U.S. Department of Energy—Grand Junction, Colorado

Calculation Cover Sheet

Calc. No.: MOA-01-03-2006-2-01 **Discipline: Ground Water** **No. of Sheets: 7**

Project: **Moab UMTRA Project**

Site: **Moab Project Site**

Feature:
Ground Water/Surface Water Interaction Update

Sources of Data:

Chemical analysis results (analytical data for calendar year 2005)

Sources of Formulae and References:

Shepherd Miller, Inc., 2001. *Site Hydrogeologic and Geochemical Characterization and Alternatives Assessment for the Moab Mill Tailings Site, Moab, Utah, Appendix B-6,* April.

Trammell, M., and Christopherson, K, 1999. Colorado River Recovery Program FY 99 Annual Project Report, Project Number 22-C, Utah Division of Wildlife Resources.

U.S. Department of Energy, 2005a. Ground Water/Surface Water Interaction, Calculation No. 03-2005-03-03-00.

U.S. Department of Energy, 2005b. Fall 2004 Performance Assessment of the Ground Water Interim Action Well Fields at the Moab, Utah, Project Site, DOE-EM/GJ769-2004, January.

U.S. Department of Energy, 2005c. Remediation of the Moab Uranium Mill Tailings, Grand and San Juan Counties, Utah, Final Environmental Impact Statement, DOE/EIS-0355, July.

U.S. Department of Energy, 2006. Performance of the Ground Water Interim Action Injection System at the Configuration 2 Well Field, October 2004-October 2005, Calculation No. MOA-01-12-2005-2-03-00.

U.S. Environmental Protection Agency, 1999 Update of Ambient Water Quality Criteria for Ammonia; EPA-822-R-99-014.

U.S. Fish and Wildlife Service, 2002. Colorado Pikeminnow (Ptychocheilus lucius) Recovery Goals, Amendment and Supplement to the Colorado Squawfish Recovery Plan, Mountain-Prairie Region 6, Denver.

Preliminary Calc. ☐ **Final Calc.** ☐ **Supersedes Calc. No.**

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			Name / Date
			Name / Date

Purpose and Scope:

A ground water/surface water interaction calculation set was previously prepared (DOE 2005a) using data collected during calendar year 2004. That calculation set used data collected during routine sampling events and Interim Action (IA) performance sampling events. The main focus of the previous calculation set was to further refine the conceptual model for the site presented in the Site Observational Work Plan (SOWP; DOE 2003). This included an analysis of collocated ground water and surface water samples that were collected to help improve the understanding of the dilution effects as ground water discharges to the river.

During calendar year 2005, performance data for the IA ground water remediation systems continued to be collected. Those results are discussed in the performance monitoring reports for the IA systems (DOE 2005b and DOE 2006). In addition, selected wells and piezometers were sampled and analyzed for biogeochemical parameters to better understand what processes may be operating in the hyporheic zone adjacent to the site. Those results are discussed in the 2005 performance report for the Configuration 2 injection system (DOE 2006).

The emphasis in this report is on surface water quality in areas that have the potential to serve as habitat for endangered fish. Surface water data from previous sampling events are discussed as appropriate. The main purpose of the analysis in this calculation set is to better understand the actual effects that ground water discharge is having in the most critical habitat locations adjacent to the site.

The analyte of most concern due to toxicity to aquatic organisms is ammonia and that is the focus of this discussion. The water quality study plan that is being prepared as a requirement of the U.S. Fish and Wildlife Service's (USFWS) Biological Opinion for the site (*in* DOE 2005c) will discuss other contaminants of concern identified for the site. Ammonia results for ground water and surface water samples collected during calendar year 2005 are included in Attachment 1.

Sampling Approach:

This report focuses on surface water data collected during calendar year 2005, particularly data from locations deemed to be potentially suitable habitat for endangered fish that can be found in the Colorado River in the site vicinity. Surface water locations that were sampled during routine sampling events during 2005 were selected on the basis of their physical suitability for fish habitat. Sampling was biased toward locations with low or no velocity waters or waters that were sheltered in some manner from the main river channel. These are the types of waters preferred by the Colorado pikeminnow, the main endangered fish of concern in the site vicinity.

Results, Observations, and Discussion

Attachment 1 contains ammonia data for ground water and surface water samples collected during calendar year 2005. Thirty-five different surface locations were sampled during this time period; a total of 86 surface (river water) samples were collected. Figure 1 shows surface locations and selected monitoring wells and piezometers that were sampled. Locations of wells sampled in conjunction with IA operations can be found in the performance reports for those systems (DOE 2005b and DOE 2006).

A number of "fixed" surface water locations were sampled at different times during the year; typically these locations were collocated with an adjacent monitoring well. However, because of the dynamic nature of the river, some of these fixed locations actually shifted closer to or farther from the steep river bank, particularly in areas where the river bottom has a very gentle slope. It is in the area where the river bottom is gently sloping that the best habitat areas for endangered fish are likely to form. These areas coincide with the portion of the river where sand bars are located. The IA remediation systems have been installed adjacent to these same areas. The remediation systems were in operation for the complete calendar year 2005.

Only 14 of the 86 surface water samples collected in 2005 exceeded the maximum concentration of ammonia of 0.25 mg/L (total as N) observed at background location CR-1. A list of samples with ammonia concentrations exceeding background are presented in Table 1.

Table 1. Surface Locations with Ammonia Concentrations Exceeding Background During 2005

Location	Date	Ammonia, Total as N (mg/L)	State/Federal AWQC—Acute, Total as N (mg/L)	State/Federal AWQC—Chronic, Total as N (mg/L)
0216	1/27/2005	57	8.4	2.4
0216	2/22/2005	7.6	5.7	1.7
0222-006	11/2/2005	10	5.1	1.5
0234-005	7/12/2005	0.31	4.0	0.7
0236	1/26/2005	150	13.3	3.3
0236	2/22/2005	170	7.5	1.6
0236	3/14/2005	67	7.6	2.2
0236	8/24/2005	35	12.6	0.9
0236	11/2/2005	11	4.4	1.3
0240	10/19/2005	20	25.9	5.0
0245	1/27/2005	4.6	5.7	1.7
0245	2/22/2005	0.36	6.4	1.9
0261	11/2/2005	0.33	3.7	1.1
0265	11/2/2005	0.79	4.5	1.4

The data provided in Table 1 show that 10 samples exceeded the ambient water quality criteria (AWQC; EPA 1999) for ammonia (either acute, chronic or both). Of these exceedences, 70% were attributed to two locations. Locations 0236 and 0216 had the highest observed ammonia concentrations and exceeded acute AWQC. Of the remaining samples one location exceeded both the acute and chronic criteria on one occasion; a second location met the acute criteria but exceeded the chronic criteria on one occasion. All other locations had concentrations less than the applicable acute and chronic criteria.

Location 0236 is in the vicinity of Configuration 2 injection wellfield. This location was a fairly well-developed backwater area when it was sampled throughout calendar year 2004. During 2005, this backwater was largely filled with sediment and was progressively isolated from the river channel. However, when water was present in this area, it was sampled to provide continuity in data. During calendar year 2005 while the Configuration 2 injection system was operating, samples collected from this location demonstrated a near steady decline in ammonia concentrations (Figure 2). However, ammonia concentrations at location 0236 often still exceeded applicable acute criteria.

Location 0216 is found downgradient of the Configuration 2 injection well field. The two samples collected at this location that had ammonia concentrations exceeding the background level (Table 1) were taken during early 2005 (January and February). Subsequent samples collected at location 0216 showed consistently low concentrations of ammonia (all but one less than the detection limit of 0.1 mg/L).

All exceedences of acute or chronic ammonia AWQC occurred during base flow conditions. A hydrograph of Colorado River flows at the Cisco, Utah, gaging station is presented as Figure 2. Only one location (0234-005) had an ammonia concentration exceeding the background concentration under flow conditions above base flow; the concentration at this time and location was below both acute and chronic AWQC. All locations, including 0236, dropped below the AWQC (and generally detection limits) during some sampling event(s).

Ground water concentrations in wells adjacent to river sampling areas (including shallow piezometers) showed consistently and considerably higher concentrations of ammonia than that observed in surface water, even in the vicinity of the active remediation systems. Most locations with ammonia levels exceeding AWQC were in stagnant water that was cut off from the main river channel. Without a rise in river levels, these areas would not be considered habitat as concentration and evaporation effects would render them unusable regardless of the site influence. At best, these areas might provide temporary shelter for fish until river levels rose and once more allowed fish migration.

During the November 2005 monitoring event, several samples were collected from shallow, slow moving water immediately adjacent to the river bank. Some of these locations represented quieter, sheltered

areas (ponded water) created by debris. Ammonia concentrations at these locations were below detection limits.

Before DOE assumed responsibility for the site, an intensive ammonia sampling effort was conducted from April through November of 2000 (SMI 2001) for the site trustee. At that time there was a significant amount of potential fish habitat formed immediately downstream of Moab Wash. This shallow, low velocity area extended downstream to the northern extent of the current components of the IA. The study involved collecting samples along transects perpendicular to shore and collecting samples from different water depths along the transects. The study showed that ammonia concentrations varied greatly, that highest concentrations were confined to stagnant pools, and that concentrations were highly dependent on river flows. Locations exceeding AWQC were typically associated with backwaters behind larger sandbars.

Since the time of the SMI study, much of the shoreline between Moab Wash and Configuration 3 has filled in with sediment and backwaters no longer form in that portion of the river. As a consequence, the size of the area capable of providing potential habitat appears to have both decreased since the time of that study and shifted southward (downstream).

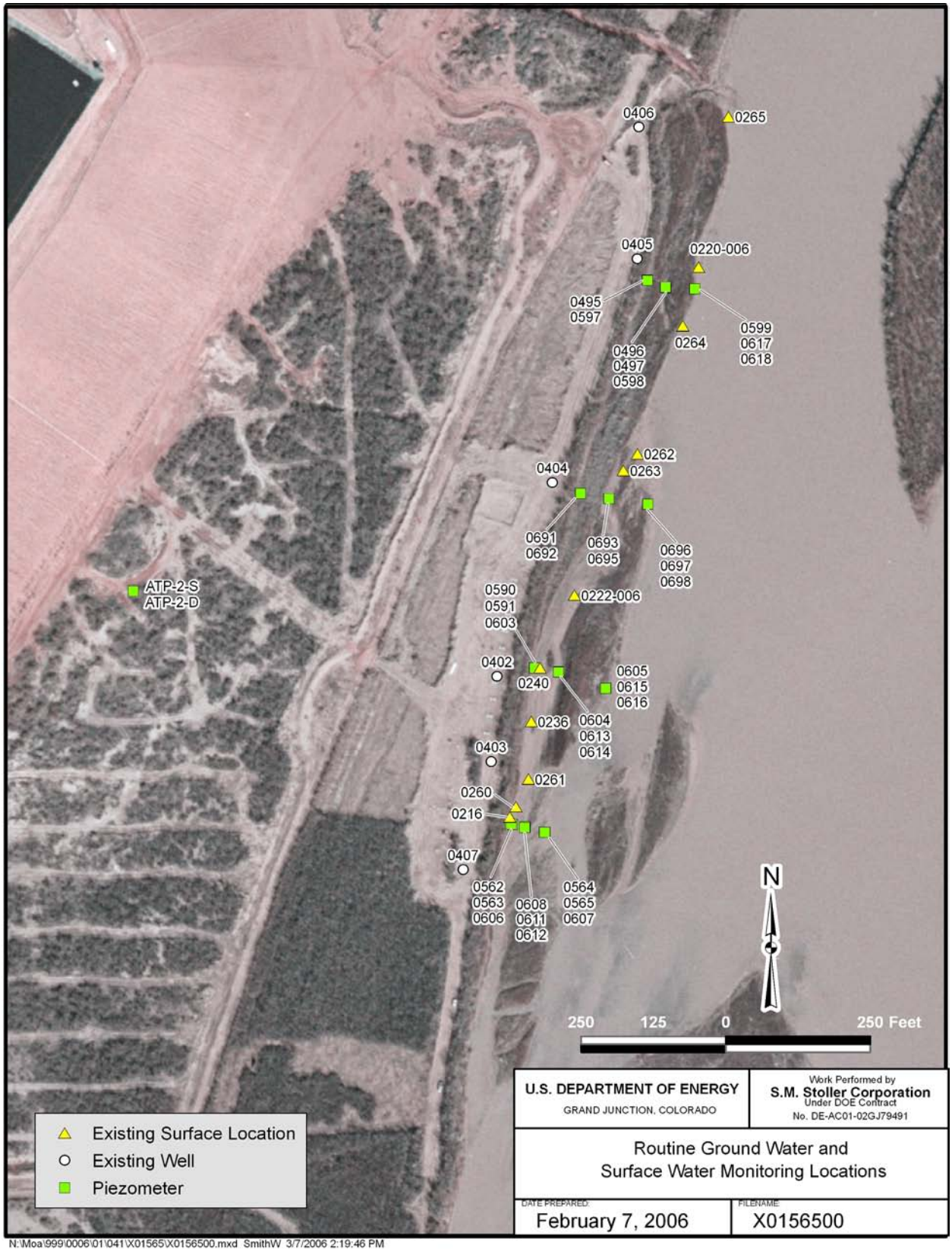
Conclusions

Based on the sampling and analysis results for ammonia during calendar year 2005, the following conclusions can be made:

- Results confirm that significant dilution (or attenuation of concentration) is occurring as ground water discharges to the river, particularly during the time of year when young-of-year fish are most likely present.
- Two locations (0216 and 0236) account for the bulk of AWQC exceedences and occurrences of detected ammonia. Ammonia concentrations at these locations generally decreased with time during the year as IA operations continued.
- It appears that the only samples with ammonia concentrations that exceeded acute AWQC were taken from stagnant water. If these pools were to reconnect to the river and serve as temporary refuge for fish, the ammonia exceedences could have deleterious effects on the fish. On the other hand, if they are likely to remain cut off and from the main channel and lose significant quantities of water to evaporation, they no longer represent suitable habitat regardless of the presence or absence of site-related contamination. Because areas likely to be affected by ammonia provide temporary refuge for fish at best, the acute AWQC are of greater concern than the chronic AWQC (i.e., habitat areas exist for durations that are too short to apply the 30-day chronic criteria).
- As noted in other reports (SMI 2001), the configuration of the river has a greater influence on ammonia concentrations in river water than the concentrations of ammonia in ground water that discharges to the river.
- Existing components of the IA may be having significant favorable effects in the areas of the river where ammonia discharge is most problematic; ammonia concentrations in sensitive portions of the river generally decreased with time during this study even during baseflow conditions.
- The recovery plans for the Colorado pikeminnow and other endangered fish in the Colorado River list a number of factors that constitute threats to endangered fish populations. These include streamflow regulation, habitat modification, and competition with and predation by nonnative fish species, as well as threats from pesticides and pollutants (USFWS 2002). The plan notes that 435 miles of habitat has been lost by reservoir inundation and 50 miles has been eliminated due to cold water release. Fish surveys along the river indicate that fish populations are overwhelmingly dominated by nonnative fish species (Trammell and Christopherson 1999). In the Colorado River for 1999, it was estimated that carp alone comprised 55% of the fish population compared to <5% for Colorado pikeminnow. Studies at the Moab site show that, at most, a 250-foot stretch of river adjacent to the site can be affected by contaminant discharge during times when river flow conditions permit the formation of shallow pools. Accordingly, the threat posed by site-related ammonia contamination is temporary and quite small with respect to other factors that are likely to impact fish recovery efforts.

