

**QUARTERLY REPORT
FOR THE
ROCKY FLATS GROUNDWATER PLUME
TREATMENT SYSTEMS**

July through September 2000

September 30, 2000



**ADMIN RECORD
SW-B-000013**

1/49

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ACRONYM LIST

CAD/ROD	Corrective Action Decision/Record of Decision
CWTF	Consolidated Water Treatment Facility
DOE	Department of Energy
EPA	Environmental Protection Agency
gpm	gallons per minute
GAC	Granular Activated Carbon
ITS	Interceptor Trench System
FY	Fiscal Year
NPDES	National Pollutant Discharge Elimination System
OU	Operable Unit
pCi/l	picoCuries per liter
pCi/ug	picoCuries per microgram
RFCA	Rocky Flats Cleanup Agreement
RFETS	Rocky Flats Environmental Technology Site
RMRS	Rocky Mountain Remediation Services
SCFA	DOE Subsurface Contaminant Focus Area
SITE	Superfund Innovative Technology Evaluation
SVOCs	Semivolatile Organic Compounds
ug/l	Micrograms per liter
VOCs	Volatile Organic Compounds

1.0 INTRODUCTION

This quarterly report describes the activities and provides the available performance monitoring data for the five groundwater collection and treatment systems at the Rocky Flats Environmental Technology Site (RFETS) from July through September 2000. Included in this report are the analytical results for samples collected during the previous quarter that were not available for the last quarterly report.

Three of the groundwater collection and treatment systems are reactive barriers designed to protect surface water. These were installed for the Mound Site Plume, the East Trenches Plume and the Solar Ponds Plume. The systems were installed near the distal ends of the associated plumes to intercept groundwater before it enters surface water. These systems are effective in low flow, low permeability regimes.

Two other groundwater collection and treatment systems are currently operating at the Site. These are the Operable Unit (OU) 1 – 881 Hillside system and the OU7 – Present Landfill Seep collection system. This report provides information on the performance of each of the five systems.

2.0 MOUND SITE PLUME TREATMENT SYSTEM

The Mound Site Plume Treatment System uses reactive barrier technology to collect and treat contaminated groundwater derived from the Mound Site area. The source area was removed as an accelerated action in 1997. The Mound Site Plume System was installed in 1998 to meet the Groundwater Action Level Framework Tier 2 concentrations defined in the Rocky Flats Cleanup Agreement (RFCA) (DOE, 1996). The Mound Site Plume System employs innovative technology to treat groundwater contaminated with chlorinated organic compounds and low levels of radionuclides. The effectiveness and feasibility of using this technology on other contaminated groundwater plumes was demonstrated by this project. The Mound Site Plume System location is shown on Figure 1.

The Mound Site Plume Treatment Project was a cooperative effort between RFETS and the Department of Energy Subsurface Contaminant Focus Area (SCFA), with support from the US Environmental Protection Agency (EPA) Superfund Innovative Technology Evaluation (SITE) Program. Funds were provided by SCFA in Fiscal Year (FY) 2000 for additional sampling beyond that required by the Mound Site Plume Decision Document (DOE 1997a). This additional sampling provided extensive data to various research organizations on the effectiveness and feasibility of reactive barriers.

2.1 Project Events

Each of the two treatment cells contains 4 feet of iron filings as the treatment medium for the contaminated water. The upper one-foot of media in each cell is a mixture of 90% pea gravel and 10% iron which facilitates raking and reduces crust formation. The media surface was raked on a weekly basis to minimize crust formation. To date, no crust appears to be forming. Probing beneath this layer indicated that a crust was not forming at depth.

Quarterly water level monitoring and sample collection was performed by Tetra Tech for the EPA SITE Program. Site personnel performed monthly water level monitoring and sample collection.

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MOUND PLUME TREATMENT SYSTEM LOCATION

Figure 1

Rocky Flats Environmental Technology Site

EXPLANATION

Detailed Key

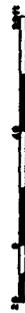
- ⊕ New Ground Water Well
- ⊕ Existing Ground Water Well
- New Trench Water Level Monitoring Probe
- ⊗ Geoprobe
- ⊕ New Trench Cleanout
- ~ Contours
- Fences
- 72" Culvert
- Trench System

Standard Map Features

- Buildings and other structures
- Lakes and ponds
- Streams, ditches or other drainage features
- Paved roads
- Dirt roads

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Scale = 1:800
1 inch represents approximately 87 feet



State Plane Coordinate Projection
Colorado Central Zone
Datum: NAD83

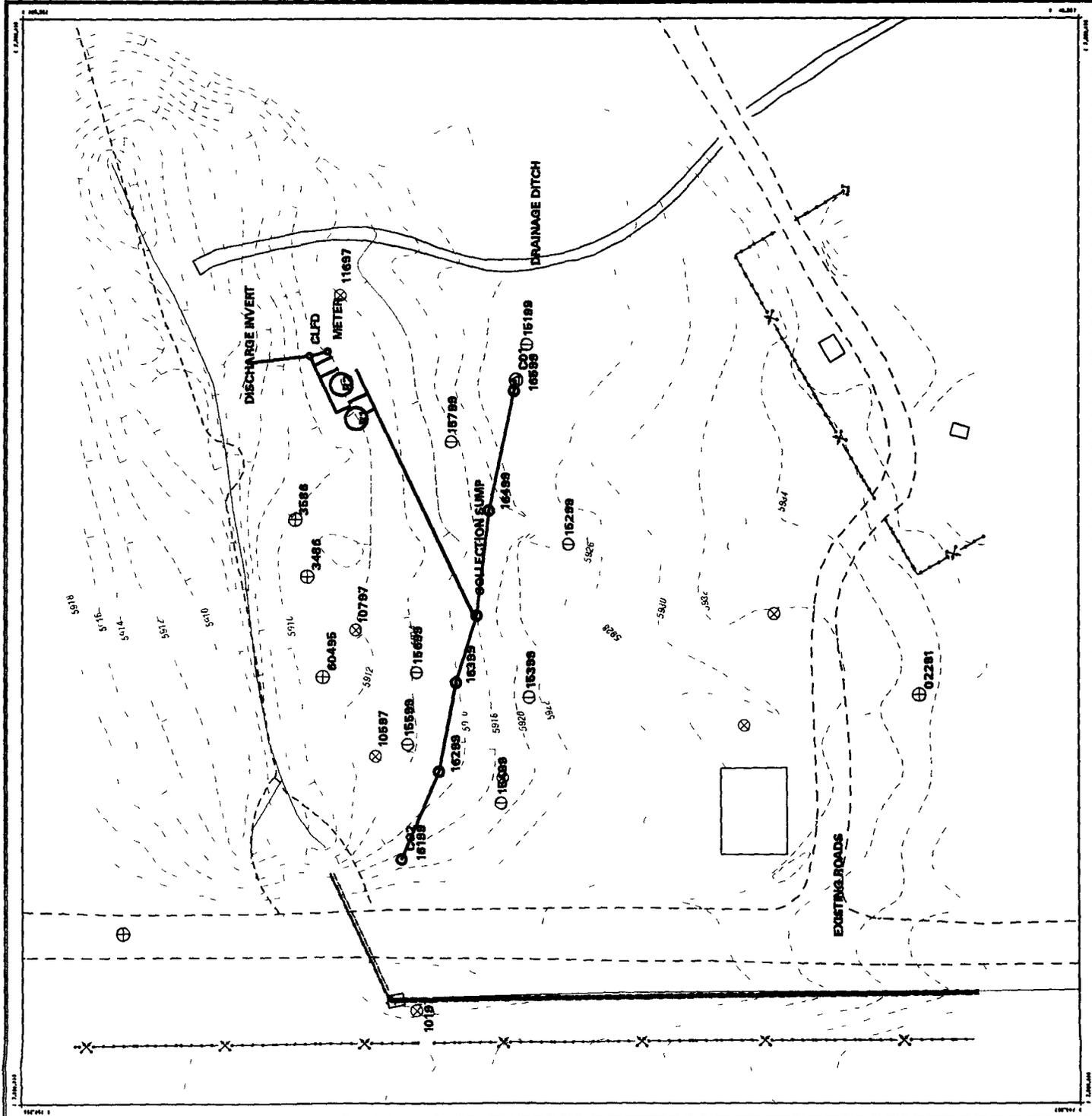
U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by
DynCorp
THE ART OF TECHNOLOGY

Prepared for
IGI
Kaiser Aluminum

MAP ID: 88-0228
Revised: September 18, 2000

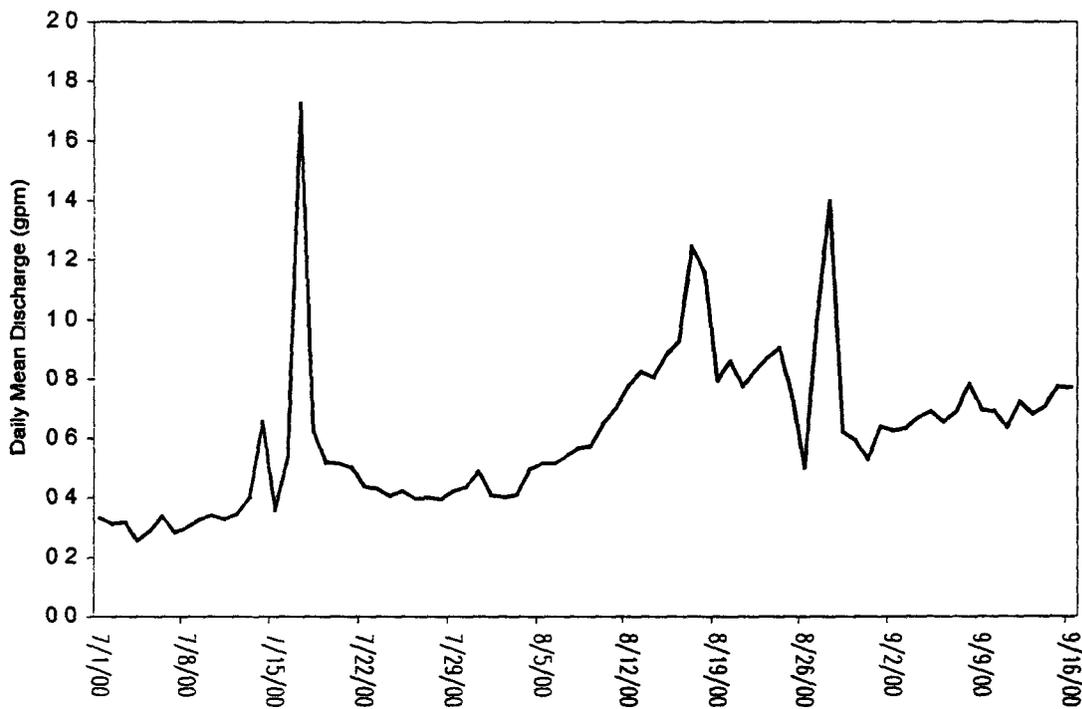
Original map contents are preserved. Logo and date have changed.



