	O	3963.20	12/02/2002	13:37	8.79	3954.41	
0430	U	4022.10	12/02/2002	13:40	60.42	3961.68	
0431	O	4007.04	12/02/2002	14:30	47.94	3959.10	
0432	U	4001.47	12/02/2002	13:32	42.30	3959.17	
0433	O	3989.99	12/02/2002	13:47	31.78	3958.21	
0434	U	3990.21	12/02/2002	13:24	34.34	3955.87	
0435	O	3971.67	12/02/2002	14:05	14.54	3957.13	
0436	O	3970.80	12/02/2002	13:50	10.36	3960.44	
0437	O	4048.25	12/02/2002	15:45	89.98	3958.27	
0438	O	4054.22	12/02/2002	15:40	97.32	3956.90	
0439	O	4055.27	12/02/2002	15:34	98.81	3956.46	
0440	O	4070.71	12/02/2002	14:45	111.82	3958.89	
0442	O	4022.78	12/02/2002	14:50	-	D	
0443	O	4006.72	12/02/2002	14:32	47.12	3959.60	
0444	O	3970.99	12/02/2002	14:03	14.82	3956.17	
0449	O	3967.99	12/02/2002	15:16	13.86	3954.13	
0450	O	3968.16	12/02/2002	15:18	14.00	3954.16	

STATIC GROUND WATER LEVELS (USEE700) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/29/2003 11:14 am

LOCATION CODE	FLOW CODE	TOP OF CASING ELEVATION (FT NGVD)	MEASUREMENT		DEPTH FROM TOP OF CASING (FT)	GROUND WATER ELEVATION (FT NGVD)	WATER LEVEL FLAG
			DATE	TIME			
0455	O	3990.20	12/02/2002	13:46	32.18	3958.02	
0456	U	3990.46	12/02/2002	13:25	34.62	3955.84	
0457	O	3971.30	12/02/2002	14:02	15.62	3955.68	
0458	O	4046.57	12/02/2002	15:44	88.44	3958.13	
0459	O	4055.02	12/02/2002	15:33	98.81	3956.21	
0460	O	3968.40	12/02/2002	15:14	14.27	3954.13	
0461	O	3968.25	12/02/2002	15:12	14.11	3954.14	
0462	O	3968.14	12/02/2002	15:20	14.00	3954.14	
0463	O	3968.36	12/02/2002	15:15	14.26	3954.10	
A-1	O	4045.46	12/02/2002	15:55		-	D
AMM-1	U	3972.02	12/02/2002	13:06	16.86	3955.16	
AMM-2	O	3967.74	12/02/2002	15:20	13.74	3954.00	
AMM-3	O	3967.69	12/02/2002	15:45	13.21	3954.48	
ATP-1-D	O	3970.73	12/02/2002	16:00	21.11	3949.62	
ATP-1-ID	O	3970.87	12/02/2002	16:00	20.56	3950.31	
ATP-1-IS	O	3971.00	12/02/2002	16:00	20.27	3950.73	
ATP-1-S	O	3971.14	12/02/2002	16:00	19.45	3951.69	
ATP-2-D	O	3967.05	12/02/2002	15:53	15.19	3951.86	
ATP-2-S	O	3967.04	12/02/2002	15:52	12.52	3954.52	
ATP-3	O	3998.29	12/02/2002	14:25	39.11	3959.38	
B-16	O	4044.01	12/02/2002	15:57		-	D
EE-3	O	4058.82	12/02/2002	15:52	61.02	3997.80	
MW-1-R	O	3964.35	12/02/2002	15:47	9.98	3954.37	
MW-2-R	O	3966.70	12/02/2002	15:55		-	D
MW-3	O	3969.21	12/02/2002	16:05	15.24	3953.97	
NE-MILL	O	3981.45	12/02/2002	14:01	27.00	3954.45	
OW-1	O	3966.94	12/02/2002	15:54	12.34	3954.60	
OW-2	O	3966.85	12/02/2002	15:55	12.34	3954.51	
OW-3	O	3966.20	12/02/2002	15:51	11.61	3954.59	
OW-4	O	3965.50	12/02/2002	15:50	10.88	3954.62	