Recommendations

- Continue to focus future monitoring efforts in areas affected by current components of the IA. Little or no effect from discharge of site-related contamination to the river is expected outside this immediate area unless the shoreline configuration changes significantly.
- While the dynamic river setting makes it difficult to prove direct cause-and-effect relationships, the data analyzed in this study suggest that both extraction and injection systems can have a beneficial effect on river water quality; concentrations of ammonia in both types of areas appear to have been reduced by at least an order of magnitude. If the goal of expanding the IA is to improve surface water quality, the emphasis of any expansion should be in areas where habitat is most likely to form and where elevated ammonia has been observed in the past.
- The USFWS has expressed some interest in conducting an intensive sampling effort in potential habitat areas. Based on biased sampling results from calendar year 2005 and a review of the previous intensive sampling effort conducted by SMI (SMI 2001), it is unlikely that such an effort will actually improve our understanding of the site's impact on habitat areas. Biased sampling and analysis has shown that areas visually identified as most likely impacted on the basis of physical channel characteristics (e.g., pools, low velocity or stagnant) are indeed those areas most likely affected by site contamination. As part of the biota monitoring plan, the occurrence and distribution of such areas will be visually identified and tracked over time to improve the understanding of the amount of potential habitat that actually occurs in the vicinity of the site. If dead fish are observed, surface water samples from those areas will be collected and analyzed. In taking this empirical approach to determining site impacts, there is no need for intensive sampling at this time. If results of the biota monitoring effort demonstrate a site-related cause-and-effect relationship, additional sampling to delineate the extent of potential effect may be justified.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Existing Surface Location
Existing Well
Piezometer
U.S. DEPARTMENT OF ENERGY
GRAND JUNCTION, COLORADO
Work Performed by
S.M. Stoller Corporation
Under DOE Contract
No. DE-AC01-02GJ79491
Routine Ground Water and
Surface Water Monitoring Locations
DATE PREPARED:
February 7, 2006
FILENAME:
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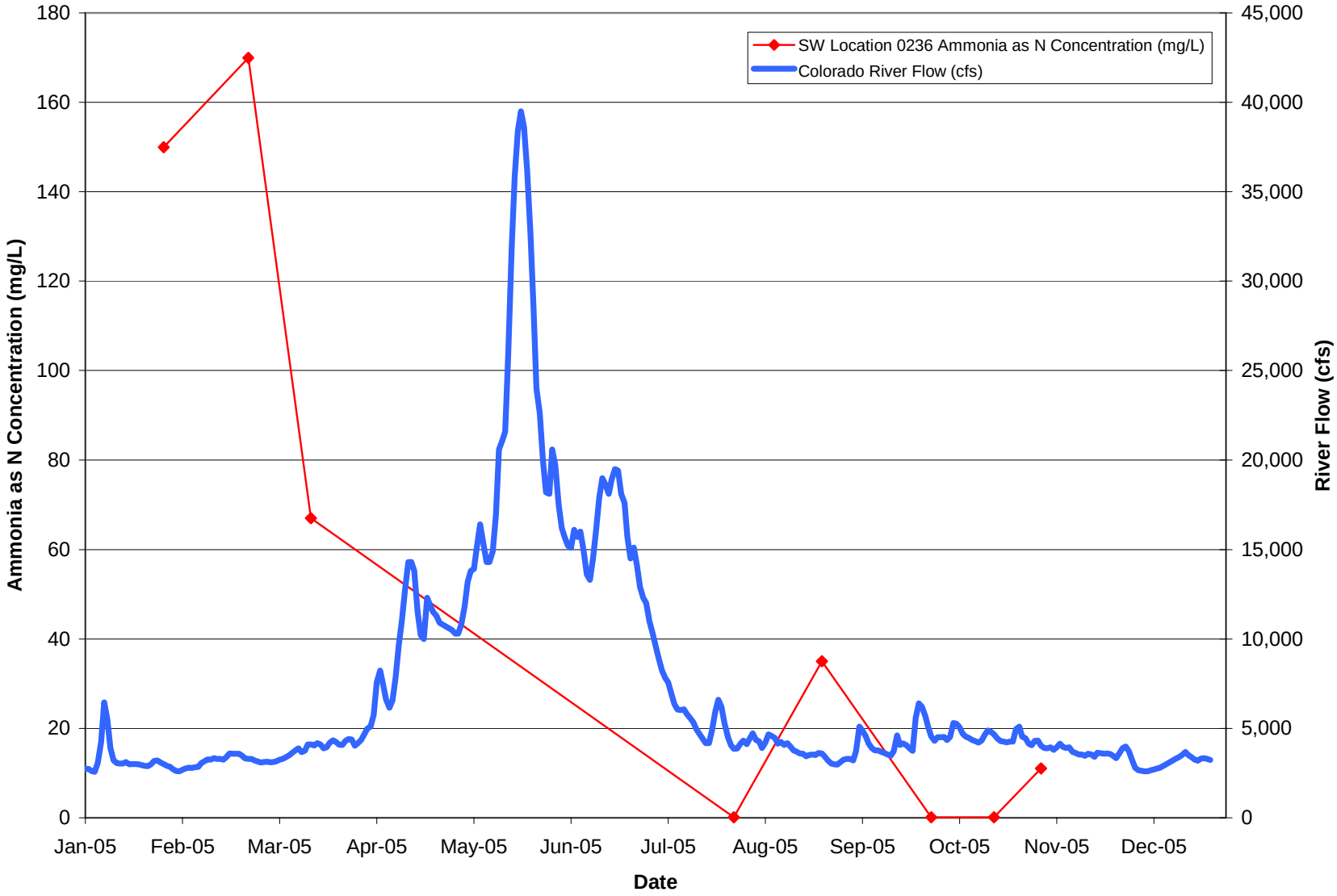
SW Location 0236 Ammonia as N Concentration (mg/L)
Colorado River Flow (cfs)
Ammonia as N Concentration (mg/L)
River Flow (cfs)
Date
0
20
40
60
80
100
120
140
160
180
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10,000
15,000
20,000
25,000
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35,000
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Jan-05
Feb-05
Mar-05
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Dec-05