2.2 Treatment Effectiveness

Treatment system flow rates and volume of water treated are recorded automatically. The flow rates for the period of July through September are shown on Figure 2. The recorded flow rate ranged from 0.3 to 1.7 gallons per minute (gpm). The July average flow rate was 0.45 gpm, the August average flow rate was 0.74 gpm and the September average flow rate was 0.7 gpm. The total volume of groundwater flow through the system as of September 17, 2000 was approximately 572,567 gallons. The volume for June 21 through September 17 was 79,454 gallons.

Figure 2 Mound Plume Treatment System Flow Rates, July through September 2000



The high flow rate of 1.7 gpm in mid-July was related to 1.9 inches of rain that fell on July 16, 2000. Rainfall totaling slightly more than one inch was received in early to mid-August causing the second rise in flow rates. The flow rate of 1.4 gpm on August 28th correlates very well with the 0.9 inches of rain received on August 27th.

Water levels within the collection trench were monitored at five piezometers and measured monthly. Water levels were also monitored quarterly at seven locations surrounding the collection trench (three upgradient, three downgradient and one to the east). These locations are shown on Figure 1 and the water levels are shown in Table 1. Water elevation upgradient of the collection trench was approximately 5,920 feet. Water elevation downgradient of the collection trench was 10 feet lower at around 5,910 feet, with piezometer 15599 dry. The water levels in the collection trench piezometers remained constant for this reporting period. These data indicate that the collection system is working as designed.

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Table 1 Mound Plume Piezometer Water Levels (in feet below top of casing)

Trench Piezometers				Upgradient/Downgradient Piezometers	
	6/15/00	7/10/00	8/17/00		7/10/00
16199 (West)	Dry	Dry	Dry	15199	7.8
16299	11.98	12	12.06	15299	11.38
16399	9.45	9.44	9.45	15399	5.31
16499	9.19	9.18	9.2	15499	4.21
16599 (East)	12.30	12.29	12.31	15599	Dry
Downgradient Well				15699	9.69
	6/5/00	7/10/00	8/1/00	15799	11.45
3586	8.07	8.24	8.2		

Water samples were collected at one-foot intervals within the first treatment cell to provide additional data for evaluating system performance. Figure 3 shows the sampling locations within the two treatment cells. However, samples were not collected from within the second treatment cell because the first treatment cell was operating more efficiently than originally expected.

Analytical results for the June and July 2000 sampling events were received this quarter and are presented in this report. The results continue to indicate that the first two feet of reactive iron remove most of the volatile organic compounds (VOCs) and radionuclides. Sample results received this quarter are provided in Appendix A.

2.2.1 June 2000 Sampling Event

Samples were collected on June 14, 2000. The influent contaminant concentrations were reduced to below RFCA Tier 2 groundwater action levels by the time the treated water left the system as shown in Table 2 and Figure 4. Most of the VOC contaminants were removed in the first treatment cell within the first two feet of the reactive media, and all contaminants were reduced below action levels at the effluent from the first reactor cell. The contaminants were generally not detectable at the effluent from the second reactor cell.

Table 2 Summary of the June 2000 Sampling Event

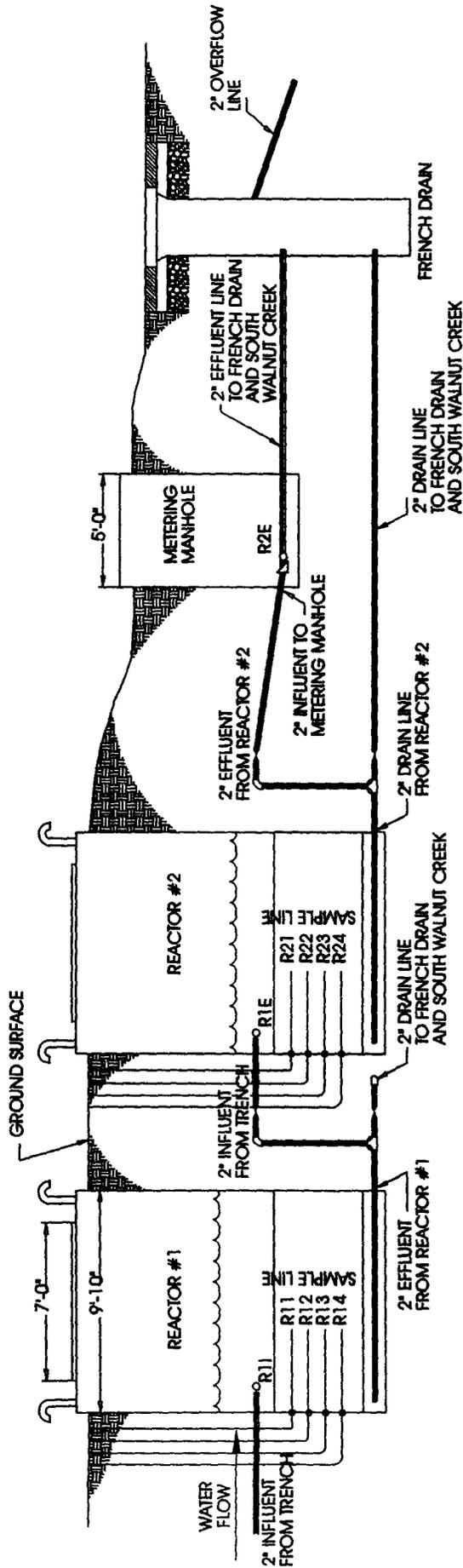
Contaminant	Influent (R1I) Concentration (ug/l)	Reactor 1 Effluent (R1E) Concentration (ug/l)	Reactor 2 Effluent (R2E) Concentration (ug/l)	RFCA Groundwater Tier 2 Action Levels (ug/l)
Tnchloroethene	150	ND	ND	5
Tetrachloroethene	130	0.1 J	ND	5
Carbon Tetrachloride	130	ND	ND	5
Chloroform	24	ND	ND	100
Cis 1,2-Dichloroethene	42	3	2	70
1,1-Dichloroethene	10	ND	ND	7
1,1-Dichloroethane	2 J	2	1	5
1,1,2,2-Tetrachloroethane	8	ND	ND	0.0895
Methylene Chloride	3 JB	0.3 JB	0.2 JB	5
Total Uranium (pCi/l)	9.765	ND	ND	10

B = Present in the laboratory blank (possible lab contamination)

J = Detected at concentrations below the detection limit for this analysis

ND = Not detected at the detection limit for this analysis

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LEGEND

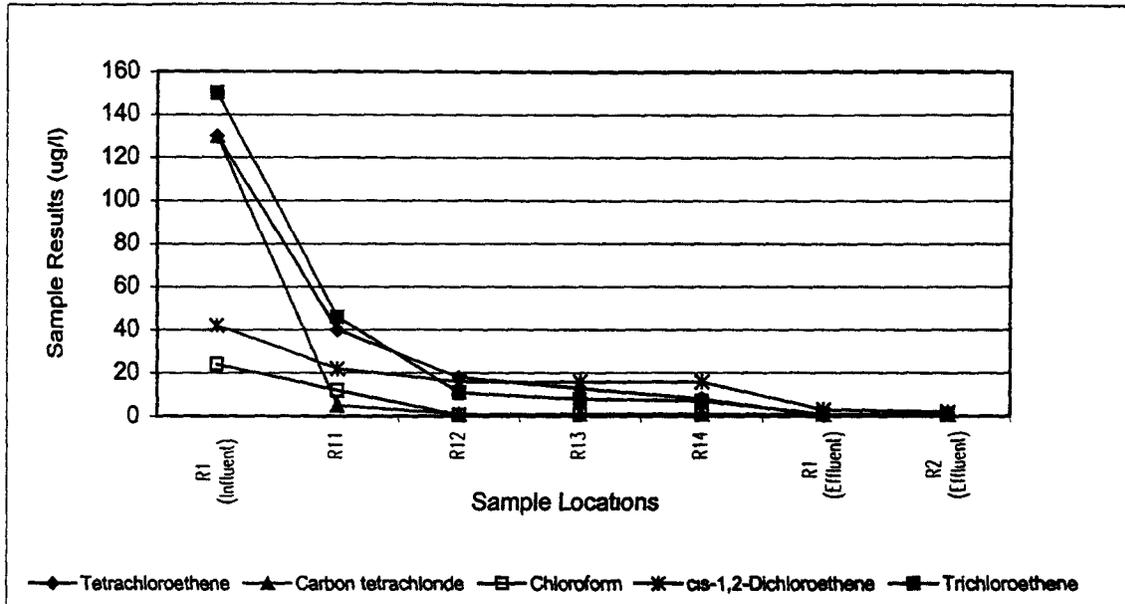
- REACTIVE IRON
- SAMPLE LOCATION
- ~ WATER LINE
- - - SAMPLE LINE
- NOT TO SCALE

Figure 3
Sample locations within
the Treatment Cells

RIMRS
 Rocky Mountain Remediation Services, LLC
 Geographic Information Systems Group
 Rocky Flats Environmental Technology Site
 PO Box 464
 Golden, CO 80402-0464

99-0318

Figure 4 Mound Plume Treatment Results by Sample Location, June 2000



2.2.2 July 2000 Sampling Event

Samples were collected on July 19, 2000. The influent VOC contaminant concentrations were significantly reduced by the time the treated water left the system as shown in Table 3 and Figure 5. Most of the VOC contaminants were removed in the first treatment cell within the first two feet of the reactive media, and all contaminants were reduced below action levels at the effluent from the first reactor cell. Uranium was reduced to below detection limits within the first foot of media, and activities remained below detection limits at the effluent from the first and second treatment cells.