STATIC GROUND WATER LEVELS (USEE700) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/29/2003 11:14 am

LOCATION CODE	FLOW CODE	TOP OF CASING ELEVATION (FT NGVD)	MEASUREMENT		DEPTH FROM TOP OF CASING (FT)	GROUND WATER ELEVATION (FT NGVD)	WATER LEVEL FLAG
			DATE	TIME			
PW-1	O	4058.13	12/02/2002	16:22		-	
PW-11	O	4058.12	12/02/2002	16:20	36.08	4022.04	
PW-12	O	4053.25	12/02/2002		30.24	4023.01	
PW-13	O	4059.08	12/02/2002	15:49		-	D
PW-3	O	4056.26	12/02/2002	16:25		-	D
PW-4	O	4055.82	12/02/2002	16:05	32.75	4023.07	
PW-4-OB-A	O	4055.28	12/02/2002	16:02	31.16	4024.12	
PW-4-OB-B	O	4054.19	12/02/2002	16:04		-	D
PW-5	O	4056.62	12/02/2002	16:15		-	D
PW-6	O	4053.01	12/02/2002	16:18		-	
PW-7	O	4058.42	12/02/2002			-	
PW-8	O	4059.09	12/02/2002	16:00	33.72	4025.37	
PW-9	O	4054.74	12/02/2002			-	
RW-01	U	4021.81	12/02/2002	13:37	60.14	3961.67	
SMI-MW01	O	3968.32	12/02/2002	13:31	13.95	3954.37	
SMI-PW01	O	3968.45	12/02/2002	15:18	14.26	3954.19	
SMI-PW02	O	3967.48	12/02/2002	15:33	13.95	3953.53	
SMI-PW03	O	3975.04	12/02/2002	13:58	19.25	3955.79	
SMI-PZ1D	O	3968.38	12/02/2002	15:15	14.69	3953.69	
SMI-PZ1M	O	3968.29	12/02/2002	15:17	14.18	3954.11	
SMI-PZ1S	O	3969.13	12/02/2002	15:10	15.06	3954.07	
SMI-PZ2D	O	3967.38	12/02/2002	15:31	15.49	3951.89	
SMI-PZ2M1	O	3967.50	12/02/2002	15:25	14.95	3952.55	
SMI-PZ2M2	O	3967.18	12/02/2002	15:30	14.52	3952.66	
SMI-PZ3D2	O	3975.13	12/02/2002	13:55	19.72	3955.41	
SMI-PZ3M	O	3975.23	12/02/2002	13:54	19.42	3955.81	
SMI-PZ3S	O	3975.03	12/02/2002	13:52	19.27	3955.76	
TH-25	O	3990.04	12/02/2002	13:50	32.18	3957.86	
TP-01	O	3969.39	12/02/2002	13:20	15.16	3954.23	
TP-02	O	3975.55	12/02/2002	13:27	21.38	3954.17	

STATIC GROUND WATER LEVELS (USEE700) FOR SITE MOA01, MOAB  
 REPORT DATE: 1/29/2003 11:14 am

LOCATION CODE	FLOW CODE	TOP OF CASING ELEVATION (FT NGVD)	MEASUREMENT		DEPTH FROM TOP OF CASING (FT)	GROUND WATER ELEVATION (FT NGVD)	WATER LEVEL FLAG
			DATE	TIME			
TP-06	O	3961.71	12/02/2002	15:36	-	-	D
TP-07	O	3965.72	12/02/2002	15:35	12.82	3952.90	
TP-08	O	3966.57	12/02/2002	15:34	13.36	3953.21	
TP-09	O	3967.38	12/02/2002	15:22	13.60	3953.78	
TP-11	O	3967.51	12/02/2002	13:10	13.24	3954.27	
TP-17	D	3963.69	12/02/2002	14:33	12.64	3951.05	
TP-18	D	3963.63	12/02/2002	14:28	13.27	3950.36	
TP-19	D	3962.17	12/02/2002	14:23	12.33	3949.84	
TP-20	D	3967.55	12/02/2002	14:13	16.01	3951.54	
TP-21	D	3964.64	12/02/2002	14:20	-	-	
UNK1	O	3966.10	12/02/2002	13:15	-	-	D
UNK2	O	3974.64	12/02/2002	14:06	-	-	D
UNK3	O	-	12/02/2002	13:55	39.92	-39.92	
UNKNOWN A	O	-	12/02/2002	15:48	-	-	D