Attachment 1

Ammonia Results for
Ground Water and Surface Water
Calendar Year 2005

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
REPORT DATE: 2/27/2006 10:10 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0201	SL, RIV	04/21/2005	0001	1.00 - 1.00	0.13			#	0.1	-
	mg/L	0201	SL, RIV	07/11/2005	0001	0.83 - 0.83	0.1	U		#	0.1	-
	mg/L	0204-004	SL, RIV	04/21/2005	0001	0.50 - 1.00	0.14			#	0.1	-
	mg/L	0204-004	SL, RIV	04/21/2005	0002	0.50 - 1.00	0.12			#	0.1	-
	mg/L	0204-005	SL, RIV	07/14/2005	0001	0.67 - 0.83	0.1	U		#	0.1	-
	mg/L	0207	SL, RIV	11/03/2005	0001	0.42 - 0.42	0.1	U		#	0.1	-
	mg/L	0216	SL, RIV	01/27/2005	0001	0.17 - 0.17	57			#	2	-
	mg/L	0216	SL, RIV	02/22/2005	0001	0.17 - 0.17	7.6			#	0.2	-
	mg/L	0216	SL, RIV	03/14/2005	0001	0.17 - 0.17	0.54			#	0.1	-
	mg/L	0216	SL, RIV	04/27/2005	0001	1.00 - 1.00	0.1	U		#	0.1	-
	mg/L	0216	SL, RIV	05/25/2005	0001	0.00 - 0.00	0.1	U		#	0.1	-
	mg/L	0216	SL, RIV	06/23/2005	0001	0.00 - 0.00	0.1	U		#	0.1	-
	mg/L	0216	SL, RIV	07/27/2005	0001	1.00 - 1.00	0.1	U		#	0.1	-
	mg/L	0216	SL, RIV	08/24/2005	0001	0.33 - 0.33	0.1	U		#	0.1	-
	mg/L	0216	SL, RIV	09/27/2005	0001	0.25 - 0.25	0.1	U		#	0.1	-
	mg/L	0216	SL, RIV	10/13/2005	0001	0.33 - 0.33	0.1	U		#	0.1	-
	mg/L	0217	SL, RIV	04/21/2005	0001	1.00 - 1.00	0.13			#	0.1	-
	mg/L	0217	SL, RIV	07/15/2005	0001	0.50 - 0.50	0.1	U		#	0.1	-
	mg/L	0218-004	SL, RIV	04/21/2005	0001	2.00 - 3.00	0.13			#	0.1	-
	mg/L	0218-005	SL, RIV	07/14/2005	0001	0.00 - 0.00	0.1	U		#	0.1	-
	mg/L	0219-004	SL, RIV	04/19/2005	0001	0.30 - 0.30	0.2			#	0.1	-
	mg/L	0219-005	SL, RIV	07/14/2005	0001	0.67 - 0.67	0.1	U		#	0.1	-
	mg/L	0219-005	SL, RIV	07/14/2005	0002	0.67 - 0.67	0.1	U		#	0.1	-
	mg/L	0220-004	SL, RIV	04/19/2005	0001	0.50 - 0.50	0.21			#	0.1	-
	mg/L	0220-005	SL, RIV	07/14/2005	0001	0.67 - 0.83	0.1	U		#	0.1	-
	mg/L	0220-006	SL, RIV	11/03/2005	0001	0.20 - 0.20	0.1	U		#	0.1	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
REPORT DATE: 2/27/2006 10:10 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0220-006	SL, RIV	11/03/2005	0002	0.20 - 0.20	0.1	U		#	0.1	-
	mg/L	0221-004	SL, RIV	04/20/2005	0001	0.50 - 0.70	0.21			#	0.1	-
	mg/L	0221-005	SL, RIV	07/14/2005	0001	0.67 - 0.67	0.1	U		#	0.1	-
	mg/L	0222-004	SL, RIV	04/20/2005	0001	1.00 - 1.00	0.16			#	0.1	-
	mg/L	0222-005	SL, RIV	07/13/2005	0001	0.67 - 0.67	0.1	U		#	0.1	-
	mg/L	0222-006	SL, RIV	11/03/2005	0001	0.08 - 0.08	10			#	0.5	-
	mg/L	0223-004	SL, RIV	04/20/2005	0001	1.00 - 1.00	0.18			#	0.1	-
	mg/L	0223-005	SL, RIV	07/12/2005	0001	0.83 - 1.00	0.1	U		#	0.1	-
	mg/L	0224-004	SL, RIV	04/20/2005	0001	0.50 - 1.00	0.18			#	0.1	-
	mg/L	0224-005	SL, RIV	07/12/2005	0001	0.67 - 0.67	0.1	U		#	0.1	-
	mg/L	0225-004	SL, RIV	04/20/2005	0001	1.00 - 1.00	0.17			#	0.1	-
	mg/L	0225-005	SL, RIV	07/12/2005	0001	0.67 - 0.67	0.1	U		#	0.1	-
	mg/L	0226-004	SL, RIV	04/20/2005	0001	0.50 - 1.00	0.17			#	0.1	-
	mg/L	0226-005	SL, RIV	07/12/2005	0001	0.67 - 0.67	0.1	U		#	0.1	-
	mg/L	0226-006	SL, RIV	11/03/2005	0001	0.17 - 0.17	0.1	U		#	0.1	-
	mg/L	0227-004	SL, RIV	04/20/2005	0001	0.50 - 1.00	0.16			#	0.1	-
	mg/L	0227-005	SL, RIV	07/11/2005	0001	0.83 - 1.00	0.1	U		#	0.1	-
	mg/L	0227-006	SL, RIV	11/03/2005	0001	0.17 - 0.17	0.1	U		#	0.1	-
	mg/L	0228-004	SL, RIV	04/20/2005	0001	0.50 - 1.00	0.17			#	0.1	-
	mg/L	0228-005	SL, RIV	07/11/2005	0001	0.83 - 1.00	0.1	U		#	0.1	-
	mg/L	0228-006	SL, RIV	11/03/2005	0001	0.17 - 0.17	0.1	U		#	0.1	-
	mg/L	0232-004	SL, RIV	04/20/2005	0001	2.00 - 3.00	0.17			#	0.1	-
	mg/L	0232-005	SL, RIV	07/11/2005	0001	1.50 - 2.00	0.1	U		#	0.1	-
	mg/L	0233-004	SL, RIV	04/20/2005	0001	2.00 - 3.00	0.17			#	0.1	-
	mg/L	0233-005	SL, RIV	07/12/2005	0001	2.00 - 2.00	0.1	U		#	0.1	-
	mg/L	0234-004	SL, RIV	04/20/2005	0001	1.00 - 2.00	0.17			#	0.1	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
REPORT DATE: 2/27/2006 10:10 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0234-005	SL, RIV	07/12/2005	0001	1.00 - 1.00	0.31			#	0.1	-
	mg/L	0235-005	SL, RIV	07/12/2005	0001	1.00 - 1.50	0.1	U		#	0.1	-
	mg/L	0236	SL, RIV	01/26/2005	0001	0.30 - 0.30	150			#	10	-
	mg/L	0236	SL, RIV	02/22/2005	0001	0.30 - 0.30	170			#	20	-
	mg/L	0236	SL, RIV	03/14/2005	0001	0.30 - 0.30	67			#	10	-
	mg/L	0236	SL, RIV	07/27/2005	0001	0.00 - 0.00	0.1	U		#	0.1	-
	mg/L	0236	SL, RIV	08/24/2005	0001	0.00 - 0.00	35			#	5	-
	mg/L	0236	SL, RIV	09/28/2005	0001	0.00 - 0.00	0.1	U		#	0.1	-
	mg/L	0236	SL, RIV	10/18/2005	0001	0.50 - 0.50	0.13			#	0.1	-
	mg/L	0236	SL, RIV	11/02/2005	0001	0.17 - 0.17	11			#	0.5	-
	mg/L	0239	SL, RIV	10/18/2005	0001	0.67 - 0.67	0.1	U		#	0.1	-
	mg/L	0240	SL, RIV	07/27/2005	0001	0.00 - 0.00	0.1	U		#	0.1	-
	mg/L	0240	SL, RIV	09/28/2005	0001	0.00 - 0.00	0.1	U		#	0.1	-
	mg/L	0240	SL, RIV	10/19/2005	0001	0.50 - 0.50	20			#	1	-
	mg/L	0243	SL	10/12/2005	0001	0.00 - 0.00	0.1	U		#	0.1	-
	mg/L	0243	SL	12/08/2005	0001	0.25 - 0.25	0.32			#	0.1	-
	mg/L	0245	SL, RIV	01/27/2005	0001	0.30 - 0.30	4.6			#	0.1	-
	mg/L	0245	SL, RIV	02/22/2005	0001	0.25 - 0.25	0.36			#	0.1	-
	mg/L	0245	SL, RIV	03/14/2005	0001	0.25 - 0.25	0.24			#	0.1	-
	mg/L	0245	SL, RIV	08/24/2005	0001	0.33 - 0.33	0.1	U		#	0.1	-
	mg/L	0245	SL, RIV	09/27/2005	0001	0.25 - 0.25	0.1	U		#	0.1	-
	mg/L	0245	SL, RIV	10/13/2005	0001	0.50 - 0.50	0.1	U		#	0.1	-
	mg/L	0247	SL, RIV	06/30/2005	0001	0.00 - 0.00	0.14				0.1	-
	mg/L	0250	SL, RIV	07/05/2005	0001	0.00 - 0.00	0.11				0.1	-
	mg/L	0253	SL, RIV	07/05/2005	0001	0.00 - 0.00	0.37				0.1	-
	mg/L	0259	SL, RIV	10/18/2005	0001	0.67 - 0.67	0.1	U		#	0.1	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
REPORT DATE: 2/27/2006 10:10 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0260	SL, RIV	11/03/2005	0001	0.17 - 0.17	0.1	U		#	0.1	-
	mg/L	0261	SL, RIV	11/02/2005	0001	0.17 - 0.17	0.33			#	0.1	-
	mg/L	0262	SL, RIV	11/02/2005	0001	0.17 - 0.17	0.1	U		#	0.1	-
	mg/L	0263	SL, RIV	11/02/2005	0001	0.17 - 0.17	0.1	U		#	0.1	-
	mg/L	0264	SL, RIV	11/02/2005	0001	0.17 - 0.17	0.1	U		#	0.1	-
	mg/L	0265	SL, RIV	11/03/2005	0001	0.20 - 0.20	0.79			#	0.1	-
	mg/L	0271	SL, RIV	12/16/2005	0001	0.00 - 0.00	0.1	U		#	0.1	-
	mg/L	0273	SL, RIV	12/15/2005	0001	0.00 - 0.00	0.32			#	0.1	-
	mg/L	0401	WL	04/20/2005	0001	18.00 - 18.00	1.4		F	#	0.1	-
	mg/L	0401	WL	05/26/2005	0001	18.00 - 18.00	8.5		F	#	0.2	-
	mg/L	0401	WL	06/24/2005	N001	18.00 - 18.00	16		F	#	0.5	-
	mg/L	0401	WL	07/13/2005	0001	18.00 - 18.00	17		F	#	2	-
	mg/L	0401	WL	08/26/2005	0001	18.00 - 18.00	43		F	#	5	-
	mg/L	0401	WL	09/28/2005	0001	18.00 - 18.00	70		F	#	2	-
	mg/L	0401	WL	10/20/2005	0001	18.00 - 18.00	72		F	#	20	-
	mg/L	0401	WL	11/15/2005	0001	18.00 - 18.00	5.3		F	#	0.2	-
	mg/L	0401	WL	11/15/2005	0002	18.00 - 18.00	5.3		F	#	0.2	-
	mg/L	0401	WL	12/09/2005	0001	18.00 - 18.00	3.7		F	#	0.1	-
	mg/L	0402	WL	04/20/2005	0001	17.00 - 17.00	16		F	#	0.5	-
	mg/L	0402	WL	05/24/2005	0001	17.00 - 17.00	28		F	#	5	-
	mg/L	0402	WL	06/22/2005	N001	17.00 - 17.00	25		F	#	2	-
	mg/L	0402	WL	07/12/2005	0001	17.00 - 17.00	18		F	#	2	-
	mg/L	0402	WL	07/27/2005	0001	17.00 - 17.00	41		JF	#	1	-
	mg/L	0402	WL	08/25/2005	0001	17.00 - 17.00	38		F	#	5	-
	mg/L	0402	WL	08/25/2005	0002	17.00 - 17.00	37		F	#	5	-
	mg/L	0402	WL	10/19/2005	0001	17.00 - 17.00	84		F	#	20	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
REPORT DATE: 2/27/2006 10:10 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0402	WL	11/03/2005	0001	16.40 - 16.40	43		F	#	1	-
	mg/L	0402	WL	11/10/2005	0001	17.00 - 17.00	34		F	#	1	-
	mg/L	0402	WL	12/08/2005	0001	17.00 - 17.00	25		F	#	1	-
	mg/L	0403	WL	01/27/2005	0001	18.00 - 18.00	56		F	#	5	-
	mg/L	0403	WL	01/27/2005	0002	18.00 - 18.00	57		F	#	2	-
	mg/L	0403	WL	02/23/2005	0001	18.00 - 18.00	41		F	#	2	-
	mg/L	0403	WL	03/15/2005	0001	18.00 - 18.00	31		F	#	10	-
	mg/L	0403	WL	04/20/2005	0001	18.00 - 18.00	170		F	#	50	-
	mg/L	0403	WL	05/25/2005	0001	18.00 - 18.00	40		F	#	5	-
	mg/L	0403	WL	06/23/2005	0001	18.00 - 18.00	110		F	#	10	-
	mg/L	0403	WL	07/12/2005	0001	18.00 - 18.00	64		F	#	20	-
	mg/L	0403	WL	07/26/2005	0001	18.00 - 18.00	39		F	#	1	-
	mg/L	0403	WL	08/24/2005	0001	18.00 - 18.00	62		F	#	20	-
	mg/L	0403	WL	09/27/2005	0001	18.00 - 18.00	77		F	#	20	-
	mg/L	0403	WL	09/27/2005	0002	18.00 - 18.00	77		F	#	20	-
	mg/L	0403	WL	10/27/2005	0001	18.00 - 18.00	59.400		F	#	0.549	-
	mg/L	0403	WL	12/13/2005	0001	18.00 - 18.00	63.600				2.19	-
	mg/L	0404	WL	04/20/2005	0001	17.00 - 17.00	340		F	#	50	-
	mg/L	0404	WL	04/20/2005	0002	17.00 - 17.00	340		F	#	50	-
	mg/L	0404	WL	09/30/2005	0001	18.00 - 18.00	350		F	#	20	-
	mg/L	0404	WL	11/03/2005	0001	17.00 - 17.00	370		F	#	20	-
	mg/L	0405	WL	04/19/2005	0001	18.00 - 18.00	430		F	#	50	-
	mg/L	0405	WL	07/14/2005	0001	18.00 - 18.00	420		F	#	50	-
	mg/L	0405	WL	10/26/2005	0001	18.00 - 18.00	490.000		F	#	5.49	-
	mg/L	0405	WL	11/03/2005	0001	17.60 - 17.60	450		F	#	20	-
	mg/L	0405	WL	11/03/2005	0002	17.60 - 17.60	460		F	#	20	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
REPORT DATE: 2/27/2006 10:10 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0405	WL	12/13/2005	0001	18.00 - 18.00	459.000				5.49	-
	mg/L	0406	WL	04/19/2005	0001	16.00 - 16.00	410		F	#	50	-
	mg/L	0406	WL	07/14/2005	0001	16.00 - 16.00	320		F	#	50	-
	mg/L	0406	WL	11/03/2005	0001	17.30 - 17.30	420		F	#	20	-
	mg/L	0407	WL	01/27/2005	0001	17.00 - 17.00	460		F	#	50	-
	mg/L	0407	WL	02/23/2005	0001	17.00 - 17.00	280		F	#	50	-
	mg/L	0407	WL	03/15/2005	0001	17.00 - 17.00	130		F	#	10	-
	mg/L	0407	WL	03/15/2005	0002	17.00 - 17.00	130		F	#	10	-
	mg/L	0407	WL	04/20/2005	0001	17.00 - 17.00	49		F	#	2	-
	mg/L	0407	WL	05/25/2005	0001	17.00 - 17.00	23		F	#	5	-
	mg/L	0407	WL	06/23/2005	0001	17.00 - 17.00	9.9		F	#	0.2	-
	mg/L	0407	WL	07/12/2005	0001	17.00 - 17.00	6.7		F	#	0.2	-
	mg/L	0407	WL	07/26/2005	0001	17.00 - 17.00	12		F	#	0.5	-
	mg/L	0407	WL	08/24/2005	0001	17.00 - 17.00	19		F	#	0.5	-
	mg/L	0407	WL	08/24/2005	0002	17.00 - 17.00	18		F	#	0.5	-
	mg/L	0407	WL	09/27/2005	0001	17.00 - 17.00	15		F	#	0.5	-
	mg/L	0407	WL	10/27/2005	0001	17.00 - 17.00	15.300		F	#	0.549	-
	mg/L	0407	WL	12/12/2005	0001	17.00 - 17.00	18.400				0.549	-
	mg/L	0408	WL	01/28/2005	0001	26.00 - 26.00	170		F	#	50	-
	mg/L	0408	WL	02/25/2005	0001	28.00 - 28.00	130		F	#	20	-
	mg/L	0408	WL	03/16/2005	0001	26.00 - 26.00	90		F	#	10	-
	mg/L	0408	WL	04/20/2005	0001	26.00 - 26.00	91		F	#	20	-
	mg/L	0408	WL	05/26/2005	0001	26.00 - 26.00	68		F	#	5	-
	mg/L	0408	WL	06/24/2005	N001	26.00 - 26.00	56		F	#	2	-
	mg/L	0408	WL	07/13/2005	0001	26.00 - 26.00	75		F	#	20	-
	mg/L	0408	WL	07/13/2005	0002	26.00 - 26.00	77		F	#	20	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
REPORT DATE: 2/27/2006 10:10 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0408	WL	07/28/2005	0001	26.00 - 26.00	99		F	#	20	-
	mg/L	0408	WL	08/26/2005	0001	26.00 - 26.00	190		F	#	5	-
	mg/L	0408	WL	09/28/2005	0001	26.00 - 26.00	240		F	#	10	-
	mg/L	0408	WL	10/20/2005	0001	26.00 - 26.00	320		F	#	20	-
	mg/L	0408	WL	11/15/2005	0001	26.00 - 26.00	210		F	#	10	-
	mg/L	0408	WL	12/09/2005	0001	26.00 - 26.00	240		F	#	50	-
	mg/L	0437	WL	04/22/2005	0001	97.00 - 97.00	0.1	U	F	#	0.1	-
	mg/L	0437	WL	07/13/2005	0001	97.00 - 97.00	0.43		F	#	0.1	-
	mg/L	0437	WL	11/01/2005	0001	97.00 - 97.00	0.1	U	F	#	0.1	-
	mg/L	0438	WL	04/22/2005	0001	118.00 - 118.00	17		F	#	0.5	-
	mg/L	0438	WL	07/13/2005	0001	118.00 - 118.00	20		F	#	2	-
	mg/L	0438	WL	11/01/2005	0001	118.00 - 118.00	17		F	#	0.5	-
	mg/L	0439	WL	04/22/2005	0001	118.00 - 118.00	8.8		F	#	0.2	-
	mg/L	0439	WL	07/13/2005	0001	118.00 - 118.00	11		F	#	0.5	-
	mg/L	0439	WL	11/01/2005	0001	118.00 - 118.00	14		F	#	0.5	-
	mg/L	0470	WL, EXT	01/25/2005	0001	17.00 - 17.00	860			#	50	-
	mg/L	0470	WL, EXT	02/23/2005	0001	10.30 - 19.70	880			#	50	-
	mg/L	0470	WL, EXT	03/15/2005	0001	10.30 - 19.70	850		F	#	20	-
	mg/L	0470	WL, EXT	04/28/2005	0001	10.30 - 19.70	150		F	#	10	-
	mg/L	0470	WL, EXT	05/25/2005	0001	10.30 - 19.70	40			#	5	-
	mg/L	0470	WL, EXT	06/23/2005	0001	10.30 - 19.70	61			#	2	-
	mg/L	0470	WL, EXT	07/27/2005	0001	10.30 - 19.70	340			#	50	-
	mg/L	0470	WL, EXT	08/25/2005	0001	10.30 - 19.70	430			#	20	-
	mg/L	0470	WL, EXT	09/29/2005	0001	10.30 - 19.70	410			#	20	-
	mg/L	0470	WL, EXT	10/13/2005	0001	10.30 - 19.70	390			#	50	-
	mg/L	0470	WL, EXT	10/13/2005	0002	10.30 - 19.70	400			#	10	-