Table 3 Summary of the July 2000 Sampling Event

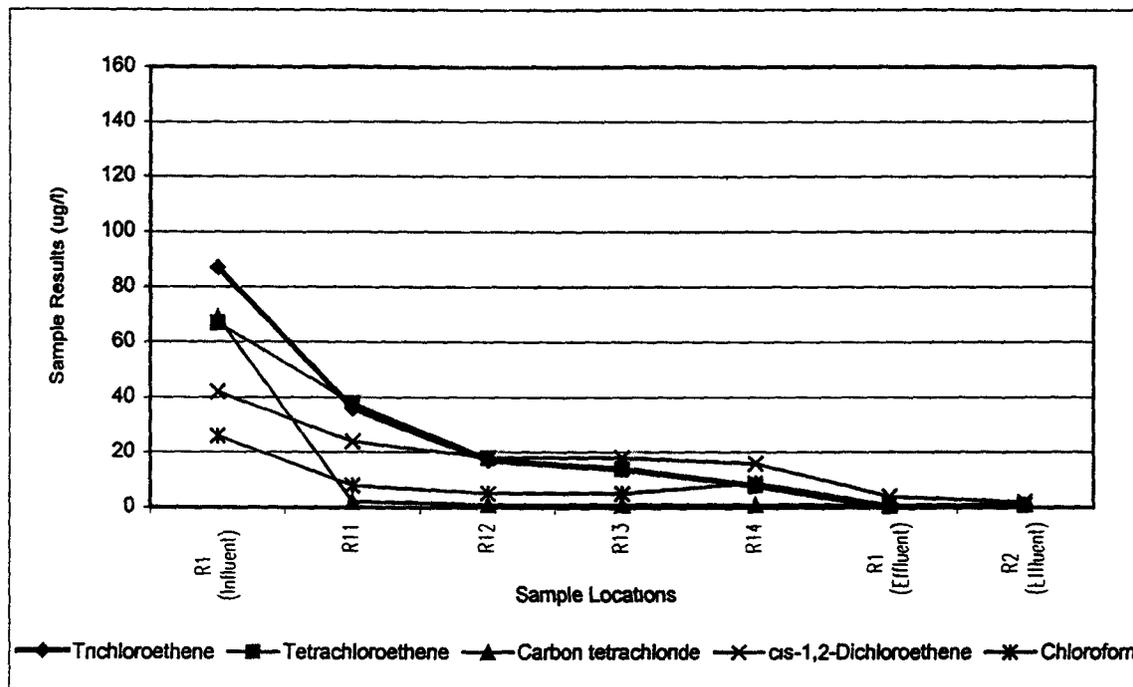
Contaminant	Influent (R1I) Concentration (ug/l)	Reactor 1 Effluent (R1E) Concentration (ug/l)	Reactor 2 Effluent (R2E) Concentration (ug/l)	RFCA Groundwater Tier 2 Action Levels (ug/l)
Trichloroethene	87	0.1 J	ND	5
Tetrachloroethene	67	0.2 J	ND	5
Carbon Tetrachloride	69	ND	ND	5
Chloroform	13	ND	ND	100
Cis 1,2-Dichloroethene	42	4	2	70
1,1-Dichloroethene	6	0.1 J	ND	7
1,1-Dichloroethane	2 J	2	1	5
Methylene Chloride	4 JB	1 B	0.9 JB	5
Total Uranium (pCi/l)	8.049	ND	ND	10 pCi/l

B = Present in the laboratory blank (possible lab contamination)

J = Detected at concentrations below the detection limit for this analysis

ND = Not detected at the detection limit for this analysis

Figure 5 Mound Plume Treatment Results by Sample Location, July 2000



2.3 Conclusions and Planned Changes

The Mound Site Plume Treatment Project is fully operational and treating contaminated groundwater to below specified system performance concentrations. Ongoing maintenance, raking the iron media and retrieving flow rate and water level data are the only required activities. Media raking will be reduced because the crust formation was minimal this quarter.

Monthly sample collection was funded in part by the DOE SCFA, with support from the EPA SITE Program. This funding support ends this fiscal year. While system sampling will continue to verify the performance of the treatment system, beginning October 1, 2000 (Fiscal Year 2001), the sampling frequency will change to semiannual sampling of the influent and effluent, as specified in the Mound Site Plume Decision Document (DOE 1997a).

3.0 EAST TRENCHES PLUME TREATMENT SYSTEM

The East Trenches Plume Treatment System collects and treats the contaminated groundwater derived from the Trench 3 and Trench 4 area to the Groundwater Action Level Framework Tier 2 level concentrations defined in the RFCA (DOE, 1996). The sources for the contaminated groundwater plume were remediated in 1996 as an accelerated action.

Installation of the 1,200-foot collection system and two reactive iron treatment cells, similar to the Mound Plume System, was completed in September 1999. The location of the system components is shown on Figure 6. This system requires little maintenance and, based on the successful performance of the Mound Plume System, should provide long-term protection of surface water by collecting and treating the contaminated groundwater before it reaches South Walnut Creek.

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3.1 Project Events

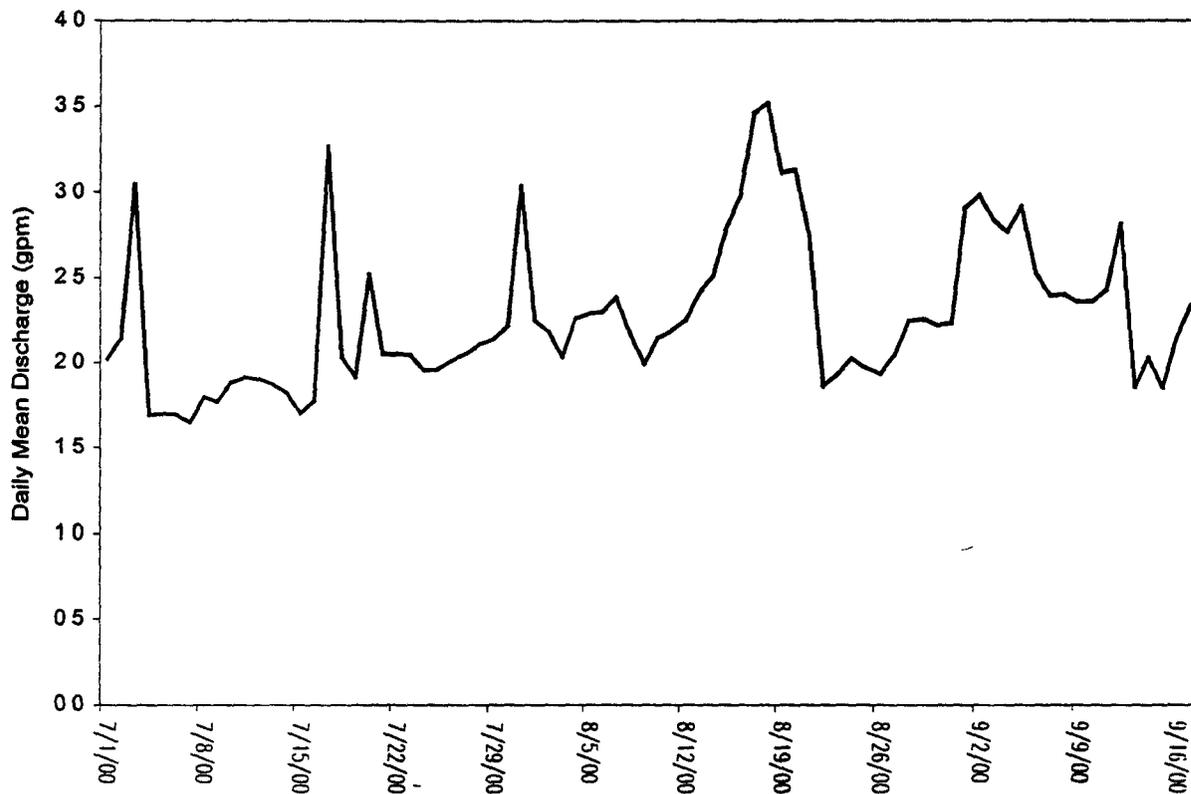
The iron media in the two treatment cells was raked weekly to minimize crust formation. Site staff performed system maintenance along with water level monitoring and sample collection.

3.2 Treatment Effectiveness

Treatment system flow rates and volume of water treated were recorded automatically. The flow rates for the period of July through September are shown on Figure 7. The recorded flow rate from the treatment system ranged from 1.6 to 3.5 gpm and averaged 2.2 gpm. The July average flow rate was 2.1 gpm, the August average flow rate was 2.4 gpm and the September average flow rate was 2.5 gpm. As at the Mound Plume System, the highest flow rates correlate very well with receipt of rainfall. However, the change in flow rates at the East Trenches System was not as dramatic because this treatment system has a higher base flow volume.