RECORDS: SELECTED FROM USEE700 WHERE site\_code='MOA01' AND LOG\_DATE between #12/2/2002# and #12/12/2002#

FLOW CODES: D DOWN GRADIENT O ON-SITE

U UPGRAIDENT

WATER LEVEL FLAGS:

D Dry

# **TRIP REPORT/WORK ORDER**

# *Stoller*

---

Grand Junction Office

*established 1959*

## *Memorandum*

DATE: January 7, 2003

Control Number N/A

TO: K. E. Karp

FROM: D. G. Traub

SUBJECT: Moab Site Water Sampling Trip Report

Site: Moab

**Dates of Sampling Event:** December 2 through December 12, 2002

**Team Members:** Dave Traub, Tony Franzone, Jeff Price, and Steve Back

**Trip Summary:** A total of 57 ground water and 16 surface water samples were collected in December. Water level data were collected from 16 surface and 51 ground water locations at the Moab millsite and adjacent areas. Water levels were measured at all site wells. Two new surface water locations were added to the sampling list during the event and are included in the totals above. Several of the wells scheduled for sampling were dry. Specific information on these wells is detailed below.

**Locations Not Sampled/Reason:** Wells MW-2-R and 0411 were dry. Several wells were found to recharge very slowly and at those locations no liter-size bottles were filled. Wells installed in the tailings such as PW-8, PW-10, and PW-13 were not sampled.

**Field Variance:** Several wells were sampled that did not meet the turbidity requirement. These wells are new and require further development. Several other wells that may eventually have met the turbidity standard were sampled, as there was not enough time to fill all containers and complete the sampling.

**Requisition Numbers Assigned:** The requisition number is 18241.

**Water Level Measurements:** Water level measurements were taken on all wells at the site on December 2, 2002. This information is presented in the following table.

Well ID	Water Level	Time	Comment
401	16.20	1448	
402	15.74	1446	
403	16.42	1443	
404	14.51	1452	
405	14.75	1456	
406	16.02	1459	TD 16.47
407	17.06	1440	Roots in water
408	15.74	1448	
409	15.34	1454	
410	23.27	1359	
411	8.84	1345	
412	11.09	1334	
413	9.90	1340	
414	8.79	1337	
430	60.42	1340	
431	47.94	1430	
432	42.30	1332	
433	31.78	1347	
434	34.34	1324	
435	14.54	1405	
436	10.36	1350	
437	89.98	1545	
438	97.32	1540	
439	98.81	1534	
440	111.82	1445	
442	66.64 on 12/9/02	After sampling	(WL is below pump top)
443	47.12	1432	
444	14.82	1403	
450	14.00	1518	Top of PVC
455	32.18	1346	
456	34.62	1325	
457	15.62	1402	
458	88.44	1544	
459	98.81	1533	
A-1	Dry at 53.99	1555	
AMM-1	16.86	1306	
AMM-2	13.74	1520	
AMM-3	13.21	1545	
ATP-2-D	15.19	1553	
ATP-2-S	12.52	1552	
ATP-3	39.11	1425	
B-16	Dry at 70.14	1557	
B-28	Can't find; destroyed		
EE-2	Destroyed		Only 8" deep
EE-3	61.02	1552	
MOA01-449	13.86	1516	
MOA01-460	14.27	1514	
MOA01-461	14.11	1512	
MOA01-462	14.00	1520	
MOA01-463	14.26	1515	
MW-1R	9.98	1547	
NE-Milli	27.00	1401	