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0470	WL, EXT	11/10/2005	0001	10.30 - 19.70	400			#	10	-
	mg/L	0470	WL, EXT	12/05/2005	0001	10.30 - 19.70	450			#	20	-
	mg/L	0471	WL, EXT	01/25/2005	0001	17.00 - 17.00	610			#	50	-
	mg/L	0471	WL, EXT	02/23/2005	0001	10.30 - 19.70	850			#	50	-
	mg/L	0471	WL, EXT	03/15/2005	0001	10.30 - 19.70	990		F	#	20	-
	mg/L	0471	WL, EXT	04/28/2005	0001	10.30 - 19.70	190		F	#	50	-
	mg/L	0471	WL, EXT	05/25/2005	0001	10.30 - 19.70	70			#	5	-
	mg/L	0471	WL, EXT	06/23/2005	0001	10.30 - 19.70	170			#	50	-
	mg/L	0471	WL, EXT	07/27/2005	0001	10.30 - 19.70	660			#	50	-
	mg/L	0471	WL, EXT	08/25/2005	0001	10.30 - 19.70	630			#	20	-
	mg/L	0471	WL, EXT	09/29/2005	0001	10.30 - 19.70	560			#	20	-
	mg/L	0471	WL, EXT	10/13/2005	0001	10.30 - 19.70	530			#	50	-
	mg/L	0471	WL, EXT	11/10/2005	0001	10.30 - 19.70	490			#	10	-
	mg/L	0471	WL, EXT	12/05/2005	0001	10.30 - 19.70	540			#	20	-
	mg/L	0472	WL, EXT	01/25/2005	0001	17.00 - 17.00	420			#	50	-
	mg/L	0472	WL, EXT	02/23/2005	0001	10.30 - 19.70	710			#	50	-
	mg/L	0472	WL, EXT	03/15/2005	0001	10.30 - 19.70	820		F	#	20	-
	mg/L	0472	WL, EXT	04/28/2005	0001	10.30 - 19.70	140		F	#	10	-
	mg/L	0472	WL, EXT	05/25/2005	0001	10.30 - 19.70	40			#	5	-
	mg/L	0472	WL, EXT	06/23/2005	0001	10.30 - 19.70	220			#	50	-
	mg/L	0472	WL, EXT	07/27/2005	0001	10.30 - 19.70	680			#	50	-
	mg/L	0472	WL, EXT	08/25/2005	0001	10.30 - 19.70	640			#	20	-
	mg/L	0472	WL, EXT	09/29/2005	0001	10.30 - 19.70	380			#	20	-
	mg/L	0472	WL, EXT	10/13/2005	0001	10.30 - 19.70	360			#	50	-
	mg/L	0472	WL, EXT	11/10/2005	0001	10.30 - 19.70	350			#	10	-
	mg/L	0472	WL, EXT	12/05/2005	0001	10.30 - 19.70	410			#	20	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
REPORT DATE: 2/27/2006 10:10 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0473	WL, EXT	01/25/2005	0001	17.00 - 17.00	600			#	50	-
	mg/L	0473	WL, EXT	02/23/2005	0001	10.30 - 19.70	580			#	50	-
	mg/L	0473	WL, EXT	03/15/2005	0001	10.30 - 19.70	650		F	#	20	-
	mg/L	0473	WL, EXT	04/28/2005	0001	10.30 - 19.70	170		F	#	50	-
	mg/L	0473	WL, EXT	05/25/2005	0001	10.30 - 19.70	60			#	5	-
	mg/L	0473	WL, EXT	06/23/2005	0001	10.30 - 19.70	290			#	50	-
	mg/L	0473	WL, EXT	07/27/2005	0001	10.30 - 19.70	510			#	50	-
	mg/L	0473	WL, EXT	08/25/2005	0001	10.30 - 19.70	370			#	20	-
	mg/L	0473	WL, EXT	09/29/2005	0001	10.30 - 19.70	230			#	20	-
	mg/L	0473	WL, EXT	10/13/2005	0001	10.30 - 19.70	210			#	50	-
	mg/L	0473	WL, EXT	11/10/2005	0001	10.30 - 19.70	220			#	10	-
	mg/L	0473	WL, EXT	12/05/2005	0001	10.30 - 19.70	260			#	20	-
	mg/L	0474	WL, EXT	01/25/2005	0001	17.00 - 17.00	410			#	50	-
	mg/L	0474	WL, EXT	02/23/2005	0001	10.30 - 19.70	450			#	50	-
	mg/L	0474	WL, EXT	03/15/2005	0001	10.30 - 19.70	570		F	#	20	-
	mg/L	0474	WL, EXT	04/28/2005	0001	10.30 - 19.70	280		F	#	50	-
	mg/L	0474	WL, EXT	05/25/2005	0001	10.30 - 19.70	110			#	5	-
	mg/L	0474	WL, EXT	06/23/2005	0001	10.30 - 19.70	320			#	50	-
	mg/L	0474	WL, EXT	07/27/2005	0001	10.30 - 19.70	470			#	50	-
	mg/L	0474	WL, EXT	08/25/2005	0001	10.30 - 19.70	400			#	20	-
	mg/L	0474	WL, EXT	09/29/2005	0001	10.30 - 19.70	310			#	20	-
	mg/L	0474	WL, EXT	10/13/2005	0001	10.30 - 19.70	280			#	50	-
	mg/L	0474	WL, EXT	11/10/2005	0001	10.30 - 19.70	270			#	10	-
	mg/L	0474	WL, EXT	12/05/2005	0001	10.30 - 19.70	380			#	20	-
	mg/L	0475	WL, EXT	01/26/2005	0001	17.00 - 17.00	490			#	50	-
	mg/L	0475	WL, EXT	02/23/2005	0001	10.30 - 19.70	390			#	50	-

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0475	WL, EXT	03/15/2005	0001	10.30 - 19.70	390		F	#	10	-
	mg/L	0475	WL, EXT	04/28/2005	0001	10.30 - 19.70	270		F	#	50	-
	mg/L	0475	WL, EXT	05/25/2005	0001	10.30 - 19.70	95			#	5	-
	mg/L	0475	WL, EXT	06/23/2005	0001	10.30 - 19.70	310			#	50	-
	mg/L	0475	WL, EXT	07/27/2005	0001	10.30 - 19.70	360			#	50	-
	mg/L	0475	WL, EXT	08/25/2005	0001	10.30 - 19.70	320			#	20	-
	mg/L	0475	WL, EXT	09/29/2005	0001	10.30 - 19.70	260			#	20	-
	mg/L	0475	WL, EXT	10/13/2005	0001	10.30 - 19.70	250			#	50	-
	mg/L	0475	WL, EXT	11/10/2005	0001	10.30 - 19.70	250			#	10	-
	mg/L	0475	WL, EXT	11/10/2005	0002	10.30 - 19.70	240			#	20	-
	mg/L	0475	WL, EXT	12/05/2005	0001	10.30 - 19.70	310			#	20	-
	mg/L	0476	WL, EXT	01/26/2005	0001	17.00 - 17.00	450			#	50	-
	mg/L	0476	WL, EXT	02/23/2005	0001	10.30 - 19.70	360			#	50	-
	mg/L	0476	WL, EXT	03/15/2005	0001	10.30 - 19.70	390		F	#	10	-
	mg/L	0476	WL, EXT	04/27/2005	0001	10.30 - 19.70	210		F	#	50	-
	mg/L	0476	WL, EXT	05/25/2005	0001	10.30 - 19.70	81			#	5	-
	mg/L	0476	WL, EXT	06/23/2005	0001	10.30 - 19.70	230			#	50	-
	mg/L	0476	WL, EXT	07/27/2005	0001	10.30 - 19.70	240			#	50	-
	mg/L	0476	WL, EXT	08/25/2005	0001	10.30 - 19.70	220			#	20	-
	mg/L	0476	WL, EXT	09/29/2005	0001	10.30 - 19.70	210			#	20	-
	mg/L	0476	WL, EXT	10/13/2005	0001	10.30 - 19.70	200			#	50	-
	mg/L	0476	WL, EXT	11/10/2005	0001	10.30 - 19.70	230			#	10	-
	mg/L	0476	WL, EXT	12/05/2005	0001	10.30 - 19.70	240			#	20	-
	mg/L	0477	WL, EXT	01/26/2005	0001	17.00 - 17.00	600			#	50	-
	mg/L	0477	WL, EXT	02/23/2005	0001	10.30 - 19.70	390			#	50	-
	mg/L	0477	WL, EXT	03/15/2005	0001	10.30 - 19.70	360		F	#	10	-

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0477	WL, EXT	04/27/2005	0001	10.30 - 19.70	170		F	#	50	-
	mg/L	0477	WL, EXT	05/25/2005	0001	10.30 - 19.70	100			#	5	-
	mg/L	0477	WL, EXT	06/23/2005	0001	10.30 - 19.70	260			#	50	-
	mg/L	0477	WL, EXT	07/27/2005	0001	10.30 - 19.70	260			#	50	-
	mg/L	0477	WL, EXT	08/25/2005	0001	10.30 - 19.70	250			#	20	-
	mg/L	0477	WL, EXT	08/25/2005	0002	10.30 - 19.70	250			#	20	-
	mg/L	0477	WL, EXT	09/29/2005	0001	10.30 - 19.70	240			#	20	-
	mg/L	0477	WL, EXT	10/13/2005	0001	10.30 - 19.70	250			#	50	-
	mg/L	0477	WL, EXT	11/10/2005	0001	10.30 - 19.70	210			#	10	-
	mg/L	0477	WL, EXT	12/05/2005	0001	10.30 - 19.70	200			#	20	-
	mg/L	0477	WL, EXT	12/05/2005	0002	10.30 - 19.70	120			#	20	-
	mg/L	0478	WL, EXT	01/26/2005	0001	20.00 - 20.00	680			#	50	-
	mg/L	0478	WL, EXT	02/23/2005	0001	9.60 - 23.90	470			#	50	-
	mg/L	0478	WL, EXT	03/15/2005	0001	9.60 - 23.90	420		F	#	10	-
	mg/L	0478	WL, EXT	04/27/2005	0001	9.60 - 23.90	310		F	#	50	-
	mg/L	0478	WL, EXT	05/25/2005	0001	9.60 - 23.90	110			#	5	-
	mg/L	0478	WL, EXT	06/23/2005	0001	9.60 - 23.90	280			#	50	-
	mg/L	0478	WL, EXT	07/27/2005	0001	9.60 - 23.90	470			#	50	-
	mg/L	0478	WL, EXT	08/25/2005	0001	9.60 - 23.90	370			#	20	-
	mg/L	0478	WL, EXT	09/29/2005	0001	9.60 - 23.90	390			#	20	-
	mg/L	0478	WL, EXT	10/13/2005	0001	9.60 - 23.90	400			#	50	-
	mg/L	0478	WL, EXT	11/10/2005	0001	9.60 - 23.90	290			#	10	-
	mg/L	0478	WL, EXT	12/05/2005	0001	9.60 - 23.90	310			#	20	-
	mg/L	0479	WL, EXT	01/26/2005	0001	20.00 - 20.00	1100			#	50	-
	mg/L	0479	WL, EXT	02/23/2005	0001	9.30 - 23.60	500			#	50	-
	mg/L	0479	WL, EXT	03/15/2005	0001	9.30 - 23.60	400		F	#	10	-

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0479	WL, EXT	04/27/2005	0001	9.30 - 23.60	200		F	#	50	-
	mg/L	0479	WL, EXT	05/25/2005	0001	9.30 - 23.60	64			#	5	-
	mg/L	0479	WL, EXT	05/25/2005	0002	9.30 - 23.60	69			#	5	-
	mg/L	0479	WL, EXT	06/23/2005	0001	9.30 - 23.60	150			#	5	-
	mg/L	0479	WL, EXT	07/27/2005	0001	9.30 - 23.60	330			#	50	-
	mg/L	0479	WL, EXT	08/25/2005	0001	9.30 - 23.60	300			#	20	-
	mg/L	0479	WL, EXT	09/29/2005	0001	9.30 - 23.60	330			#	20	-
	mg/L	0479	WL, EXT	09/29/2005	0002	9.30 - 23.60	330			#	20	-
	mg/L	0479	WL, EXT	10/13/2005	0001	9.30 - 23.60	350			#	50	-
	mg/L	0479	WL, EXT	11/10/2005	0001	9.30 - 23.60	260			#	10	-
	mg/L	0479	WL, EXT	12/05/2005	0001	9.30 - 23.60	310			#	20	-
	mg/L	0480	WL	01/26/2005	0001	18.00 - 18.00	770		F	#	50	-
	mg/L	0481	WL	01/26/2005	0001	28.00 - 28.00	800		F	#	50	-
	mg/L	0482	WL	01/26/2005	0001	58.00 - 58.00	570		F	#	50	-
	mg/L	0483	WL	01/26/2005	0001	18.00 - 18.00	320		F	#	50	-
	mg/L	0483	WL	02/23/2005	0001	18.00 - 18.00	310		F	#	50	-
	mg/L	0483	WL	03/15/2005	0001	18.00 - 18.00	450		F	#	10	-
	mg/L	0483	WL	04/27/2005	0001	18.00 - 18.00	470		F	#	50	-
	mg/L	0483	WL	05/25/2005	0001	18.00 - 18.00	51			#	5	-
	mg/L	0483	WL	06/24/2005	0001	18.00 - 18.00	82		F	#	2	-
	mg/L	0483	WL	07/26/2005	0001	18.00 - 18.00	560		F	#	50	-
	mg/L	0483	WL	08/24/2005	0001	18.00 - 18.00	430		F	#	20	-
	mg/L	0483	WL	09/28/2005	0001	18.00 - 18.00	430		F	#	20	-
	mg/L	0483	WL	10/27/2005	0001	18.00 - 18.00	340.000		F	#	5.49	-
	mg/L	0483	WL	12/13/2005	0001	18.00 - 18.00	327.000				5.49	-
	mg/L	0484	WL	01/27/2005	0001	28.00 - 28.00	1100		F	#	50	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
REPORT DATE: 2/27/2006 10:10 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0484	WL	10/12/2005	0001	28.00 - 28.00	1500		F	#	50	-
	mg/L	0484	WL	12/07/2005	0001	28.00 - 28.00	1600		F	#	50	-
	mg/L	0485	WL	01/27/2005	0001	58.00 - 58.00	500		F	#	50	-
	mg/L	0488	WL	05/26/2005	0001	33.00 - 33.00	740		F	#	20	-
	mg/L	0488	WL	10/11/2005	0001	39.00 - 39.00	760		F	#	50	-
	mg/L	0488	WL	10/11/2005	0002	39.00 - 39.00	780		F	#	50	-
	mg/L	0488	WL	10/26/2005	0001	26.00 - 26.00	722.000		F	#	5.49	-
	mg/L	0488	WL	11/09/2005	0001	39.00 - 39.00	780		F	#	20	-
	mg/L	0488	WL	11/09/2005	0001	26.00 - 26.00	700		F	#	20	-
	mg/L	0488	WL	12/08/2005	0001	39.00 - 39.00	750		F	#	50	-
	mg/L	0488	WL	12/08/2005	0002	0.00 - 0.00	790		F	#	50	-
	mg/L	0488	WL	12/14/2005	0001	26.00 - 26.00	764.000				5.49	-
	mg/L	0488	WL	12/14/2005	0003	26.00 - 26.00	740.000				8.78	-
	mg/L	0492	WL	04/20/2005	0001	18.10 - 18.10	61		F	#	2	-
	mg/L	0492	WL	07/12/2005	0001	18.10 - 18.10	4		F	#	0.1	-
	mg/L	0492	WL	11/02/2005	0001	16.16 - 16.16	66		F	#	20	-
	mg/L	0493	WL	05/26/2005	0001	54.00 - 54.00	960		F	#	20	-
	mg/L	0493	WL	05/26/2005	0001	46.00 - 46.00	1000		F	#	50	-
	mg/L	0493	WL	10/11/2005	0001	54.00 - 54.00	1100		F	#	50	-
	mg/L	0493	WL	10/11/2005	0001	46.00 - 46.00	800		F	#	50	-
	mg/L	0493	WL	11/09/2005	0001	54.00 - 54.00	1100		F	#	50	-
	mg/L	0493	WL	12/08/2005	0001	54.00 - 54.00	1100		F	#	50	-
	mg/L	0495	WL, PZ	10/26/2005	0001	5.10 - 5.10	71.300		QF	#	5.49	-
	mg/L	0495	WL, PZ	12/13/2005	0001	5.10 - 5.10	75.200				2.19	-
	mg/L	0496	WL, PZ	10/12/2005	0001	2.70 - 2.70	370		FQ	#	50	-
	mg/L	0496	WL, PZ	11/09/2005	0001	2.70 - 2.70	330		QF	#	20	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
REPORT DATE: 2/27/2006 10:10 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0496	WL, PZ	12/07/2005	0001	2.70 - 2.70	380		QF	#	50	-
	mg/L	0497	WL, PZ	10/12/2005	0001	4.80 - 4.80	360		FQ	#	50	-
	mg/L	0497	WL, PZ	11/09/2005	0001	4.80 - 4.80	440		QF	#	20	-
	mg/L	0497	WL, PZ	12/07/2005	0001	4.80 - 4.80	410		QF	#	50	-
	mg/L	0537	TS, SUMP	02/24/2005	0001	0.00 - 0.00	5300			#	200	-
	mg/L	0547	TS, INFL	02/23/2005	0001	0.00 - 0.00	580			#	50	-
	mg/L	0547	TS, INFL	03/15/2005	0001	0.00 - 0.00	620			#	20	-
	mg/L	0547	TS, INFL	04/28/2005	0001	0.00 - 0.00	840			#	50	-
	mg/L	0547	TS, INFL	05/25/2005	0001	0.00 - 0.00	540			#	20	-
	mg/L	0547	TS, INFL	06/23/2005	0001	0.00 - 0.00	590			#	50	-
	mg/L	0547	TS, INFL	07/27/2005	0001	0.00 - 0.00	710			#	50	-
	mg/L	0547	TS, INFL	08/25/2005	0001	0.00 - 0.00	550			#	20	-
	mg/L	0547	TS, INFL	09/29/2005	0001	0.00 - 0.00	530			#	20	-
	mg/L	0547	TS, INFL	10/13/2005	0001	0.00 - 0.00	560			#	50	-
	mg/L	0547	TS, INFL	11/11/2005	0001	0.00 - 0.00	460			#	10	-
	mg/L	0547	TS, INFL	12/06/2005	0001	0.00 - 0.00	560			#	20	-
	mg/L	0548	TS, EPND	04/28/2005	0001	0.00 - 0.00	930			#	50	-
	mg/L	0548	TS, EPND	05/25/2005	0001	0.00 - 0.00	930			#	50	-
	mg/L	0548	TS, EPND	06/23/2005	0001	0.00 - 0.00	840			#	50	-
	mg/L	0548	TS, EPND	07/27/2005	0001	0.00 - 0.00	890			#	50	-
	mg/L	0548	TS, EPND	08/25/2005	0001	0.00 - 0.00	660			#	20	-
	mg/L	0548	TS, EPND	09/29/2005	0001	0.00 - 0.00	580			#	20	-
	mg/L	0548	TS, EPND	10/13/2005	0001	0.00 - 0.00	580			#	20	-
	mg/L	0548	TS, EPND	11/11/2005	0001	0.00 - 0.00	470			#	10	-
	mg/L	0548	TS, EPND	12/06/2005	0001	0.00 - 0.00	560			#	20	-
	mg/L	0549	IS, IHYD	01/28/2005	0001	0.00 - 0.00	0.1	U		#	0.1	-