Total volume of groundwater treated by the system as of September 17, 2000 was approximately 2.5 million gallons with 287,964 gallons of groundwater treated for the period June 21 through September 17th.

Figure 7 East Trenches Plume Treatment System Flow Rates, July through September 2000



Water levels within the collection trench were measured monthly at three piezometers. Water levels at the well downgradient of the collection trench were also measured monthly. Locations

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are shown on Figure 6 and monitoring results presented in Table 4. The water levels in the collection trench piezometers for this time period dropped one foot at piezometer 95799 and remained constant at the other two locations. Water levels in the downgradient wells remained constant at two locations, rose two feet at well 95199, and declined at well 23296. Well 23296 is downgradient of the B-2 Dam adjacent to South Walnut Creek. Water levels at this location probably reflected some influence from surface water, including the B-2 Pond, in addition to monitoring the downgradient plume.

The water elevations at this area demonstrate a strong downgradient trend to the east, with the water elevations in the piezometers within the collection trench generally 10 feet higher than the corresponding piezometers downgradient of the collection trench. The water elevation at piezometer 95899 was 5,888 feet above sea level, and the downgradient piezometer (95299) was dry. The water elevation at 95799 was 5,877 feet above sea level, and the downgradient piezometer 95199 was 5,870 feet above sea level. Finally, at the far eastern end of the collection trench, the water elevation at 95899 was 5,866 feet above sea level with water elevation in well 23296 at an elevation of 5,857 feet. The water elevation was 5,842 feet at 95099, located east of the collection trench. This elevation has remained constant from the last reporting period. These water elevations, combined with the water volumes collected, indicate that the collection trench is working as designed.

Table 4 East Trenches Plume Piezometer and Well Water Levels (in feet below top of casing)

Trench Piezometers			Groundwater Wells			
	6/1/00	7/10/00	8/1/00		6/1/00	8/1/00
95699 (East)	Dry	Dry	Dry	95099	20 93	20 97
95799	12 55	Dry	13 6	95199	13 76	11 78
95899	20 86	20 88	20 88	95299	Dry	Dry
				23296	5 37	6 34

Analytical samples were collected monthly at the influent and effluent of the treatment system to monitor treatment effectiveness. Sample results were received this quarter for the June and July sampling events. Details of these sampling events are provided below and sample results are provided in Appendix B.

The contaminants of concern for this plume are primarily trichloroethene, tetrachloroethene and carbon tetrachloride. Trichloroethene and carbon tetrachloride were reduced to below detection limit concentrations at the effluent from the treatment system. Tetrachloroethene was reduced to concentrations of 2 ug/l or less, which is below the RFCAs groundwater action level of 5 ug/l.

Methylene chloride occurred in the influent samples and was the only analyte above action levels in effluent samples. Methylene chloride has consistently been noted in the effluent samples from the East Trenches Plume treatment system, always with the qualification that detectable concentrations were observed in the associated lab blanks. As the concentrations were less than 10 times the detection limit, the presence of methylene chloride was probably due to laboratory contamination. However, The Site Analytical Services group is assisting with determining the cause of these consistent sample results and resolving this issue. Information obtained on this issue will be presented in the next Quarterly Report.

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3.2.1 June 2000 Sampling Event

Samples were collected on June 13, 2000 and analytical results are shown in Table 5. All contaminants were reduced to levels below the RFCA Action Levels with the exception of methylene chloride, which was above action levels in the effluent and also reported in the laboratory blanks. As the concentrations are less than 10 times the detection limit, the presence of methylene chloride was probably due to laboratory contamination. As stated above, more information will be obtained on this issue.

Table 5 June 2000 Sample Results

Compound	Influent Concentration (ug/l)	Effluent Concentration (ug/l)	RFCA Groundwater Tier 2 Action Levels (ug/l)
Trichloroethene	2,700 D	ND	5
Tetrachloroethene	490	2	5
Carbon Tetrachloride	230	ND	5
Chloroform	110	2	100
Cis-1,2-Dichloroethene	30	17	70
Methylene chloride	25 JB	17 B	5
Vinyl chloride	ND	0.8 J	2

B = Detected in blank

D = Detected in diluted sample

J = Detected at concentrations below the detection limit for this analysis

ND = Not detected at the detection limit for this analysis

3.2.2 July 2000 Sampling Event

The treatment system was sampled on July 19, 2000 and results are provided below in Table 6 and in Appendix B. All contaminants were reduced to levels below the RFCA Action Levels with the exception of methylene chloride, which was above action level in the effluent and also reported in the laboratory blanks. As the concentrations are less than 10 times the detection limit, the presence of methylene chloride was probably due to laboratory contamination. However, the cause of the methylene chloride concentrations reported in the effluent is being researched.

Table 6 July 2000 Sample Results

Compound	Influent Concentration (ug/l)	Effluent Concentration (ug/l)	RFCA Groundwater Tier 2 Action Levels (ug/l)
Trichloroethene	3,000	0.3 J	5
Tetrachloroethene	320	1	5
Carbon Tetrachloride	180	ND	5
Chloroform	82	0.5 J	100
Cis-1,2-Dichloroethene	23	11	70
Methylene chloride	6 JB	17 B	5
Vinyl chloride	ND	0.6 J	2

B = Detected in blank

J = Detected below the detection limit for analysis

ND = Not detected at the detection limit for this analysis

3.3 Conclusions and Planned Changes

The East Trenches Plume Treatment System is fully operational and treating contaminated groundwater to below the specified system performance requirements. Ongoing maintenance, raking the iron filings and retrieving flow rate and water level data, are the only required activities. Next quarter, the top foot of media in each reactor is expected to be replaced with a mixture of 90% pea gravel and 10% iron that is effectively minimizing crust formation at the Mound Plume system.

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Beginning in October 2000 (Fiscal Year 2001), the monthly sampling frequency will be reduced to semiannual sampling as specified in the East Trenches Plume Decision Document (DOE 1999a)

4.0 SOLAR PONDS PLUME TREATMENT SYSTEM

The Solar Ponds Plume is a groundwater plume containing low-levels of nitrate and uranium, derived from storage and evaporation of radioactive and hazardous liquid wastes in the Solar Evaporation Ponds. These ponds were drained and the sludge was removed by 1995. Six interceptor trenches were installed in 1971 to de-water the hillside. The original six trenches were abandoned in place and the Interceptor Trench System (ITS) was installed in 1981. Installation of the 1,100-foot long collection system and passive treatment cell containing iron and wood chips was completed in September 1999 and the components of the system are shown on Figure 8. This system intercepts the water collected by the pre-existing ITS.

The maintenance requirements for the wood chip/iron media consist of water level monitoring and sample collection, which are performed by Site staff. Raking or other manipulation of the media is not required based on information from other, similar systems. Media replacement is expected to be required 10 years after installation based on information from other similar systems.

The Solar Ponds Plume system is different from the passive, flow-through systems installed for the Mound Plume and East Trenches Plume. As originally designed, the treatment cell was to be located near North Walnut Creek. Water was expected to be intercepted and flow by gravity to the treatment cell without detention in the collection trench. Because the Preble's Meadow Jumping Mouse (a Federally Listed Threatened Species) is present at the optimal location of a flow-through treatment cell, the treatment cell was located immediately adjacent to the collection trench, not 400 feet downgradient as was originally planned. As a result, the collection trench for this system must hold approximately 11 feet of groundwater to develop sufficient hydraulic head for the groundwater to flow into the treatment cell.

4.1 Project Events

The Solar Ponds Plume system is currently collecting groundwater containing nitrate and uranium from the Solar Ponds Plume. However, some untreated groundwater is also reaching surface water causing a rise in nitrate and uranium levels in North Walnut Creek. Performance monitoring data shows that the surface water is well below the applicable standards of 10 pCi/l uranium and 100 mg/l nitrate as specified in the Decision Document (DOE 1999b). The 100 mg/l nitrate standard is a temporary modification of the underlying stream standard for nitrate (10 mg/l) in North Walnut Creek (DOE 1999b). System performance continues to be evaluated through monitoring water levels in the collection trench, collecting samples at additional locations and at increased sampling frequency.

Water levels in the newly installed wells downgradient of the system are being monitored monthly, these data are provided in Table 7. The slight rising trend seen last quarter in the colluvial well (70099) has stopped and water levels have declined three to four feet below those of last quarter. The bedrock well (70299) continued to show a more constant water level. Water elevation in well 70299 was about 5,877 feet above sea level. For this quarter the water

elevation in well 70099 ranged from 5,876 to 5,878 feet. At the same time, water levels within the collection trench fluctuated between 5,880 and 5,885 feet above sea level.