Well ID	Water Level	Time	Comment
OW-1	12.34	1554	
OW-2	12.34	1555	
OW-3	11.61	1551	
OW-41	10.88	1550	
PW01	14.26	1518	
PW-1	Obstructed at 54 ft.	1622	
PW-12	30.24		
PW-13	Dry	1549	36.93 TD
PW-3	DRY?		Not noted
PW-5	DRY?		Not noted
PW-9	DRY?		Not noted
PW-11	DRY?		Not noted
PW-4	32.75	1605	
PW-4-OB-A	31.16	1602	
PW-4-OB-B	Dry at 26.45		
PW-6	Obstructed at 45 ft.	1618	
PW-7	Obstructed at 50 ft.		
PW-8	33.72	1600	34.93 TD
PZ1D	14.69	1515	
PZ-1D	14.69	1515	
PZ1M	14.18	1517	
RW-01	60.14	1337	
SMI-MW01	13.95	1331	
SMI-PW01	19.25	1358	
SMI-PZ1S	15.06	1510	
SMI-PZ2D	15.49	1531	
SMI-PZ2M1	14.95	1525	
SMI-PZ2M2	14.52	1530	
SMI-PZ3D2	19.72	1355	
SMI-PZ3M	19.42	1354	
SMI-PZ3S	19.27	1352	
TH-25	32.18	1350	Mud at 32.18
TP-01	15.16	1320	
TP-02	21.38	1327	
TP-06	Destroyed	1536	Plugged at 6"
TP-07	12.82	1535	
TP-08	13.36	1534	
TP-09	13.60	1522	
TP-11	13.24	1310	
TP-17	12.64	1433	
TP-18	13.27	1428	
TP-19	12.33	1423	
TP-20	16.01	1413	
TP-21	Destroyed	1420	Only 2.18' deep
UNK-1	Dry	1315	
UNK-2	Dry	1406	
UNK-3	Dry at 39.92 TD	1355	
UNK-A	Dry	1548	

**Well Inspection Summary:** Well inspections were conducted on all wells. Many of the piezometers are in poor condition and poorly protected. Prior to the sampling event, all wells were painted with the correct well identification numbers.

**Quality Control Sample Cross Reference:** The following are the false identifications assigned to the quality control samples:

Sample ID	False Loc.	True Loc.	Sample Type
NDT 878	1100	AMM-1-T	Ground Water Sample Duplicate
NDT 898	1101	OW-2	Ground Water Sample Duplicate
NDT 400	1102	Equipment Blank	Small peristaltic (Price)
NDT 426	1103	Equipment Blank	Large peristaltic
NDT 944	1202	430 Top Sample	Ground Water Sample Duplicate
NDT 947	1201	Equipment Blank	Small peristaltic (Surf. Water; Traub)
NDT 903	1200	204	Surface Water Sample Duplicate

**Corrective Action:** 4.00 feet of 4-inch PVC was cut off the top of well PW-8 on top of the pile. This well had a stickup of over 8 feet and as a safety measure the stickup was cut shorter. This was usually measured by standing on the hood of a vehicle. The new stickup height is 4.10 feet above ground level.

Well ATP-3 had a section of 4-inch-diameter PVC tubing loosely attached to the well with a large round orange plastic ring. This section of loose PVC was removed when a bladder pump was dedicated in the well. This well also has a steel surface casing that is barely exposed at ground level. This well was resurveyed on 12/3/02 and the new measuring point was set on top of a secure 4-inch white PVC sleeve. The elevation of the new MP used for water levels is 3998.49 feet. This is 1.44 feet above the exposed steel casing. (See attached diagram). This well should also be cleaned out some time, as there is now fine sand inside the casing to the top of the screen. Total depth in database is 63.15, measured total depth is 53, and top of screen is 53.6.