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0549	IS, IHYD	02/25/2005	0001	0.00 - 0.00	0.1	U		#	0.1	-
	mg/L	0549	IS, IHYD	03/15/2005	0001	0.00 - 0.00	0.1	U		#	0.1	-
	mg/L	0550	IS, IHYD	04/26/2005	0001	0.00 - 0.00	0.1	U		#	0.1	-
	mg/L	0550	IS, IHYD	05/25/2005	0001	0.00 - 0.00	0.1	U		#	0.1	-
	mg/L	0550	IS, IHYD	06/24/2005	N001	0.00 - 0.00	0.1	U		#	0.1	-
	mg/L	0550	IS, IHYD	07/27/2005	0001	0.00 - 0.00	0.1	U		#	0.1	-
	mg/L	0550	IS, IHYD	08/25/2005	0001	0.00 - 0.00	0.1	U		#	0.1	-
	mg/L	0550	IS, IHYD	10/20/2005	0001	0.00 - 0.00	0.12			#	0.1	-
	mg/L	0550	IS, IHYD	11/15/2005	0001	0.00 - 0.00	0.1	U		#	0.1	-
	mg/L	0550	IS, IHYD	12/09/2005	0001	0.00 - 0.00	0.1	U		#	0.1	-
	mg/L	0557	WL	01/26/2005	0001	36.00 - 36.00	860		F	#	50	-
	mg/L	0557	WL	01/26/2005	0001	44.00 - 44.00	2300		F	#	50	-
	mg/L	0557	WL	02/24/2005	0001	40.00 - 40.00	950		F	#	50	-
	mg/L	0557	WL	03/15/2005	0001	40.00 - 40.00	1000		F	#	50	-
	mg/L	0557	WL	04/27/2005	0001	40.00 - 40.00	1700		F	#	50	-
	mg/L	0557	WL	05/25/2005	0001	40.00 - 40.00	2400		F	#	50	-
	mg/L	0557	WL	06/24/2005	0001	40.00 - 40.00	1000		F	#	50	-
	mg/L	0557	WL	07/26/2005	0001	40.00 - 40.00	1700		F	#	50	-
	mg/L	0557	WL	08/24/2005	0001	40.00 - 40.00	1500		F	#	50	-
	mg/L	0557	WL	09/28/2005	0001	40.00 - 40.00	1300		F	#	50	-
	mg/L	0557	WL	10/12/2005	0001	40.00 - 40.00	1000		F	#	50	-
	mg/L	0557	WL	10/12/2005	0002	40.00 - 40.00	1000		F	#	50	-
	mg/L	0557	WL	11/10/2005	0001	40.00 - 40.00	1100		F	#	50	-
	mg/L	0557	WL	12/07/2005	0001	40.00 - 40.00	1600		F	#	50	-
	mg/L	0558	WL	01/27/2005	0001	44.00 - 44.00	1700		F	#	50	-
	mg/L	0558	WL	01/27/2005	0001	36.00 - 36.00	2200		F	#	50	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
REPORT DATE: 2/27/2006 10:10 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0558	WL	01/27/2005	0002	36.00 - 36.00	2100		F	#	50	-
	mg/L	0558	WL	10/12/2005	0001	36.00 - 36.00	2100		F	#	50	-
	mg/L	0558	WL	12/07/2005	0001	36.00 - 36.00	1400		F	#	50	-
	mg/L	0559	WL	01/27/2005	0001	19.00 - 19.00	130			#	5	-
	mg/L	0559	WL	02/23/2005	0001	19.00 - 19.00	140		F	#	10	-
	mg/L	0559	WL	02/23/2005	0002	19.00 - 19.00	140		F	#	10	-
	mg/L	0559	WL	03/14/2005	0001	19.00 - 19.00	180		F	#	10	-
	mg/L	0559	WL	04/27/2005	0001	19.00 - 19.00	140		F	#	10	-
	mg/L	0559	WL	05/25/2005	0001	19.00 - 19.00	15		F	#	5	-
	mg/L	0559	WL	06/23/2005	0001	19.00 - 19.00	31		F	#	1	-
	mg/L	0559	WL	06/23/2005	0002	10.52 - 20.45	30		F	#	1	-
	mg/L	0559	WL	07/26/2005	0001	19.00 - 19.00	48		F	#	1	-
	mg/L	0559	WL	08/24/2005	0001	19.00 - 19.00	140		F	#	20	-
	mg/L	0559	WL	09/27/2005	0001	19.00 - 19.00	150		F	#	20	-
	mg/L	0559	WL	10/27/2005	0001	19.00 - 19.00	134.000		F	#	5.49	-
	mg/L	0559	WL	12/13/2005	0001	19.00 - 19.00	169.000				2.19	-
	mg/L	0560	WL	01/27/2005	0001	31.00 - 31.00	2200		F	#	50	-
	mg/L	0560	WL	01/27/2005	0001	39.00 - 39.00	2200		F	#	50	-
	mg/L	0560	WL	02/24/2005	0001	31.00 - 31.00	2100		F	#	50	-
	mg/L	0560	WL	03/14/2005	0001	31.00 - 31.00	1800		F	#	50	-
	mg/L	0560	WL	04/27/2005	0001	31.00 - 31.00	2100		F	#	50	-
	mg/L	0560	WL	04/27/2005	0002	31.00 - 31.00	2100		F	#	50	-
	mg/L	0560	WL	05/25/2005	0001	31.00 - 31.00	1700		F	#	50	-
	mg/L	0560	WL	06/23/2005	0001	31.00 - 31.00	650		F	#	50	-
	mg/L	0560	WL	07/26/2005	0001	31.00 - 31.00	1700		F	#	50	-
	mg/L	0560	WL	07/26/2005	0002	30.00 - 40.00	1700		F	#	50	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
REPORT DATE: 2/27/2006 10:10 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0560	WL	08/24/2005	0001	31.00 - 31.00	1600		F	#	50	-
	mg/L	0560	WL	09/27/2005	0001	31.00 - 31.00	1500		F	#	50	-
	mg/L	0560	WL	10/12/2005	0001	31.00 - 31.00	1200		F	#	50	-
	mg/L	0560	WL	11/10/2005	0001	31.00 - 31.00	1500		F	#	50	-
	mg/L	0560	WL	11/10/2005	0002	31.00 - 31.00	1500		F	#	50	-
	mg/L	0560	WL	12/06/2005	0001	31.00 - 31.00	1300		F	#	50	-
	mg/L	0561	WL	01/27/2005	0001	54.00 - 54.00	820		F	#	50	-
	mg/L	0561	WL	01/27/2005	0001	46.00 - 46.00	1100		F	#	50	-
	mg/L	0562	WL, PZ	01/27/2005	N001	1.53 - 1.53	53		FQ	#	2	-
	mg/L	0562	WL, PZ	02/23/2005	N001	1.53 - 1.53	66		QF	#	5	-
	mg/L	0562	WL, PZ	03/15/2005	0001	1.53 - 1.53	53		QF	#	10	-
	mg/L	0562	WL, PZ	07/28/2005	0001	1.80 - 1.80	9.1		QF	#	0.5	-
	mg/L	0562	WL, PZ	08/25/2005	0001	1.80 - 1.80	6.8		FQ	#	0.2	-
	mg/L	0562	WL, PZ	09/28/2005	0001	1.80 - 1.80	5.7		QF	#	0.2	-
	mg/L	0562	WL, PZ	10/13/2005	0001	1.80 - 1.80	4.1		QF	#	0.1	-
	mg/L	0562	WL, PZ	11/09/2005	0001	1.80 - 1.80	3.5		QF	#	0.1	-
	mg/L	0562	WL, PZ	12/07/2005	0001	1.80 - 1.80	2.6		QF	#	0.1	-
	mg/L	0563	WL, PZ	01/27/2005	N001	3.95 - 3.95	97		FQ	#	5	-
	mg/L	0563	WL, PZ	02/23/2005	N001	3.95 - 3.95	91		QF	#	5	-
	mg/L	0563	WL, PZ	03/15/2005	0001	3.95 - 3.95	110		QF	#	10	-
	mg/L	0563	WL, PZ	07/28/2005	0001	5.10 - 5.10	9.2		QF	#	0.5	-
	mg/L	0563	WL, PZ	07/28/2005	0002	5.10 - 5.10	36		QF	#	1	-
	mg/L	0563	WL, PZ	08/25/2005	0001	5.10 - 5.10	17		FQ	#	0.5	-
	mg/L	0563	WL, PZ	09/28/2005	0001	5.10 - 5.10	9.9		QF	#	0.2	-
	mg/L	0563	WL, PZ	10/27/2005	0001	5.10 - 5.10	10.100		QF	#	0.0549	-
	mg/L	0564	WL, PZ	01/27/2005	N001	1.32 - 1.32	0.85		FQ	#	0.1	-