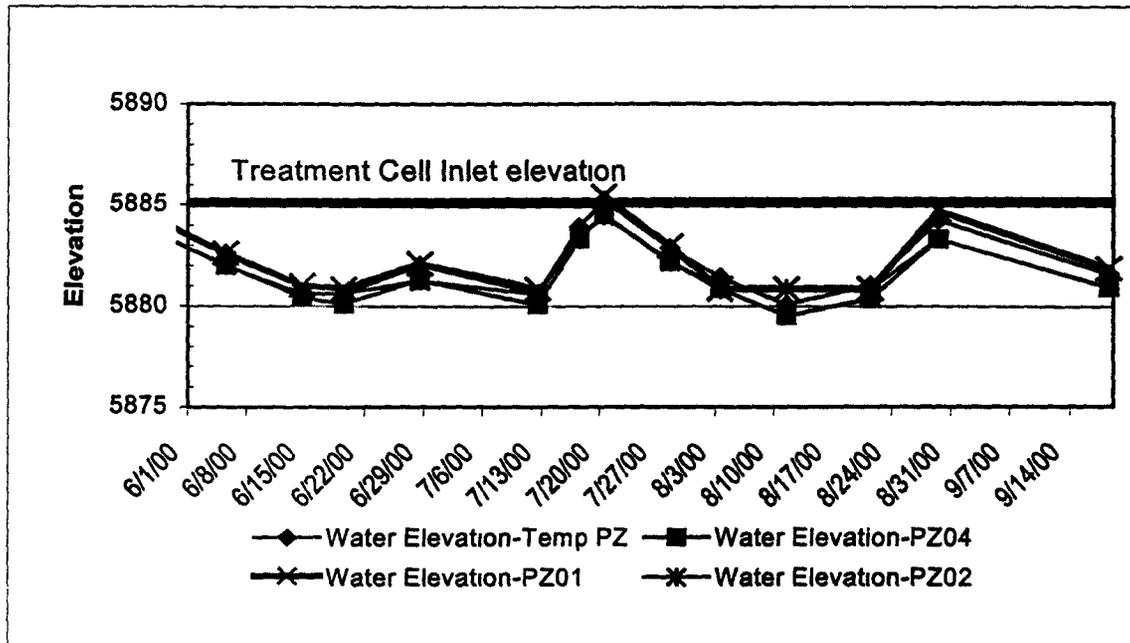
Table 7 Depth to Groundwater in Solar Ponds System Wells (in feet below top of casing)

Well	6/1/00	7/6/00	8/1/00	9/5/00
70099	16 87	20 84	20 1	19 03
70299	20 41	20 73	20 63	20 4

4.2 Treatment Effectiveness

Water levels continue to fluctuate in the collection trench as shown in Figure 9. While less than the normal amount of rainfall for this area was received this reporting period, minor flow into the treatment cell occurred immediately following large rainfall events, such as occurred on July 16th.

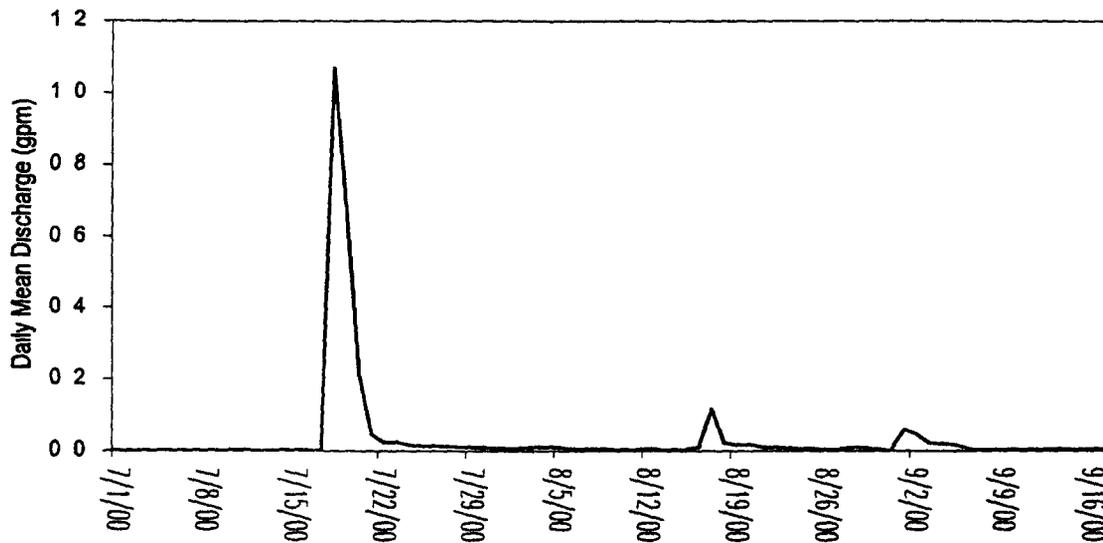
Figure 9 Water level elevation within the collection trench (in feet above sea level)



As of September 17, 2000, the total water volume treated by the system since installation was 46,905 gallons. Of this volume, 4,027 gallons of water were treated from July through September 17, 2000 with flow rates of 0 to 1.1 gpm (Figure 10). The maximum flow rate occurred on July 18th as a result of 1.9 inches of rain on July 16. Note: Preliminary data indicates that around 4,250 gallons of water flowed through the system as a result of the snow and rainfall on September 24th and 25th. Amounts will be verified and reported in the next Quarterly Report.

Because of the dry conditions, water was added to the Solar Ponds Plume treatment cell to ensure that the cell remained full of water and to provide nutrients for the bacteria. On August 16th and 17th, approximately 3,000 gallons of water were transferred from the discharge gallery area directly into the cell. Influent and effluent samples were collected at that time. Rainfall coincided with this water transfer and resulted in a water level rise in the Collection Trench.

Figure 10 Solar Ponds Plume Treatment System Flow Rates, July through September 2000



Despite the dry conditions, results from this reporting period continue to show that the system collects water with intermittent treatment when flow occurs into the treatment cell. The nitrate and uranium concentrations at the system influent, effluent and discharge gallery are provided in Table 8. These data are plotted over time with nitrate concentrations shown on Figure 11 and uranium activities shown on Figure 12. The effluent concentrations continue to be much lower than predicted. At this time, this is most likely a result of the increased residence time due to low flow rates. However, sufficient effluent data have been collected to indicate that the treatment system is functioning appropriately.

The discharge gallery nitrate concentrations were higher than the concentrations observed in the collection trench. The pre-existing downgradient part of the plume adjacent to the discharge gallery has nitrate concentrations above 500 mg/l. This part of the nitrate plume is believed to be seeping to the surface at the discharge gallery, contributing to the higher nitrate concentrations.

Table 8 Solar Ponds Plume Treatment System Analytical Results

Date Sampled	Nitrate (mg/l)			Uranium (pCi/l)		
	Influent	Effluent	Discharge Gallery	Influent	Effluent	Discharge Gallery
May 25, 2000	ns	<0.05	ns	ns	ns	Ns
May 31, 2000	ns	<0.05	ns	ns	ns	Ns
June 1, 2000	ns	ns	340	ns	ns	Ns
June 8, 2000	ns	ns	390	ns	ns	Ns
June 15, 2000	ns	ns	260	ns	ns	Ns
June 22, 2000	ns	ns	300	ns	ns	Ns
June 29, 2000	130	ns	180	21.72	ns	28.84
July 6, 2000	ns	ns	270	ns	ns	Ns
July 13, 2000	ns	ns	230	ns	ns	Ns
July 18, 2000	140	<0.05	150	19.67	0.233	26.17
July 20, 2000	ns	1.1	ns	ns	ns	Ns
August 17, 2000	130	0.16	260	26.03	0.061	36.91
August 24, 2000	ns	ns	220	ns	ns	Ns
August 31, 2000	ns	ns	170	ns	ns	Ns

ns - not sampled

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Figure 11 Nitrate Concentrations at the Solar Ponds Plume Treatment System

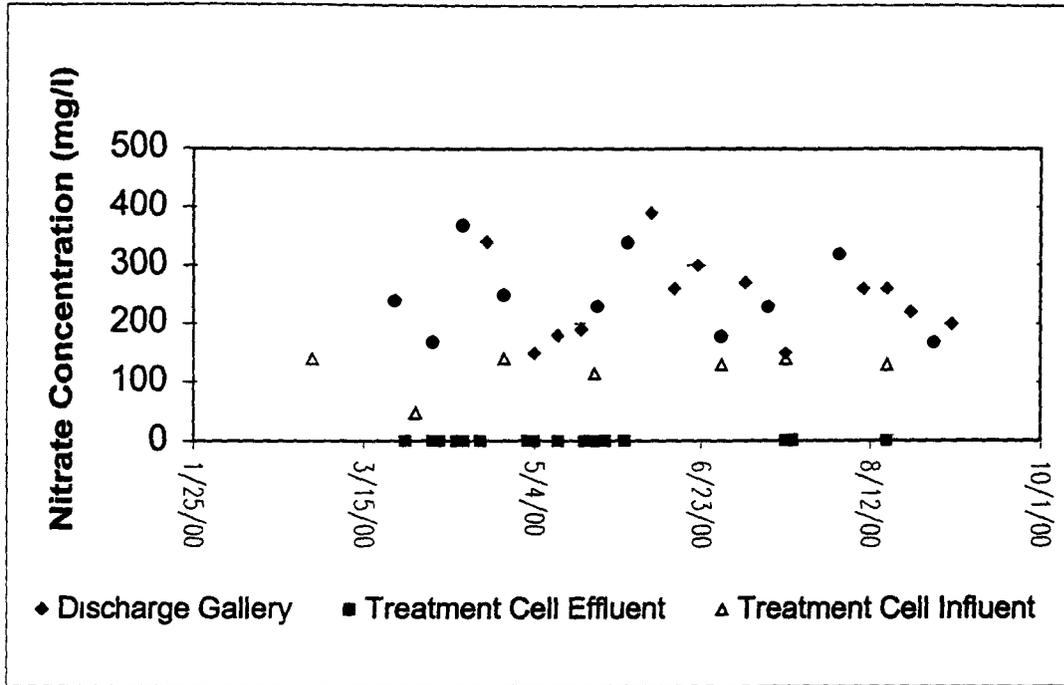
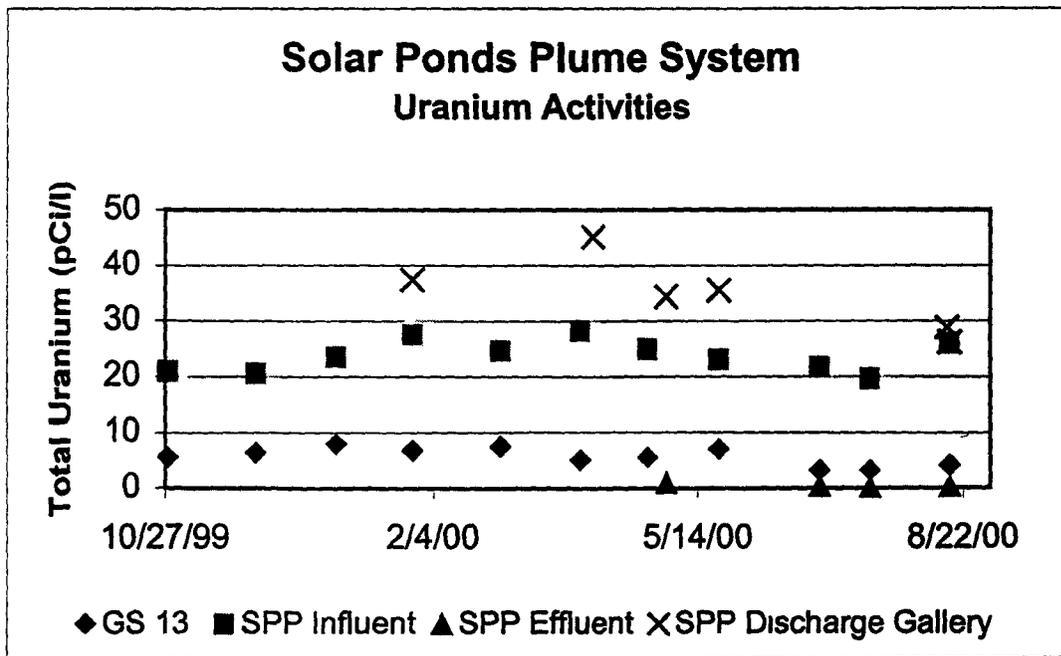