Piezometers TP-21 and TP-06 were destroyed quite some time ago and should be so indicated in SEEPro. Also piezometers EE-2 and B-28 on top of the pile have been destroyed. There is a PVC pipe labeled UNK A that is checked for water levels but I think this is just a piece of PVC stuck in the ground to help locate MW-1-R. We should delete this UNK A from the database and pull the pipe out of the ground. It is dry just below ground level.

**Equipment:** Wells were sampled using the micro purge procedure. All wells were sampled either with a peristaltic pump with dedicated tubing or a dedicated bladder pump. Surface water samples also were collected using a peristaltic pump to filter the samples. The sump on the top of the pile was sampled using a disposable bailer as electrical repairs to the existing dedicated pump were in progress during sampling. This bailed water was filtered using a peristaltic pump. This well was sampled after all other site wells had been sampled.

**Location Specific Information:** Surface Water Samples: Two new surface water locations were sampled this event. Location 0205 is on the Colorado River just west of Courthouse Wash. This is on private property and the owner is very cautious about allowing access to the site. A wooden stake was set on the north edge of the river east of the owner's house, down the boat ramp, near some old aluminum steps. This is about 100 feet west of Courthouse Wash.

Location 0204 is slightly downriver from piezometer TP-02. A wooden stake and flagging was set so this location can be accessed from inside the millsite. The ground and riverbank near this location had several small holes that looked as if they were small springs. The soil around these holes was slightly iron stained.

Location	Date Sampled	Sample ID	Sample Starting Depth	Comments
CR1	12/3/02	NDT 926	24" deep, 10 ft. from shore	Med flow.
CR2	12/6/02	NDT 905	2" deep, 2 ft. from shore	Very slow flow
CR2-001	12/6/02	NDT 906	14" deep, 15 ft. fro shore	Slow flow; ~15' from shore
CR3	12/3/02	NDT 934	3" deep, 3 ft. from shore	Slow flow.
CR3-001	12/3/02	NDT 933	8" deep, 20 ft. from shore	Med flow. ~6"/sec flow
CR4	12/3/02	NDT 931	3" deep, 4 ft. from shore	Fast flow. ~150 ft NE of stake. N end bar.
CR5	12/3/02	NDT 929	18" deep, 5 ft. from shore	Fast flow.
CRA	12/6/02	NDT 904	3" deep, 2 ft. from shore	Slow flow
CR2B	12/3/02	NDT 935	In very slow pool	~100 ft E of stake,
CR2B-001	12/3/02	NDT 936	3" deep, 8 ft. from shore	~30 ft E of CR2B, 130 ft E of stake. Slow
CRC	12/3/02	NDT 932		
CRD	12/3/02	NDT 930	8" deep, 10 ft. from shore	Slow flow. Very flat and muddy.
CRE	12/3/02	NDT 928	12" deep, 3 ft. from shore	Fast flow.
201	12/3/02	NDT 927	6" deep, 3 ft. from shore	Med. Flow, ~1 fps.
204	12/06/02	NDT 902	6" deep, 10 ft, from shore	Slow flow, mud flat
205	12/4/02	NDT 945	18" deep, 6 ft. from shore	Med flow. Tex Property. Sampled on old BBQ grate on river bottom.

#### Ground Water Samples:

Location	Date Collected	Sample ID	Comments
410	12/4/02	NDT 892	No sample was collected. DRY?
411	12/4/02	No Sample	Not enough water to sample.
412	12/3/02	NDT 882	
414	12/3-4/02	NDT 883	Dry after 400 ml purged on 12/3, 3-125s filled 12/3, others on 12/4.
430	12/4/02	NDT 942	Top screen sample, intake at 96.5 ft.
430	12/4/02	NDT 943	Bottom screen sample, intake at 105.5 ft.
431	12/6/02	NDT 380	
432	12/5/02	NDT 949	Inlet at 55.0
433	12/5/02	NDT 950	Inlet at 99.0
434	12/05/02	NDT 946	Intake at 80.0 ft.
435	12/4/02	NDT 888	Some air in discharge line?
436	12/4/02	NDT 887	