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0564	WL, PZ	02/23/2005	N001	1.32 - 1.32	0.63		QF	#	0.1	-
	mg/L	0564	WL, PZ	03/15/2005	0001	1.32 - 1.32	0.62		QF	#	0.1	-
	mg/L	0564	WL, PZ	08/26/2005	0001	1.70 - 1.70	1.3		FQ	#	0.1	-
	mg/L	0564	WL, PZ	09/28/2005	0001	1.70 - 1.70	0.51		QF	#	0.1	-
	mg/L	0564	WL, PZ	10/13/2005	0001	1.70 - 1.70	0.16		QF	#	0.1	-
	mg/L	0564	WL, PZ	11/09/2005	0001	1.70 - 1.70	0.14		QF	#	0.1	-
	mg/L	0564	WL, PZ	12/07/2005	0001	1.70 - 1.70	0.18		QF	#	0.1	-
	mg/L	0565	WL, PZ	01/27/2005	N001	4.32 - 4.32	26		FQ	#	1	-
	mg/L	0565	WL, PZ	02/23/2005	N001	4.32 - 4.32	31		QF	#	2	-
	mg/L	0565	WL, PZ	03/15/2005	0001	4.32 - 4.32	28		QF	#	1	-
	mg/L	0565	WL, PZ	08/26/2005	0001	4.50 - 4.50	14		FQ	#	0.5	-
	mg/L	0565	WL, PZ	09/28/2005	0001	4.50 - 4.50	13		QF	#	0.5	-
	mg/L	0565	WL, PZ	10/27/2005	0001	4.50 - 4.50	10.700		QF	#	0.219	-
	mg/L	0572	WL, I&E	04/26/2005	0001	15.00 - 30.00	0.1	U	F	#	0.1	-
	mg/L	0577	WL, I&E	04/26/2005	0001	25.00 - 40.00	0.1	U	F	#	0.1	-
	mg/L	0580	WL	01/28/2005	0001	18.00 - 18.00	8.8		F	#	0.5	-
	mg/L	0580	WL	02/24/2005	0001	18.00 - 18.00	5.6		F	#	0.2	-
	mg/L	0580	WL	02/24/2005	0002	18.00 - 18.00	5.8		F	#	0.2	-
	mg/L	0580	WL	03/16/2005	0001	18.00 - 18.00	5.5		F	#	0.2	-
	mg/L	0580	WL	04/26/2005	0001	18.00 - 18.00	52		F	#	2	-
	mg/L	0580	WL	05/24/2005	0001	18.00 - 18.00	25		F	#	5	-
	mg/L	0580	WL	06/22/2005	N001	18.00 - 18.00	9.5		F	#	0.5	-
	mg/L	0580	WL	07/28/2005	0001	18.00 - 18.00	6		F	#	0.2	-
	mg/L	0580	WL	08/25/2005	0001	18.00 - 18.00	21		F	#	5	-
	mg/L	0580	WL	09/28/2005	0001	18.00 - 18.00	24		F	#	0.5	-
	mg/L	0580	WL	10/19/2005	0001	18.00 - 18.00	24		F	#	1	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
REPORT DATE: 2/27/2006 10:10 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0580	WL	11/10/2005	0001	18.00 - 18.00	36		F	#	1	-
	mg/L	0580	WL	12/08/2005	0001	18.00 - 18.00	40		F	#	1	-
	mg/L	0581	WL	02/24/2005	0001	18.00 - 18.00	110		F	#	20	-
	mg/L	0581	WL	03/16/2005	0001	18.00 - 18.00	92		F	#	10	-
	mg/L	0581	WL	04/26/2005	0001	18.00 - 18.00	85		F	#	20	-
	mg/L	0581	WL	05/24/2005	0001	18.00 - 18.00	67		F	#	5	-
	mg/L	0581	WL	06/22/2005	N002	18.00 - 18.00	81		F	#	5	-
	mg/L	0581	WL	09/28/2005	0001	18.00 - 18.00	110		F	#	20	-
	mg/L	0581	WL	10/19/2005	0001	18.00 - 18.00	110		F	#	20	-
	mg/L	0581	WL	11/10/2005	0001	18.00 - 18.00	110		F	#	20	-
	mg/L	0581	WL	11/10/2005	0002	18.00 - 18.00	110		F	#	20	-
	mg/L	0581	WL	12/08/2005	0001	18.00 - 18.00	100		F	#	5	-
	mg/L	0582	WL	01/28/2005	0001	18.00 - 18.00	68		F	#	5	-
	mg/L	0582	WL	02/24/2005	0001	18.00 - 18.00	70		F	#	20	-
	mg/L	0582	WL	04/26/2005	0001	18.00 - 18.00	86		F	#	20	-
	mg/L	0582	WL	05/24/2005	0001	18.00 - 18.00	44		F	#	5	-
	mg/L	0582	WL	06/22/2005	N001	18.00 - 18.00	79		F	#	2	-
	mg/L	0582	WL	07/28/2005	0001	18.00 - 18.00	100		F	#	5	-
	mg/L	0582	WL	09/28/2005	0001	18.00 - 18.00	53		F	#	5	-
	mg/L	0582	WL	09/28/2005	0002	18.00 - 18.00	59		F	#	2	-
	mg/L	0582	WL	10/19/2005	0001	18.00 - 18.00	63		F	#	2	-
	mg/L	0582	WL	11/10/2005	0001	18.00 - 18.00	65		F	#	2	-
	mg/L	0582	WL	12/08/2005	0001	18.00 - 18.00	60		F	#	2	-
	mg/L	0583	WL	01/28/2005	0001	18.00 - 18.00	300		F	#	50	-
	mg/L	0583	WL	02/25/2005	0001	18.00 - 18.00	270		F	#	20	-
	mg/L	0583	WL	04/26/2005	0001	18.00 - 18.00	150		F	#	20	-

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0583	WL	05/24/2005	0001	18.00 - 18.00	77		F	#	5	-
	mg/L	0583	WL	06/22/2005	N001	18.00 - 18.00	82		F	#	2	-
	mg/L	0583	WL	07/28/2005	0001	18.00 - 18.00	170		F	#	50	-
	mg/L	0583	WL	08/26/2005	0001	18.00 - 18.00	200		F	#	5	-
	mg/L	0583	WL	09/28/2005	0001	18.00 - 18.00	270		F	#	20	-
	mg/L	0583	WL	10/19/2005	0001	18.00 - 18.00	340		F	#	20	-
	mg/L	0583	WL	11/15/2005	0001	18.00 - 18.00	290		F	#	20	-
	mg/L	0583	WL	12/08/2005	0001	18.00 - 18.00	310		F	#	50	-
	mg/L	0583	WL	12/08/2005	0002	0.00 - 0.00	310		F	#	50	-
	mg/L	0584	WL	01/28/2005	0001	18.00 - 18.00	250		F	#	50	-
	mg/L	0584	WL	02/25/2005	0001	18.00 - 18.00	210		F	#	20	-
	mg/L	0584	WL	03/16/2005	0001	18.00 - 18.00	170		F	#	10	-
	mg/L	0584	WL	05/24/2005	0001	18.00 - 18.00	59		F	#	5	-
	mg/L	0584	WL	05/24/2005	0002	18.00 - 18.00	62		F	#	5	-
	mg/L	0584	WL	06/22/2005	N001	18.00 - 18.00	26		F	#	1	-
	mg/L	0584	WL	07/28/2005	0001	18.00 - 18.00	130		F	#	5	-
	mg/L	0584	WL	09/28/2005	0001	18.00 - 18.00	210		F	#	20	-
	mg/L	0584	WL	10/19/2005	0001	18.00 - 18.00	280		F	#	20	-
	mg/L	0584	WL	10/19/2005	0002	18.00 - 18.00	270		F	#	20	-
	mg/L	0584	WL	11/15/2005	0001	18.00 - 18.00	250		F	#	10	-
	mg/L	0584	WL	12/09/2005	0001	18.00 - 18.00	330		F	#	50	-
	mg/L	0585	WL	04/27/2005	0001	18.00 - 18.00	38		F	#	2	-
	mg/L	0585	WL	06/22/2005	N001	18.00 - 18.00	45		F	#	10	-
	mg/L	0585	WL	06/22/2005	N002	18.00 - 18.00	46		F	#	2	-
	mg/L	0585	WL	07/28/2005	0001	18.00 - 18.00	37		F	#	1	-
	mg/L	0585	WL	08/26/2005	0001	18.00 - 18.00	44		F	#	5	-

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0585	WL	10/19/2005	0001	18.00 - 18.00	120		F	#	20	-
	mg/L	0585	WL	11/15/2005	0001	18.00 - 18.00	25		F	#	1	-
	mg/L	0585	WL	12/09/2005	0001	18.00 - 18.00	31		F	#	1	-
	mg/L	0586	WL	04/27/2005	0001	18.00 - 18.00	7.2		F	#	0.2	-
	mg/L	0586	WL	05/26/2005	0001	18.00 - 18.00	11		F	#	0.5	-
	mg/L	0586	WL	06/24/2005	N001	18.00 - 18.00	41		F	#	1	-
	mg/L	0586	WL	07/28/2005	0001	18.00 - 18.00	160		F	#	10	-
	mg/L	0586	WL	08/26/2005	0001	18.00 - 18.00	61		F	#	5	-
	mg/L	0586	WL	09/28/2005	0001	18.00 - 18.00	70		F	#	20	-
	mg/L	0586	WL	10/20/2005	0001	18.00 - 18.00	21		F	#	1	-
	mg/L	0586	WL	11/15/2005	0001	18.00 - 18.00	16		F	#	0.5	-
	mg/L	0586	WL	12/09/2005	0001	18.00 - 18.00	45		F	#	1	-
	mg/L	0587	WL	01/28/2005	0001	18.00 - 18.00	25		F	#	1	-
	mg/L	0587	WL	02/24/2005	0001	18.00 - 18.00	32		F	#	2	-
	mg/L	0587	WL	04/27/2005	0001	18.00 - 18.00	47		F	#	2	-
	mg/L	0587	WL	07/27/2005	0001	18.00 - 18.00	30		F	#	1	-
	mg/L	0587	WL	08/25/2005	0001	18.00 - 18.00	19		F	#	5	-
	mg/L	0587	WL	10/19/2005	0001	18.00 - 18.00	38		F	#	1	-
	mg/L	0587	WL	11/10/2005	0001	18.00 - 18.00	39		F	#	1	-
	mg/L	0587	WL	12/09/2005	0001	18.00 - 18.00	32		F	#	1	-
	mg/L	0588	WL	02/25/2005	0001	34.00 - 34.00	9.8		F	#	0.5	-
	mg/L	0588	WL	03/16/2005	0001	34.00 - 34.00	11		F	#	0.5	-
	mg/L	0588	WL	04/27/2005	0001	34.00 - 34.00	30		F	#	2	-
	mg/L	0588	WL	05/24/2005	0001	34.00 - 34.00	24		F	#	5	-
	mg/L	0588	WL	06/22/2005	N001	34.00 - 34.00	54		F	#	10	-
	mg/L	0588	WL	07/27/2005	0001	34.00 - 34.00	22		F	#	0.5	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
REPORT DATE: 2/27/2006 10:10 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0588	WL	07/27/2005	0002	34.00 - 34.00	21		F	#	0.5	-
	mg/L	0588	WL	08/26/2005	0001	34.00 - 34.00	21		F	#	5	-
	mg/L	0588	WL	09/28/2005	0001	34.00 - 34.00	270		F	#	20	-
	mg/L	0588	WL	10/19/2005	0001	34.00 - 34.00	77		F	#	20	-
	mg/L	0588	WL	10/27/2005	0001	26.00 - 26.00	28.000		F	#	0.549	-
	mg/L	0588	WL	11/10/2005	0001	30.00 - 30.00	47		F	#	2	-
	mg/L	0588	WL	12/09/2005	0001	34.00 - 34.00	350		F	#	20	-
	mg/L	0588	WL	12/16/2005	0001	26.00 - 26.00	36.700				0.549	-
	mg/L	0589	WL	01/28/2005	0001	44.00 - 44.00	810		F	#	50	-
	mg/L	0589	WL	02/24/2005	0001	44.00 - 44.00	920		F	#	20	-
	mg/L	0589	WL	02/24/2005	0001	52.00 - 52.00	1000		F	#	20	-
	mg/L	0589	WL	03/16/2005	0001	44.00 - 44.00	930		F	#	20	-
	mg/L	0589	WL	04/27/2005	0001	44.00 - 44.00	860		F	#	20	-
	mg/L	0589	WL	04/27/2005	0002	44.00 - 44.00	890		F	#	20	-
	mg/L	0589	WL	05/24/2005	0001	44.00 - 44.00	360		F	#	10	-
	mg/L	0589	WL	06/22/2005	N001	44.00 - 44.00	730		F	#	20	-
	mg/L	0589	WL	07/27/2005	0001	44.00 - 44.00	810		F	#	50	-
	mg/L	0589	WL	08/25/2005	0001	44.00 - 44.00	690		F	#	20	-
	mg/L	0589	WL	09/28/2005	0001	44.00 - 44.00	820		F	#	20	-
	mg/L	0589	WL	10/19/2005	0001	52.00 - 52.00	700		F	#	20	-
	mg/L	0589	WL	10/27/2005	0001	44.00 - 44.00	772.000		F	#	5.49	-
	mg/L	0589	WL	10/27/2005	0003	44.00 - 44.00	754.000		F	#	5.49	-
	mg/L	0589	WL	11/10/2005	0001	48.00 - 48.00	830		F	#	20	-
	mg/L	0589	WL	11/29/2005	0001	44.00 - 44.00	917.000		F	#	5.49	-
	mg/L	0589	WL	11/29/2005	0003	44.00 - 44.00	987.000		F	#	5.49	-
	mg/L	0589	WL	12/09/2005	0001	52.00 - 52.00	880		F	#	50	-

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0589	WL	12/09/2005	0002	0.00 - 0.00	870		F	#	50	-
	mg/L	0589	WL	12/16/2005	0001	44.00 - 44.00	933.000				5.49	-
	mg/L	0590	WL, PZ	01/27/2005	N001	1.08 - 1.08	83		FQ	#	5	-
	mg/L	0590	WL, PZ	02/23/2005	N001	1.08 - 1.08	88		QF	#	20	-
	mg/L	0590	WL, PZ	03/15/2005	0001	1.08 - 1.08	94		QF	#	10	-
	mg/L	0590	WL, PZ	07/28/2005	0001	1.50 - 1.50	60		QF	#	2	-
	mg/L	0590	WL, PZ	08/25/2005	0001	1.50 - 1.50	48		FQ	#	5	-
	mg/L	0590	WL, PZ	09/28/2005	0001	1.50 - 1.50	38		QF	#	2	-
	mg/L	0590	WL, PZ	10/19/2005	0001	1.50 - 1.50	66		FQ	#	20	-
	mg/L	0590	WL, PZ	11/09/2005	0001	1.50 - 1.50	63		QF	#	2	-
	mg/L	0590	WL, PZ	12/07/2005	0001	1.50 - 1.50	57		QF	#	2	-
	mg/L	0591	WL, PZ	01/26/2005	0001	4.22 - 4.22	170		FQ	#	5	-
	mg/L	0591	WL, PZ	01/27/2005	N002	4.22 - 4.22	150		FQ	#	50	-
	mg/L	0591	WL, PZ	02/22/2005	0001	4.22 - 4.22	110		QF	#	20	-
	mg/L	0591	WL, PZ	02/24/2005	N002	4.22 - 4.22	110		QF	#	20	-
	mg/L	0591	WL, PZ	03/14/2005	0001	4.22 - 4.22	92		QF	#	10	-
	mg/L	0591	WL, PZ	03/15/2005	0002	4.22 - 4.22	90		QF	#	10	-
	mg/L	0591	WL, PZ	08/26/2005	0001	4.40 - 4.40	130		FQ	#	5	-
	mg/L	0591	WL, PZ	09/28/2005	0001	4.40 - 4.40	110		QF	#	20	-
	mg/L	0591	WL, PZ	10/26/2005	0001	4.40 - 4.40	132.000		QF	#	5.49	-
	mg/L	0591	WL, PZ	12/13/2005	0001	4.40 - 4.40	135.000				2.19	-
	mg/L	0592	WL, PZ	01/27/2005	N001	2.10 - 2.10	540		FQ	#	50	-
	mg/L	0592	WL, PZ	02/23/2005	N001	2.10 - 2.10	410		QF	#	20	-
	mg/L	0592	WL, PZ	03/15/2005	0001	2.10 - 2.10	280		QF	#	10	-
	mg/L	0593	WL, PZ	01/26/2005	0001	4.13 - 4.13	840		F	#	50	-
	mg/L	0593	WL, PZ	01/26/2005	N002	4.13 - 4.13	780		F	#	50	-