Figure 12 Uranium Activities at the Solar Ponds Plume System



GS13 and Pond A-3 were monitored frequently to verify that concentrations at both locations are well below the temporary stream standard of 100 mg/l. Table 9 provides the analytical data from this quarter. All available data are shown on Figure 13.

Table 9 Solar Ponds Plume Nitrate Results – Surface Water Locations

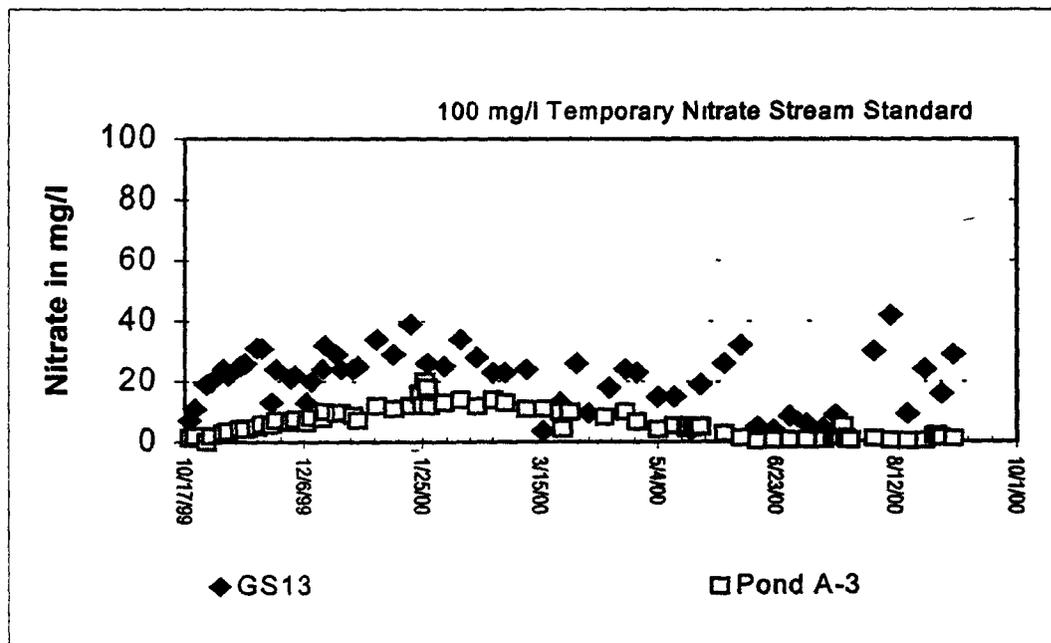
Date Sampled	GS13 Nitrate (mg/l)	Pond A-3 Nitrate (mg/l)
June 22, 2000	4	0.51
June 29, 2000	8.6	0.65
July 6, 2000	6	0.63
July 13, 2000	4.5	0.43
July 17, 2000 *	ns	1.7
July 18, 2000 *	9	1.6
July 19, 2000 *	ns	1.4
July 20, 2000 *	ns	1.5
July 21, 2000 *	ns	5.3
July 22, 2000 *	ns	1.3
July 23, 2000 *	ns	0.77
July 24, 2000 *	ns	0.48
August 3, 2000	30	1.1
August 10, 2000	42	0.4
August 17, 2000	9.3	0.23
August 24, 2000	24	0.31
August 28, 2000 *	ns	1.9
August 29, 2000 *	ns	2.3
August 30, 2000 *	ns	1.4
August 31, 2000 *	16	1.3

ns = not sampled

* Sampled during pond discharge

GS13 is the performance monitoring location for the Solar Ponds Plume System (DOE 199b). Nitrate concentrations measured at GS13 in North Walnut Creek have risen since the Solar Ponds Plume groundwater system was installed in 1999 (Figure 13). The nitrate concentrations fluctuate depending upon the precipitation and other factors, but are generally below 40 mg/l. At Pond A-3, located downstream of GS13, nitrate concentrations have been steadily declining since March 2000 and are now consistently below 10 mg/l.

Figure 13 Nitrate Concentrations in North Walnut Creek



The lower nitrate concentrations observed at GS13 during June and July were probably the result of incipient phytoremediation. Water leaving the discharge gallery flows along a pre-existing dirt road that now is totally reclaimed by volunteer vegetation. The road is no longer in service. As expected, a volunteer wetland developed at the discharge gallery. In the water, there are rushes and cattails, in the saturated soils there are foxtail grass and robust barnyard grass. Wetland plants in general are known to have relatively high nitrate uptake rates. With the shorter days in August, the vegetation began to senesce, and nitrate levels increased at GS13.

The Pond A-4 Outfall is a RFCA Point-of-Compliance for uranium, and there had been a concern that uranium activities may approach the Surface Water standard of 10 pCi/l due to the discharge of Solar Ponds Plume water into this drainage. However, samples collected during discharge contained uranium activities of approximately 3 to 4 pCi/l, well below the standard. These data were within the range of historical uranium activities for this location.

4.3 Conclusions and Planned Changes

The treatment cell appears to be providing treatment for nitrate and uranium as designed. Water levels in the collection trench, however, continue to fluctuate rather than holding a constant level of 11 feet. Water quality in North Walnut Creek continued to be well below applicable standards for nitrate and uranium.

Water levels within the collection trench and nearby wells will be monitored on a monthly basis. Samples at GS13, treatment system influent, effluent and discharge gallery will be collected on a monthly basis to monitor system performance and the impact to surface water. Results for this reporting period suggest that there may be seasonality to the system performance with normal treatment during fall and winter, and treatment augmented by phytoremediation during the spring and summer. At this time, the Site plans to continue to monitor the system for an additional year to document seasonal impacts and to determine if other actions are required.

5.0 OU 1 - 881 HILLSIDE GROUNDWATER COLLECTION AND TREATMENT SYSTEM

The Operable Unit 1 (OU1) - 881 Hillside groundwater collection and treatment system was installed in 1992 and consists of a 1,435 foot long French Drain and a separate upgradient Collection Well. The Collection Well collects VOC contaminated groundwater from within the plume. Trichloroethene is the primary contaminant. The French Drain was installed to prevent potential downgradient contaminant migration. Water collected was treated in the Consolidated Water Treatment Facility (CWTF).

The groundwater in the French Drain was collected and pumped from a central sump to the CWTF through existing buried pipes. Collection Well Water is collected using a portable trailer, then transported to the CWTF for treatment. Incomplete June 2000 water volumes were reported last quarter. The total water volume treated was 6,120 gallons from the French Drain, and 1,550 gallons from the Collection Well. For the period of July through August 29, 2000 the water volume collected from the French Drain was 7,740 gallons. Water volumes extracted from the Collection Well were 540 gallons in July and 990 gallons in August. Because the system was taken out of service (locked-out/tagged-out) for safety reasons prior to decommissioning the French Drain, no water was collected from the Collection Well in September. The system will be returned to service when decommissioning of the French Drain is completed.

5.1 Project Events and Effectiveness

Both the French Drain and Collection Well were sampled quarterly and were sampled August 24, 2000 for this quarter. Sample results have not been received and will be reported in the next Quarterly. Detected analytes from the June 20, 2000 sampling event are shown in Table 10.

Table 10 Sample results for the June 20, 2000 OU1 Sampling Event

Analyte	Collection Well (ug/l)	French Drain (ug/l)	RFCA Groundwater Tier 2 Action Levels (ug/l)
Tetrachloroethene	50	0.2 J	5
Trichloroethene	370	1	5
1,1-Dichloroethene	21	ND	7
Methylene Chloride	6 JB	ND	5

J - Analyte detected below the method detection limit

B - Analyte detected in sample and in the blank sample

ND - Not detected

5.2 Planned Changes

Because groundwater collected by the French Drain is consistently below RFCA Tier 2 Action Levels, the OU1 Corrective Action Decision (CAD)/Record of Decision (ROD) (DOE 1997b) included decommissioning the French Drain. Based on the declining concentrations of VOCs in the plume, the OU1 CAD/ROD Modification (in progress) is expected to include one year continued extraction and treatment of groundwater from the Collection Well, then utilizing the Collection Well to continue monitoring the plume.

French Drain decommissioning began on August 31, 2000 and is expected to be completed by September 30, 2000. As a result, water from the French Drain is no longer collected or sampled and will no longer be reported.