Location	Date Collected	Sample ID	Comments
437	12/10/02	NDT 909	Inlet at 98.0 ft.
438	12/10/02	NDT 910	Inlet at 120 ft.
439	12/9/02	NDT 907	Intake at 120 ft.
440	12/6/02	NDT 382	
442	12/9/02	NDT 383	WL 66.64. WL is below bladder pump top.
443	12/6/02	NDT 381	
444	12/4/02	NDT 889	
455	12/5/02	NDT 901	Inlet at 46 ft. Both filtered and unfiltered are NDT 901
456	12/5/02	NDT 948	Both filtered and unfiltered samples are labeled NDT 948. After 2 hour purge / bottle fill, the turbidity was 19.1 NTU. Intake at 52.5 ft.
457	12/4/02	NDT 890	Filtered
457	12/4/02	NDT 891	Not Filtered
459	12/9/02	NO SAMPLE	Can't clean out 1" PVC. Need small solid pipe.
537	12/10/02	NDT 908	Used bailer to collect water, pump being repaired.
AMM-1-B	12/3/02	NDT 876	Sample intake at 55 ft. Bottom screen sample.
AMM-1-T	12/3/02	NDT 877	Sample intake at 20 ft. Top screen sample.
AMM-2-B	12/5/02	NDT 376	Bottom of screen sample, intake at 50 ft.
AMM-2-T	12/5/02	NDT 377	Top of screen sample, intake at 15 ft.
AMM-3	12/5/02	NDT 900	
ATP-1-1D	12/10/02	NDT 387	Intake is 2.5 ft above bottom (TD is 312 ft). Filtered
ATP-1-1D	12/6/02	NDT 388	Not Filtered.
ATP-1D	12/10/02	NDT 385	Filtered. Drop tube is 2.5 ft above bottom.
ATP-1D	12/10/02	NDT 386	Not filtered. Drop tube is 2.5 ft above bottom.
ATP-1S	12/9/02	NDT 384	
ATP-2-D	12/5/02	NDT 895	Could not make turbidity. Well needs redevelopment.
ATP-2-S	12/5/02	NDT 894	
ATP-3	12/6/02	NDT 379	
Matheson M11-14	12/11/02	NDT 912	Intake tubing is 45.9 ft deep. Steel stickup is 1.17 ft. plus 0.25 ft tubing stickup. WL is 10.79 ft below GL.
Matheson N7-10	12/11/02	NDT 913	Intake is 32.8 ft deep. Steel stickup is 1.40 ft plus 0.30 ft. tubing stickup. WL is 13.98 ft. below GL.
Matheson W1-7	12/11/02	NDT 911	Intake is 36 ft. deep. 1.16 ft stickup plus 0.26 tubing stick up. WL was 10.97 ft below GL.
MW-1-R	12/5/02	NDT 899	
MW-3	12/5/02	NDT 893	
OW-2	12/5/02	NDT 896	Filtered
OW-2	12/5/02	NDT 897	Not Filtered
RW01	12/4/02	NDT 941	
SMI-PZ3D2	12/4/02	NDT 884	
SMI-PZ3M	12/4/02	NDT 885	
SMI-PZ3S	12/4/02	NDT 886	
TP-01	12/3/02	NDT 880	

Location	Date Collected	Sample ID	Comments
TP-02	12/3/02	NDT 881	
TP-07	12/5/02	NDT 378	
TP-11	12/3/02	NDT 879	Could not make turbidity. (63.5 NTU at end.)
TP-17	12/3/02	NDT 937	Very silty at first.
TP-18	12/4/02	NDT 940	
TP-19	12/4/02	NDT 939	Sulfur smell, water stained tubing black
TP-20	12/4/02	NDT 938	Strong sulfur odor

**Regulatory:** None.

**Site Issues:** Well ATP-3 should be cleaned out before the next sampling event. This well has filled most of the screened interval with fine sand.