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0593	WL, PZ	02/22/2005	0001	4.13 - 4.13	680		QF	#	20	-
	mg/L	0593	WL, PZ	02/23/2005	N002	4.13 - 4.13	710		QF	#	20	-
	mg/L	0593	WL, PZ	03/14/2005	0001	4.13 - 4.13	600		F	#	20	-
	mg/L	0593	WL, PZ	03/14/2005	0002	4.13 - 4.13	600		F	#	20	-
	mg/L	0596	WL	10/12/2005	0001	24.00 - 24.00	250		F	#	50	-
	mg/L	0596	WL	11/10/2005	0001	24.00 - 24.00	280		F	#	10	-
	mg/L	0596	WL	12/06/2005	0001	24.00 - 24.00	340		F	#	20	-
	mg/L	0596	WL	12/06/2005	0002	24.00 - 24.00	340		F	#	20	-
	mg/L	0597	WL, PZ	10/26/2005	0001	9.80 - 9.80	522.000		QF	#	5.49	-
	mg/L	0597	WL, PZ	12/13/2005	0001	9.80 - 9.80	455.000				5.49	-
	mg/L	0598	WL, PZ	10/12/2005	0001	9.60 - 9.60	550		FQ	#	50	-
	mg/L	0598	WL, PZ	11/09/2005	0001	9.60 - 9.60	520		QF	#	20	-
	mg/L	0598	WL, PZ	12/07/2005	0001	9.60 - 9.60	560		QF	#	50	-
	mg/L	0599	WL, PZ	10/12/2005	0001	9.90 - 9.90	490		F	#	50	-
	mg/L	0599	WL, PZ	11/09/2005	0001	9.90 - 9.90	490		QF	#	20	-
	mg/L	0599	WL, PZ	12/07/2005	0001	9.90 - 9.90	500		QF	#	50	-
	mg/L	0600	WL	10/19/2005	0001	18.00 - 18.00	430		F	#	20	-
	mg/L	0600	WL	11/10/2005	0001	28.00 - 28.00	730		F	#	20	-
	mg/L	0600	WL	12/09/2005	0001	27.00 - 27.00	780		F	#	50	-
	mg/L	0601	WL	10/20/2005	0001	18.00 - 18.00	520		F	#	20	-
	mg/L	0601	WL	10/20/2005	0002	18.00 - 18.00	520		F	#	20	-
	mg/L	0601	WL	11/15/2005	0001	28.00 - 28.00	460		F	#	10	-
	mg/L	0601	WL	12/09/2005	0001	28.00 - 28.00	600			#	50	-
	mg/L	0602	WL	10/27/2005	0001	18.00 - 18.00	73.900		F	#	5.49	-
	mg/L	0602	WL	11/29/2005	0001	18.00 - 18.00	116.000		F	#	5.49	-
	mg/L	0602	WL	12/16/2005	0001	18.00 - 18.00	141.000				2.19	-

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0603	WL, PZ	10/26/2005	0001	9.70 - 9.70	189.000		QF	#	5.49	-
	mg/L	0603	WL, PZ	11/29/2005	0001	9.70 - 9.70	208.000		F	#	5.49	-
	mg/L	0603	WL, PZ	12/13/2005	0001	9.70 - 9.70	222.000				5.49	-
	mg/L	0604	WL, PZ	10/26/2005	0001	7.80 - 7.80	335.000		QF	#	5.49	-
	mg/L	0605	WL, PZ	10/19/2005	0001	9.90 - 9.90	190		FQ	#	20	-
	mg/L	0605	WL, PZ	11/09/2005	0001	9.90 - 9.90	230		QF	#	20	-
	mg/L	0605	WL, PZ	12/07/2005	0001	9.90 - 9.90	220		QF	#	50	-
	mg/L	0606	WL, PZ	12/14/2005	0001	9.80 - 9.80	102.000				5.49	-
	mg/L	0607	WL, PZ	10/27/2005	0001	10.10 - 10.10	38.100		QF	#	0.549	-
	mg/L	0607	WL, PZ	12/14/2005	0001	10.10 - 10.10	59.600				2.19	-
	mg/L	0608	WL, PZ	10/13/2005	0001	9.40 - 9.40	110		QF	#	5	-
	mg/L	0608	WL, PZ	11/09/2005	0001	9.40 - 9.40	120		QF	#	10	-
	mg/L	0608	WL, PZ	12/07/2005	0001	9.40 - 9.40	140		QF	#	20	-
	mg/L	0611	WL, PZ	11/09/2005	0001	2.70 - 2.70	2.4		QF	#	0.1	-
	mg/L	0611	WL, PZ	12/07/2005	0001	2.70 - 2.70	2		QF	#	0.1	-
	mg/L	0612	WL, PZ	10/13/2005	0001	4.80 - 4.80	1.8		QF	#	0.1	-
	mg/L	0612	WL, PZ	11/09/2005	0001	4.80 - 4.80	1.5		QF	#	0.1	-
	mg/L	0612	WL, PZ	12/07/2005	0001	4.80 - 4.80	1.4		QF	#	0.1	-
	mg/L	0613	WL, PZ	10/19/2005	0001	1.70 - 1.70	330		FQ	#	20	-
	mg/L	0613	WL, PZ	11/09/2005	0001	1.70 - 1.70	240		QF	#	20	-
	mg/L	0613	WL, PZ	12/07/2005	0001	1.70 - 1.70	170		QF	#	50	-
	mg/L	0614	WL, PZ	10/26/2005	0001	5.60 - 5.60	339.000		QF	#	5.49	-
	mg/L	0614	WL, PZ	12/13/2005	0001	5.60 - 5.60	350.000				2.19	-
	mg/L	0615	WL, PZ	10/19/2005	0001	1.90 - 1.90	2		FQ	#	0.1	-
	mg/L	0615	WL, PZ	11/09/2005	0001	1.90 - 1.90	2.1		QF	#	0.1	-
	mg/L	0615	WL, PZ	12/07/2005	0001	1.90 - 1.90	2.7		QF	#	0.1	-

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0616	WL, PZ	10/19/2005	0001	5.80 - 5.80	93		FQ	#	20	-
	mg/L	0616	WL, PZ	11/09/2005	0001	5.80 - 5.80	100		QF	#	20	-
	mg/L	0616	WL, PZ	12/07/2005	0001	5.80 - 5.80	92		QF	#	5	-
	mg/L	0617	WL, PZ	10/12/2005	0001	2.20 - 2.20	60		FQ	#	2	-
	mg/L	0617	WL, PZ	11/09/2005	0001	2.20 - 2.20	79		QF	#	20	-
	mg/L	0617	WL, PZ	12/07/2005	0001	2.20 - 2.20	120		QF	#	5	-
	mg/L	0618	WL, PZ	10/12/2005	0001	5.80 - 5.80	200		FQ	#	50	-
	mg/L	0618	WL, PZ	11/09/2005	0001	5.80 - 5.80	490		QF	#	20	-
	mg/L	0618	WL, PZ	12/07/2005	0001	5.80 - 5.80	460		QF	#	50	-
	mg/L	0670	WL, EXT	08/09/2005	0001	16.00 - 16.00	90		F	#	20	-
	mg/L	0670	WL, EXT	08/09/2005	0001	44.00 - 44.00	400		F	#	20	-
	mg/L	0670	WL, EXT	08/09/2005	0001	30.00 - 30.00	410		F	#	20	-
	mg/L	0670	WL, EXT	09/29/2005	0001		400			#	20	-
	mg/L	0670	WL, EXT	10/20/2005	0001		290			#	20	-
	mg/L	0670	WL, EXT	11/09/2005	0001		180	N		#	10	-
	mg/L	0670	WL, EXT	12/06/2005	0001		300				50	-
	mg/L	0671	WL, EXT	08/09/2005	0001	16.00 - 16.00	180		F	#	20	-
	mg/L	0671	WL, EXT	08/09/2005	0001	30.00 - 30.00	180		F	#	20	-
	mg/L	0671	WL, EXT	08/09/2005	0001	44.00 - 44.00	230		F	#	20	-
	mg/L	0671	WL, EXT	09/29/2005	0001		520			#	20	-
	mg/L	0671	WL, EXT	10/20/2005	0001		520			#	20	-
	mg/L	0671	WL, EXT	11/09/2005	0001		420			#	10	-
	mg/L	0671	WL, EXT	12/06/2005	0001		440				50	-
	mg/L	0672	WL, EXT	08/09/2005	0001	16.00 - 16.00	56		F	#	2	-
	mg/L	0672	WL, EXT	08/09/2005	0001	30.00 - 30.00	710		F	#	20	-
	mg/L	0672	WL, EXT	08/09/2005	0001	44.00 - 44.00	960		F	#	20	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
REPORT DATE: 2/27/2006 10:10 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0672	WL, EXT	09/29/2005	0001		690			#	20	-
	mg/L	0672	WL, EXT	10/20/2005	0001		720			#	20	-
	mg/L	0672	WL, EXT	10/20/2005	0002		660			#	20	-
	mg/L	0672	WL, EXT	11/09/2005	0001		490			#	10	-
	mg/L	0672	WL, EXT	12/06/2005	0001		580				50	-
	mg/L	0673	WL, EXT	08/09/2005	0001	16.00 - 16.00	84		F	#	20	-
	mg/L	0673	WL, EXT	08/09/2005	0001	44.00 - 44.00	350		F	#	20	-
	mg/L	0673	WL, EXT	08/09/2005	0001	30.00 - 30.00	400		F	#	20	-
	mg/L	0673	WL, EXT	09/29/2005	0001		770			#	20	-
	mg/L	0673	WL, EXT	10/20/2005	0001		650			#	20	-
	mg/L	0673	WL, EXT	11/09/2005	0001		650			#	20	-
	mg/L	0673	WL, EXT	12/06/2005	0001		650				50	-
	mg/L	0674	WL, EXT	08/10/2005	0001	16.00 - 16.00	19		F	#	0.5	-
	mg/L	0674	WL, EXT	08/10/2005	0001	30.00 - 30.00	210		F	#	20	-
	mg/L	0674	WL, EXT	08/10/2005	0001	44.00 - 44.00	980		F	#	50	-
	mg/L	0674	WL, EXT	08/10/2005	0002	30.00 - 30.00	210		F	#	20	-
	mg/L	0674	WL, EXT	09/29/2005	0001		670			#	20	-
	mg/L	0674	WL, EXT	10/20/2005	0001		610			#	20	-
	mg/L	0674	WL, EXT	11/09/2005	0001		590			#	20	-
	mg/L	0674	WL, EXT	12/06/2005	0001		620				50	-
	mg/L	0675	WL, EXT	08/10/2005	0001	16.00 - 16.00	100		F	#	20	-
	mg/L	0675	WL, EXT	08/10/2005	0001	44.00 - 44.00	330		F	#	20	-
	mg/L	0675	WL, EXT	08/10/2005	0001	30.00 - 30.00	340		F	#	20	-
	mg/L	0675	WL, EXT	09/29/2005	0001		550			#	20	-
	mg/L	0675	WL, EXT	09/29/2005	0002		570			#	20	-
	mg/L	0675	WL, EXT	10/20/2005	0001		470			#	20	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
REPORT DATE: 2/27/2006 10:10 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0675	WL, EXT	11/09/2005	0001		440			#	10	-
	mg/L	0675	WL, EXT	12/06/2005	0001		510				50	-
	mg/L	0676	WL, EXT	08/10/2005	0001	16.00 - 16.00	36		F	#	1	-
	mg/L	0676	WL, EXT	08/10/2005	0001	44.00 - 44.00	250		F	#	20	-
	mg/L	0676	WL, EXT	08/10/2005	0001	30.00 - 30.00	260		F	#	20	-
	mg/L	0676	WL, EXT	09/29/2005	0001		380			#	20	-
	mg/L	0676	WL, EXT	10/20/2005	0001		450			#	20	-
	mg/L	0676	WL, EXT	11/09/2005	0001		410			#	10	-
	mg/L	0676	WL, EXT	12/06/2005	0001		430				50	-
	mg/L	0676	WL, EXT	12/06/2005	0002		440				50	-
	mg/L	0677	WL, EXT	08/10/2005	0001	16.00 - 16.00	27		F	#	1	-
	mg/L	0677	WL, EXT	08/10/2005	0001	44.00 - 44.00	410		F	#	20	-
	mg/L	0677	WL, EXT	08/10/2005	0001	30.00 - 30.00	430		F	#	20	-
	mg/L	0677	WL, EXT	09/29/2005	0001		700			#	20	-
	mg/L	0677	WL, EXT	10/20/2005	0001		630			#	20	-
	mg/L	0677	WL, EXT	11/09/2005	0001		640			#	20	-
	mg/L	0677	WL, EXT	12/06/2005	0001		650				50	-
	mg/L	0678	WL, EXT	08/10/2005	0001	16.00 - 16.00	19		F	#	0.5	-
	mg/L	0678	WL, EXT	08/10/2005	0001	44.00 - 44.00	430		F	#	20	-
	mg/L	0678	WL, EXT	08/10/2005	0001	30.00 - 30.00	650		F	#	20	-
	mg/L	0678	WL, EXT	09/29/2005	0001		630			#	20	-
	mg/L	0678	WL, EXT	10/20/2005	0001		610			#	20	-
	mg/L	0678	WL, EXT	11/09/2005	0001		600			#	20	-
	mg/L	0678	WL, EXT	12/06/2005	0001		610				50	-
	mg/L	0679	WL, EXT	08/10/2005	0001	16.00 - 16.00	34		F	#	1	-
	mg/L	0679	WL, EXT	08/10/2005	0001	44.00 - 44.00	420		F	#	20	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
REPORT DATE: 2/27/2006 10:10 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0679	WL, EXT	08/10/2005	0001	30.00 - 30.00	610		F	#	20	-
	mg/L	0679	WL, EXT	09/29/2005	0001		490			#	20	-
	mg/L	0679	WL, EXT	10/20/2005	0001		560			#	20	-
	mg/L	0679	WL, EXT	11/09/2005	0001		430			#	10	-
	mg/L	0679	WL, EXT	12/06/2005	0001		610				50	-
	mg/L	0680	WL	09/30/2005	0001	18.00 - 18.00	210		F	#	20	-
	mg/L	0681	WL	09/30/2005	0001	17.00 - 17.00	250		F	#	20	-
	mg/L	0682	WL	09/30/2005	0001	28.00 - 28.00	390		F	#	20	-
	mg/L	0683	WL	09/30/2005	0001	27.00 - 27.00	390		F	#	20	-
	mg/L	0684	WL	09/30/2005	0001	17.00 - 17.00	0.76		F	#	0.1	-
	mg/L	0685	WL	09/30/2005	0001	28.00 - 28.00	470		F	#	20	-
	mg/L	0686	WL	09/30/2005	0001	18.00 - 18.00	130		F	#	20	-
	mg/L	0686	WL	10/26/2005	0001	18.00 - 18.00	149.000		F	#	5.49	-
	mg/L	0686	WL	12/15/2005	0001	18.00 - 18.00	88.200				0.549	-
	mg/L	0687	WL	09/30/2005	0001	28.00 - 28.00	470		F	#	20	-
	mg/L	0687	WL	10/26/2005	0001	28.00 - 28.00	364.000		F	#	5.49	-
	mg/L	0687	WL	12/15/2005	0001	28.00 - 28.00	385.000				2.19	-
	mg/L	0688	WL	08/10/2005	0001	39.00 - 39.00	540		F	#	20	-
	mg/L	0688	WL	08/10/2005	0001	31.00 - 31.00	490		F	#	20	-
	mg/L	0688	WL	10/20/2005	0001	31.00 - 31.00	860		F	#	20	-
	mg/L	0688	WL	10/20/2005	0002	31.00 - 31.00	740		F	#	20	-
	mg/L	0688	WL	11/09/2005	0001	31.00 - 31.00	830		F	#	20	-
	mg/L	0688	WL	12/07/2005	0001	31.00 - 31.00	790				50	-
	mg/L	0689	WL	08/10/2005	0001	46.00 - 46.00	420		F	#	20	-
	mg/L	0689	WL	08/10/2005	0001	54.00 - 54.00	420		F	#	20	-
	mg/L	0689	WL	08/10/2005	0002	54.00 - 54.00	420		F	#	20	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
REPORT DATE: 2/27/2006 10:10 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	0689	WL	10/20/2005	0001	54.00 - 54.00	290		F	#	20	-
	mg/L	0689	WL	11/09/2005	0001	54.00 - 54.00	590		F	#	20	-
	mg/L	0689	WL	11/09/2005	0002	54.00 - 54.00	560		F	#	20	-
	mg/L	0689	WL	12/07/2005	0001	54.00 - 54.00	800				50	-
	mg/L	0689	WL	12/07/2005	0002		840				50	-
	mg/L	0691	WL, PZ	10/26/2005	0001	4.90 - 4.90	239.000		QF	#	5.49	-
	mg/L	0691	WL, PZ	12/13/2005	0001	4.90 - 4.90	270.000				2.19	-
	mg/L	0692	WL, PZ	10/26/2005	0001	9.60 - 9.60	422.000		QF	#	5.49	-
	mg/L	0692	WL, PZ	12/13/2005	0001	9.60 - 9.60	469.000				5.49	-
	mg/L	0693	WL, PZ	10/19/2005	0001	2.00 - 2.00	110		FQ	#	20	-
	mg/L	0693	WL, PZ	11/09/2005	0001	2.00 - 2.00	110		QF	#	10	-
	mg/L	0693	WL, PZ	12/07/2005	0001	2.00 - 2.00	170				50	-
	mg/L	0695	WL, PZ	10/26/2005	0001	9.80 - 9.80	443.000		QF	#	5.49	-
	mg/L	0695	WL, PZ	12/13/2005	0001	9.80 - 9.80	483.000				5.49	-
	mg/L	0696	WL, PZ	10/19/2005	0001	1.80 - 1.80	17		FQ	#	1	-
	mg/L	0696	WL, PZ	11/09/2005	0001	1.80 - 1.80	37		QF	#	1	-
	mg/L	0696	WL, PZ	12/07/2005	0001	1.80 - 1.80	68				2	-
	mg/L	0697	WL, PZ	10/18/2005	0001	4.80 - 4.80	200		F	#	20	-
	mg/L	0697	WL, PZ	11/09/2005	0001	4.80 - 4.80	230		F	#	10	-
	mg/L	0697	WL, PZ	11/09/2005	0002	4.80 - 4.80	230		F	#	10	-
	mg/L	0697	WL, PZ	12/07/2005	0001	4.80 - 4.80	250				50	-
	mg/L	0698	WL, PZ	10/19/2005	0001	9.80 - 9.80	670		FQ	#	20	-
	mg/L	0698	WL, PZ	11/09/2005	0001	9.80 - 9.80	530		QF	#	20	-
	mg/L	0698	WL, PZ	12/07/2005	0001	9.80 - 9.80	540				50	-
	mg/L	ATP-2-D	WL, PZ	04/21/2005	0001	88.00 - 88.00	360		F	#	50	-
	mg/L	ATP-2-D	WL, PZ	07/14/2005	0001	88.00 - 88.00	450		F	#	50	-