6.0 OU 7 - PRESENT LANDFILL SEEP COLLECTION SYSTEM

Groundwater contaminated with low concentrations of VOCs and semi-volatile organic compounds (SVOCs) discharges at a seep in the area of the Present Landfill (OU7). A passive seep interception and treatment system operated between May 1996 and October 1998, using granular activated carbon (GAC) to reduce the concentrations of VOCs and SVOCs before discharging to the Landfill Pond.

The system was evaluated in the fall of 1998 for treatment efficiency. The main contaminants that occur above performance objectives (RFCA action levels) are vinyl chloride and benzene. These chemicals are not removed well by GAC and would require monthly change-out of the carbon.

The treatment system was modified in October 1998 to aerate the discharged water. The new system minimizes waste generation and is more effective in removing vinyl chloride. Little change has been noted in benzene removal. Some treatment of SVOCs also occurs although the passive aeration treatment system is designed to treat VOCs.

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In the passive aeration treatment system, the water is collected in a settling basin, flows through pre-existing piping to a set of stepped flagstones, and then flows over a 6-foot long bed of gravel before discharging into the Landfill Pond. Flow is measured at the point of discharge and water quality samples have been collected from the settling basin (SW00396) and from the discharge area (SW00196). The OU7 aeration treatment has been in operation since October 26, 1998 and the results were reported in *Evaluation of OU7 Aeration Treatment System*, November 1998-October 1999 (Kaiser-Hill, 2000).

6.1 Project Events

In June, additional flagstone steps were placed and more frequent gravel clean out was implemented to improve the effectiveness of the passive aeration treatment system. Several maintenance activities took place in July and August. On July 5, a hose broke and interrupted flow through the system. The hose was replaced and flow restored on July 6th. The flow meter was repaired on July 26th. Mice twice got into the system piping, blocking flow. The overflow pipe outlet was covered with wire screen on August 7th to prevent further intrusions. This action appears to be successful in preventing mouse access.

The water volume treated by this system for this quarter was 98,208 gallons in July, 89,280 gallons in August, and 43,553 gallons in September (through the 12th). A total of 231,041 gallons of water was treated this quarter through September 12th.

6.2 Treatment Effectiveness

As planned, samples were collected in June and July for VOCs and in July and August for SVOCs. As shown in Table 11, the performance objectives for the compounds of interest, benzene, vinyl chloride and bis(2-ethylhexyl) phthalate, were met. An additional SVOC sample was collected in August but the analytical results are not yet available.

Table 11 OU7 Seep Collection System Effluent Sample Results for June, July and August 2000

Analyte	Sample Date	Concentration (ug/l)	Detection Limit (ug/l)	Performance Objective (ug/l)
Benzene	6/19/00	1	1	1
Vinyl Chloride	6/19/00	2	1	2
Benzene	7/11/00	1	1	1
Vinyl Chloride	7/11/00	2	1	2
Bis(2-ethylhexyl) phthalate	7/24/00	2 JB	10	10
Bis(2-ethylhexyl) phthalate	8/21/00	NA	10	10

J - Analyte detected below the method detection limit
B - Analyte detected in sample and in the blank sample
NA - not available

Water discharging from the OU7 Seep system meets surface water action levels. As stated in the RFCAs Action Level Framework, the Segment 5 stream standard for benzene is 3 ug/l, and the Segment 4 stream standard is 1 ug/l. While the Landfill Pond is located in Segment 4, water from the pond is transferred about once a year to the A-series ponds in Segment 5. Benzene is not an analyte of interest at either the A-4 or the Walnut and Indiana Street Points of Compliance.

6.3 Planned Changes

Based on the Evaluation Report (Kaiser Hill 2000) and on meetings with CDPHE and EPA in May and June, samples were to be collected monthly for VOCs until the performance objective for benzene was attained for two consecutive months. Samples were also to be collected for two additional months for SVOCs to verify that the performance objective is being achieved for bis(2-ethylhexyl) phthalate. Once performance objectives were consistently met, samples were to be collected semi-annually.

Because the performance objectives were attained for VOCs in June and July, sampling will now occur semi-annually. The next sampling event for VOCs is planned for December. If the August SVOC sample results show that the performance objectives are being achieved, then sampling for SVOCs will also change to a semi-annual frequency with the next sampling event in December.

7.0 REFERENCES

DOE, 1996, *Final Rocky Flats Cleanup Agreement*, Rocky Flats Environmental Technology Site, Golden, CO, July

DOE, 1997a, *Final Mound Site Plume Decision Document*, RF/RMRS-97-024, September

DOE, 1997b, *Corrective Action Decision/Record of Decision, Operable Unit 1 881 Hillside Area*, Rocky Flats Environmental Technology Site, Golden, Colorado, February

DOE, 1999a, *Final Proposed Action Memorandum For The East Trenches Plume*, RF/RMRS-98-258 UN

DOE, 1999b, *Final Solar Ponds Plume Decision Document*, RF/RMRS-98-286 UN, June

DOE, in progress, *Major Modification to the Operable Unit 1 Corrective Action Decision/Record Of Decision*, Rocky Flats Environmental Technology Site, Golden, Colorado

Kaiser Hill, 2000, *Evaluation of OU7 Aeration Treatment System*, November 1998-October 1999

Appendix A – Mound Plume Analytical Data

Appendix A - Mound Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit	Error
MOUND R1-1	6/14/00	1,1,1,2-TETRACHLOROETHANE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	1,1,1-TRICHLOROETHANE	TR1	0 7	UG/L	J	5	
MOUND R1-1	6/14/00	1,1,2,2-TETRACHLOROETHANE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	1,1 2-TRICHLOROETHANE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	1,1-DICHLOROETHANE	TR1	2	UG/L	U	5	
MOUND R1-1	6/14/00	1,1-DICHLOROETHENE	TR1	4	UG/L	U	5	
MOUND R1-1	6/14/00	1,1-DICHLOROPROPENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	1,2,3-TRICHLOROBENZENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	1,2,3-TRICHLOROPROPANE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	1,2,4-TRICHLOROBENZENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	1,2-DIBROMOETHANE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	1,2-DICHLOROBENZENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	1,2-DICHLOROETHANE	TR1	0 7	UG/L	J	5	
MOUND R1-1	6/14/00	1,2-DICHLOROPROPANE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	1,3-DICHLOROBENZENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	1,3-DICHLOROPROPANE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	1,4-DICHLOROBENZENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	2,2-DICHLOROPROPANE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	4-ISOPROPYLTOLUENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	ALUMINUM	TR1	30 9	UG/L		4 7	
MOUND R1-1	6/14/00	ALUMINUM	TR1	27 5	UG/L		4 7	
MOUND R1-1	6/14/00	ANTIMONY	TR1	0 55	UG/L	U	0 55	
MOUND R1-1	6/14/00	ANTIMONY	TR1	0 55	UG/L	U	0 55	
MOUND R1-1	6/14/00	ARSENIC	TR1	0 8	UG/L	U	0 8	
MOUND R1-1	6/14/00	ARSENIC	TR1	0 8	UG/L	U	0 8	
MOUND R1-1	6/14/00	BARIUM	TR1	18 4	UG/L	B	0 02	
MOUND R1-1	6/14/00	BARIUM	TR1	19 3	UG/L	B	0 02	
MOUND R1-1	6/14/00	BENZENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	BENZENE, 1,2,4-TRIMETHYL	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	BENZENE, 1,3,5-TRIMETHYL-	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	BERYLLIUM	TR1	0 06	UG/L	B	0 02	
MOUND R1-1	6/14/00	BERYLLIUM	TR1	0 06	UG/L	B	0 02	
MOUND R1-1	6/14/00	BICARBONATE AS CaCO3	TR1	240	MG/L		5	
MOUND R1-1	6/14/00	BROMIDE	TR1	0 4	MG/L		0 1	
MOUND R1-1	6/14/00	BROMOBENZENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	BROMOCHLOROMETHANE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	BROMODICHLOROMETHANE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	BROMOFORM	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	BROMOMETHANE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	CADMIUM	TR1	0 1	UG/L	U	0 1	
MOUND R1-1	6/14/00	CADMIUM	TR1	0 1	UG/L	U	0 1	
MOUND R1-1	6/14/00	CALCIUM	TR1	26700	UG/L		3	
MOUND R1-1	6/14/00	CALCIUM	TR1	27100	UG/L		3	
MOUND R1-1	6/14/00	CARBON TETRACHLORIDE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	CHLORIDE	TR1	72	MG/L		0 5	
MOUND R1-1	6/14/00	CHLOROETHANE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	CHLOROETHANE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	CHLOROFORM	TR1	12	UG/L		5	
MOUND R1-1	6/14/00	CHLOROMETHANE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	CHROMIUM	TR1	0 2	UG/L	B	0 15	
MOUND R1-1	6/14/00	CHROMIUM	TR1	0 38	UG/L	B	0 15	
MOUND R1-1	6/14/00	cis-1,2-DICHLOROETHENE	TR1	22	UG/L		5	
MOUND R1-1	6/14/00	cis-1,3-DICHLOROPROPENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	COBALT	TR1	0 18	UG/L	U	0 18	
MOUND R1-1	6/14/00	COBALT	TR1	0 18	UG/L	U	0 18	
MOUND R1-1	6/14/00	COPPER	TR1	0 2	UG/L	U	0 2	
MOUND R1-1	6/14/00	COPPER	TR1	0 32	UG/L	B	0 2	
MOUND R1-1	6/14/00	DIBROMOCHLOROMETHANE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	DIBROMOMETHANE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	DICHLORODIFLUOROMETHANE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	ETHYLBENZENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	FLUORIDE	TR1	0 72	MG/L		0 05	
MOUND R1-1	6/14/00	GROSS ALPHA	TR1	-0 033	PCI/L	U	0 548	0 285