**Additional Action Required / Taken:** An attempt was made to clean out material that has filled the two 300 foot piezometers, 0458 and 0459. Total depth of 0458 was measured at 224.07 feet. Total depth of 0459 was measured at 279 feet. These are both 1-inch diameter PVC pipes, open ended to 300 feet. After installation, material came back up inside these tubes. The measured total depths agree with measurements taken in September. Several attempts were made to get tubing down to the total depth but the tubing used eventually coiled up in the piezometer and would not go further down. A  $\frac{3}{4}$ " diameter pump was used to try and collect a sample from 0459 but the pump hit an obstruction at approximately 125 feet and was removed. During retrieval the pump later became lodged about 10 feet below the surface and took quite a bit to extricate. Perhaps these tubes could be cleaned out if some  $\frac{1}{2}$  inch diameter flush threaded PVC pipe was procured; however, this was not available in December.

(DGT/lcg)  
Attachment

cc: J. D. Berwick, DOE-GJO  
D. R. Metzler, DOE-GJO  
C. I. Bahrke, Stoller  
K. E. Miller, Stoller  
L. M. Wright, Stoller  
Project File MOA 19.03 (Thru K. Sutton)



Grand Junction Office

established 1959

Task Order ST03-104  
Control Number 1000-T03-0242

December 3, 2002

Mr. Joel Berwick  
Project Manager  
U.S. Department of Energy  
Grand Junction Office  
2597 B 3/4 Road  
Grand Junction, CO 81503

SUBJECT: Contract No. DE-AC13-02GJ79491, Stoller  
December 2002 Ground Water Sampling at Moab, Utah

Reference: Task Order ST03-104

Dear Mr. Berwick:

Attached are maps and tables specifying sample locations and analytes for monitoring at the Moab, Utah, UMTRA site. Water quality data will be collected from monitor wells and near the shore of the Colorado River at this site as part of the routine UMTRA Ground Water sampling scheduled to begin the week of December 2, 2002. Additional river samples will be collected at the bottom of the main channel at selected locations. Depth to water, depth of sample, and flow velocity at each surface location will be documented.

The following lists show the monitor wells, piezometers, and surface locations planned to be sampled during this monitoring event.

**Monitor Wells (filtered and unfiltered, see attachment)**

410	433	440	537	ATP-1-S	OW-2*	TP-17
411	434	442	AMM-1	ATP-2-D	RW-01	TP-18
412	435	443	AMM-2	ATP-2-S	TP-01	TP-19
414	436	444	AMM-3	ATP-3	TP-02	TP-20
430	437	455*	ATP-1-D*	MW-1-R	TP-07	TP-21
431	438	456*	ATP-1-ID*	MW-3	TP-11	
432	439	457*	2 Matheson Preserve wells (TBD)			

NOTE: \* these wells also require unfiltered samples.

**Piezometers (filtered)**

458            459            SMI-PZ3S        SMI-PZ3M        SMI-PZ3D2

Mr. Joel Berwick  
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**Surface Water Locations (filtered)**

CR1	CR2-001	CR3-001	CR5	CR2B	CRC	CRE
CR2	CR3	CR4	CRA	CR2B-001	CRD	201
204	205					

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 only. Access agreements for the Moab site are in review and expected to be completed by the start of fieldwork. Water level information will be collected from all wells and piezometers at the Moab site. Monitor well inspections will be conducted and documented to confirm the status of all sampled wells.

If you have any questions, please call me at extension 6564 or Dave Traub at extension 6557.

Sincerely,

Kenneth E. Karp  
Project Lead

KEK/lcg/lad  
Enclosures (3)

cc: D. R. Metzler, DOE-GJO  
C. I. Bahrke, Stoller  
R. B. Chessmore, Stoller  
D. G. Traub, Stoller  
L. M. Wright, Stoller  
Project File MOA 19.3 (Thru K. Sutton)

cc w/o enclosure:  
Correspondence Control File (Thru V. Creagar)  
K. E. Miller, Stoller

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# **SAMPLING LOCATION MAP(S)**

The map is not available in electronic format.  
Please email [moabcomments@gjo.doe.gov](mailto:moabcomments@gjo.doe.gov) to request map.