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	ATP-2-D	WL, PZ	11/01/2005	0001	88.00 - 88.00	530		F	#	20	-
	mg/L	ATP-2-S	WL, PZ	04/21/2005	0001	36.00 - 36.00	330		FQ	#	50	-
	mg/L	ATP-2-S	WL, PZ	07/14/2005	0001	36.00 - 36.00	320		F	#	50	-
	mg/L	ATP-2-S	WL, PZ	11/01/2005	0001	36.00 - 36.00	500		QF	#	20	-
	mg/L	BL1-D	WL	12/21/2005	0001	140.00 - 140.00	2.2		F	#	0.1	-
	mg/L	BL1-M	WL	12/20/2005	0001	99.00 - 99.00	0.66		F	#	0.1	-
	mg/L	BL1-S	WL	12/20/2005	0001	55.00 - 55.00	0.51		F	#	0.1	-
	mg/L	BL2-D	WL	12/21/2005	0001	142.00 - 142.00	3.1		F	#	0.1	-
	mg/L	BL2-M	WL	12/16/2005	0001	100.00 - 100.00	2.9		F	#	0.1	-
	mg/L	BL2-M	WL	12/16/2005	0002	100.00 - 100.00	2.8		F	#	0.1	-
	mg/L	BL2-S	WL	12/15/2005	0001	57.00 - 57.00	2.1		F	#	0.1	-
	mg/L	BL3-D	WL	12/21/2005	0001	100.00 - 100.00	3.6		F	#	0.1	-
	mg/L	BL3-M	WL	12/21/2005	0001	47.00 - 47.00	2.4		F	#	0.1	-
	mg/L	CR1	SL, RIV	04/19/2005	0001	0.50 - 0.80	0.25			#	0.1	-
	mg/L	CR1	SL, RIV	07/11/2005	0001	0.67 - 0.67	0.1	U		#	0.1	-
	mg/L	CR1	SL, RIV	11/04/2005	0001	0.33 - 0.33	0.1	U		#	0.1	-
	mg/L	CR3-004	SL, RIV	04/20/2005	0001	1.00 - 1.00	0.15			#	0.1	-
	mg/L	CR3-005	SL, RIV	07/12/2005	0001	0.67 - 0.67	0.1	U		#	0.1	-
	mg/L	CR3-006	SL, RIV	11/03/2005	0001	0.20 - 0.20	0.1	U		#	0.1	-
	mg/L	CR5	SL, RIV	04/21/2005	0001	1.00 - 2.00	0.14			#	0.1	-
	mg/L	CR5	SL, RIV	07/11/2005	0001	0.00 - 0.00	0.1	U		#	0.1	-
	mg/L	CR5	SL, RIV	11/04/2005	0001	0.42 - 0.42	0.1	U		#	0.1	-
	mg/L	M11-12	WL, PZ	12/13/2005	0001	36.00 - 36.00	0.47		F	#	0.1	-
	mg/L	M11-14.0	WL, PZ	12/12/2005	0001	48.00 - 48.00	2.2		F	#	0.1	-
	mg/L	M11-14.0	WL, PZ	12/13/2005	0002	48.00 - 48.00	2.2		F	#	0.1	-
	mg/L	M11-4.8	WL, PZ	12/15/2005	0001	12.00 - 12.00	0.5		QF	#	0.1	-

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	M11-7.0	WL, PZ	12/14/2005	0001	12.00 - 12.00	0.28		QF	#	0.1	-
	mg/L	N2-12.8	WL, PZ	12/16/2005	0001	33.00 - 33.00	0.21		QF	#	0.1	-
	mg/L	N2-4.3	WL, PZ	12/15/2005	0001	12.00 - 12.00	11		QF	#	0.5	-
	mg/L	N2-6.5	WL, PZ	12/15/2005	0001	19.00 - 19.00	0.37		QF	#	0.1	-
	mg/L	N4-12.0	WL, PZ	12/16/2005	0001	37.00 - 37.00	0.47		QF	#	0.1	-
	mg/L	N4-3.2	WL, PZ	12/16/2005	0001	8.00 - 8.00	0.41		QF	#	0.1	-
	mg/L	N5-14	WL, PZ	12/14/2005	0001	45.00 - 45.00	0.1	U	F	#	0.1	-
	mg/L	N5-4.4NEW	WL, PZ	12/15/2005	0001	12.00 - 12.00	0.21		QF	#	0.1	-
	mg/L	N5-7.2	WL, PZ	12/15/2005	0001	23.00 - 23.00	0.18		QF	#	0.1	-
	mg/L	N6-6.4	WL, PZ	12/12/2005	0001	12.00 - 12.00	0.1	U	F	#	0.1	-
	mg/L	N7-10	WL, PZ	12/15/2005	0001	32.00 - 32.00	1.7		F	#	0.1	-
	mg/L	N7-11	WL, PZ	12/16/2005	0001	34.00 - 34.00	3.3		QF	#	0.1	-
	mg/L	N7-7	WL, PZ	12/16/2005	0001	19.00 - 19.00	1.1		QF	#	0.1	-
	mg/L	SMI-PW01	WL	10/13/2005	0001	40.00 - 40.00	560		F	#	50	-
	mg/L	SMI-PW01	WL	11/09/2005	0001	40.00 - 40.00	460		F	#	20	-
	mg/L	SMI-PW01	WL	11/09/2005	0002	20.09 - 60.09	440		F	#	20	-
	mg/L	SMI-PW01	WL	12/08/2005	0001	40.00 - 40.00	560		F	#	50	-
	mg/L	SMI-PW02	WL	04/28/2005	0001	20.04 - 60.04	1400		F	#	50	-
	mg/L	SMI-PW02	WL	05/25/2005	0001	20.04 - 60.04	1300			#	50	-
	mg/L	SMI-PW02	WL	06/23/2005	0001	20.04 - 60.04	1000			#	50	-
	mg/L	SMI-PW02	WL	07/27/2005	0001	20.04 - 60.04	960		J	#	50	-
	mg/L	SMI-PW02	WL	08/25/2005	0001	20.04 - 60.04	880			#	20	-
	mg/L	SMI-PW02	WL	11/11/2005	0001	20.04 - 60.04	920		F	#	20	-
	mg/L	SMI-PW02	WL	12/06/2005	0001	20.04 - 60.04	900		F	#	20	-
	mg/L	SMI-PZ1D2	WL	10/13/2005	0001	73.00 - 73.00	1800		F	#	50	-
	mg/L	SMI-PZ1D2	WL	11/09/2005	0001	73.00 - 73.00	1800		F	#	50	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
REPORT DATE: 2/27/2006 10:10 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY
Ammonia Total as N	mg/L	SMI-PZ1D2	WL	12/08/2005	0001	73.00 - 73.00	1500		F	#	50	-
	mg/L	SMI-PZ1M	WL	10/13/2005	0001	57.00 - 57.00	990		F	#	50	-
	mg/L	SMI-PZ1M	WL	11/09/2005	0001	57.00 - 57.00	980		F	#	20	-
	mg/L	SMI-PZ1M	WL	12/08/2005	0001	57.00 - 57.00	980		F	#	50	-
	mg/L	SMI-PZ1S	WL	10/13/2005	0001	18.00 - 18.00	460		F	#	50	-
	mg/L	SMI-PZ1S	WL	11/09/2005	0001	18.00 - 18.00	430		F	#	20	-
	mg/L	SMI-PZ1S	WL	12/08/2005	0001	18.00 - 18.00	430		F	#	50	-
	mg/L	TP-02	WL	04/21/2005	0001	29.90 - 29.90	1.2		F	#	0.1	-
	mg/L	TP-02	WL	07/13/2005	0001	29.90 - 29.90	1.9		F	#	0.1	-
	mg/L	TP-02	WL	11/01/2005	0001	30.00 - 30.00	1.3		F	#	0.1	-
	mg/L	TP-17	WL	04/20/2005	0001	29.50 - 29.50	3.4		F	#	0.1	-
	mg/L	TP-17	WL	07/12/2005	0001	28.80 - 28.80	3.4		F	#	0.1	-
	mg/L	TP-17	WL	11/02/2005	0001	29.80 - 29.80	3		F	#	0.1	-
	mg/L	TP-18	WL	04/20/2005	0001	21.60 - 21.60	2.6		F	#	0.1	-
	mg/L	TP-18	WL	07/11/2005	0001	20.90 - 20.90	3.3		F	#	0.1	-
	mg/L	TP-18	WL	11/02/2005	0001	20.90 - 20.90	3.5		F	#	0.1	-
	mg/L	TP-19	WL	04/20/2005	0001	29.50 - 29.50	3.5		F	#	0.1	-
	mg/L	TP-19	WL	07/11/2005	0001	29.50 - 29.50	3.6		F	#	0.1	-
	mg/L	TP-19	WL	11/02/2005	0001	29.10 - 29.10	3.7		F	#	0.1	-
	mg/L	W1-7	WL, PZ	12/13/2005	0001	19.00 - 19.00	0.35		QF	#	0.1	-

GENERAL WATER QUALITY DATA BY PARAMETER (USEE205) FOR SITE MOA01, Moab Site
REPORT DATE: 2/27/2006 10:10 am

PARAMETER	UNITS	LOCATION ID	LOC TYPE, SUBTYPE	SAMPLE: DATE	ID	DEPTH RANGE (FT BLS)	RESULT	QUALIFIERS: LAB	DATA	QA	DETECTION LIMIT	UN-CERTAINTY

RECORDS: SELECTED FROM USEE200 WHERE site_code='MOA01' AND (data_validation_qualifiers IS NULL OR data_validation_qualifiers NOT LIKE '%R%' AND data_validation_qualifiers NOT LIKE '%X%') AND cas in('NH3+NH4-N') AND DATE_SAMPLED between #1/1/2005# and #12/31/2005#

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

LOCATION TYPES: IS INJECTION SYSTEM SL SURFACE LOCATION TS TREATMENT SYSTEM WL WELL

LOCATION SUBTYPES:

EPND	Evaporation Pond	EXT	Extraction Well	I&E	Dual Purpose Injection and Ex	IHYD	Injection System Hydrant
INFL	Treatment System Influent	PZ	Piezometer	RIV	River	SUMP	Sump

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 & Radiochemistry: 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 compund (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.