Appendix A - Mound Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit	Error
MOUND R1-1	6/14/00	GROSS BETA	TR1	0 64	PCI/L	U	1 04	0 626
MOUND R1-1	6/14/00	HEXACHLOROBUTADIENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	IRON	TR1	4000	UG/L		2 7	
MOUND R1-1	6/14/00	IRON	TR1	4840	UG/L		2 7	
MOUND R1-1	6/14/00	ISOPROPYLBENZENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	LEAD	TR1	0 58	UG/L	U	0 58	
MOUND R1-1	6/14/00	LEAD	TR1	1 5	UG/L	B	0 58	
MOUND R1-1	6/14/00	LITHIUM	TR1	26 1	UG/L	B	0 05	
MOUND R1-1	6/14/00	LITHIUM	TR1	26 2	UG/L	B	0 05	
MOUND R1-1	6/14/00	MAGNESIUM	TR1	28100	UG/L		1 9	
MOUND R1-1	6/14/00	MAGNESIUM	TR1	28200	UG/L		1 9	
MOUND R1-1	6/14/00	MANGANESE	TR1	63 8	UG/L		0 05	
MOUND R1-1	6/14/00	MANGANESE	TR1	65 2	UG/L		0 05	
MOUND R1-1	6/14/00	MERCURY	TR1	0 1	UG/L	U	0 1	
MOUND R1-1	6/14/00	MERCURY	TR1	0 1	UG/L	U	0 1	
MOUND R1-1	6/14/00	METHYLENE CHLORIDE	TR1	17	UG/L	BJ	5	
MOUND R1-1	6/14/00	MOLYBDENUM	TR1	1 5	UG/L	B	0 28	
MOUND R1-1	6/14/00	MOLYBDENUM	TR1	1 5	UG/L	B	0 28	
MOUND R1-1	6/14/00	NAPHTHALENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	n-BUTYLBENZENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	NICKEL	TR1	0 72	UG/L	B	0 35	
MOUND R1-1	6/14/00	NICKEL	TR1	1 3	UG/L	B	0 35	
MOUND R1-1	6/14/00	NITRATE/NITRITE	TR1	0 05	MG/L	U	0 05	
MOUND R1-1	6/14/00	n-PROPYLBENZENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	o-CHLOROTOLUENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	p-CHLOROTOLUENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	POTASSIUM	TR1	1420	UG/L	B	4 6	
MOUND R1-1	6/14/00	POTASSIUM	TR1	1410	UG/L	B	4 6	
MOUND R1-1	6/14/00	PROPANE, 1,2-DIBROMO-3-CHLORO-	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	sec-BUTYLBENZENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	SELENIUM	TR1	1 1	UG/L	U	1 1	
MOUND R1-1	6/14/00	SELENIUM	TR1	1 1	UG/L	U	1 1	
MOUND R1-1	6/14/00	SILVER	TR1	0 12	UG/L	U	0 12	
MOUND R1-1	6/14/00	SILVER	TR1	0 12	UG/L	U	0 12	
MOUND R1-1	6/14/00	SODIUM	TR1	72700	UG/L		32 1	
MOUND R1-1	6/14/00	SODIUM	TR1	73100	UG/L		32 1	
MOUND R1-1	6/14/00	STRONTIUM	TR1	185	UG/L	B	0 02	
MOUND R1-1	6/14/00	STRONTIUM	TR1	188	UG/L	B	0 02	
MOUND R1-1	6/14/00	STYRENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	SULFATE	TR1	7	MG/L		1	
MOUND R1-1	6/14/00	tert-BUTYLBENZENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	TETRACHLOROETHENE	TR1	40	UG/L		5	
MOUND R1-1	6/14/00	THALLIUM	TR1	0 95	UG/L	U	0 95	
MOUND R1-1	6/14/00	THALLIUM	TR1	0 95	UG/L	U	0 95	
MOUND R1-1	6/14/00	TIN	TR1	0 85	UG/L	U	0 85	
MOUND R1-1	6/14/00	TIN	TR1	0 85	UG/L	U	0 85	
MOUND R1-1	6/14/00	TOLUENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	TOTAL XYLENES	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	trans-1,2-DICHLOROETHENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	trans-1,3-DICHLOROPROPENE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	TRICHLOROETHENE	TR1	46	UG/L		5	
MOUND R1-1	6/14/00	TRICHLOROFLUOROMETHANE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	URANIUM-233,-234	TR1	0 0129	PCI/L	U	0 0785	0 0446
MOUND R1-1	6/14/00	URANIUM-235	TR1	0 0137	PCI/L	U	0 0499	0 0222
MOUND R1-1	6/14/00	URANIUM-238	TR1	0 00752	PCI/L	U	0 062	0 0352
MOUND R1-1	6/14/00	VANADIUM	TR1	0 18	UG/L	U	0 18	
MOUND R1-1	6/14/00	VANADIUM	TR1	0 18	UG/L	U	0 18	
MOUND R1-1	6/14/00	VINYL CHLORIDE	TR1	5	UG/L	U	5	
MOUND R1-1	6/14/00	ZINC	TR1	2 5	UG/L	B	0 18	
MOUND R1-1	6/14/00	ZINC	TR1	5 7	UG/L	B	0 18	
MOUND R1-2	6/14/00	1,1,1,2-TETRACHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	1,1,1-TRICHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	1,1,2-TETRACHLOROETHANE	TR1	1	UG/L	U	1	

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Appendix A - Mound Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit	Error
MOUND R1-2	6/14/00	1,1,2-TRICHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	1,1-DICHLOROETHANE	TR1	2	UG/L		1	
MOUND R1-2	6/14/00	1,1-DICHLOROETHENE	TR1	2	UG/L		1	
MOUND R1-2	6/14/00	1,1-DICHLOROPROPENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	1,2,3-TRICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	1,2,3-TRICHLOROPROPANE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	1,2,4-TRICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	1,2-DIBROMOETHANE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	1,2-DICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	1,2-DICHLOROETHANE	TR1	0 7	UG/L	J	1	
MOUND R1-2	6/14/00	1,2-DICHLOROPROPANE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	1,3-DICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	1,3-DICHLOROPROPANE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	1,4-DICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	2,2-DICHLOROPROPANE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	4-ISOPROPYLTOLUENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	ALUMINUM	TR1	33 9	UG/L		4 7	
MOUND R1-2	6/14/00	ALUMINUM	TR1	24	UG/L		4 7	
MOUND R1-2	6/14/00	ANTIMONY	TR1	0 69	UG/L	B	0 55	
MOUND R1-2	6/14/00	ANTIMONY	TR1	0 55	UG/L	U	0 55	
MOUND R1-2	6/14/00	ARSENIC	TR1	0 8	UG/L	U	0 8	
MOUND R1-2	6/14/00	ARSENIC	TR1	0 8	UG/L	U	0 8	
MOUND R1-2	6/14/00	BARIUM	TR1	1 2	UG/L	B	0 02	
MOUND R1-2	6/14/00	BARIUM	TR1	1 2	UG/L	B	0 02	
MOUND R1-2	6/14/00	BENZENE	TR1	0 3	UG/L	J	1	
MOUND R1-2	6/14/00	BENZENE, 1,2,4-TRIMETHYL	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	BENZENE, 1,3,5-TRIMETHYL-	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	BERYLLIUM	TR1	0 06	UG/L	B	0 02	
MOUND R1-2	6/14/00	BERYLLIUM	TR1	0 06	UG/L	B	0 02	
MOUND R1-2	6/14/00	BICARBONATE AS CaCO3	TR1	90	MG/L		5	
MOUND R1-2	6/14/00	BROMIDE	TR1	0 4	MG/L		0 1	
MOUND R1-2	6/14/00	BROMOBENZENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	BROMOCHLOROMETHANE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	BROMODICHLOROMETHANE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	BROMOFORM	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	BROMOMETHANE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	CADMIUM	TR1	0 1	UG/L	U	0 1	
MOUND R1-2	6/14/00	CADMIUM	TR1	0 1	UG/L	U	0 1	
MOUND R1-2	6/14/00	CALCIUM	TR1	3690	UG/L	B	3	
MOUND R1-2	6/14/00	CALCIUM	TR1	4040	UG/L	B	3	
MOUND R1-2	6/14/00	CARBON TETRACHLORIDE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	CHLORIDE	TR1	70	MG/L		0 5	
MOUND R1-2	6/14/00	CHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	CHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	CHLOROFORM	TR1	0 5	UG/L	J	1	
MOUND R1-2	6/14/00	CHLOROMETHANE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	CHROMIUM	TR1	0 47	UG/L	B	0 15	
MOUND R1-2	6/14/00	CHROMIUM	TR1	0 18	UG/L	B	0 15	
MOUND R1-2	6/14/00	cis-1,2-DICHLOROETHENE	TR1	16	UG/L		1	
MOUND R1-2	6/14/00	cis-1,3-DICHLOROPROPENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	COBALT	TR1	0 18	UG/L	U	0 18	
MOUND R1-2	6/14/00	COBALT	TR1	0 18	UG/L	U	0 18	
MOUND R1-2	6/14/00	COPPER	TR1	0 2	UG/L	U	0 2	
MOUND R1-2	6/14/00	COPPER	TR1	0 2	UG/L	U	0 2	
MOUND R1-2	6/14/00	DIBROMOCHLOROMETHANE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	DIBROMOMETHANE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	DICHLORODIFLUOROMETHANE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	ETHYLBENZENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	FLUORIDE	TR1	0 66	MG/L		0 05	
MOUND R1-2	6/14/00	GROSS ALPHA	TR1	-0 37	PCI/L	U	1 09	0 584
MOUND R1-2	6/14/00	GROSS BETA	TR1	-0 112	PCI/L	U	1 28	0 738
MOUND R1-2	6/14/00	HEXACHLOROBTADIENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	IRON	TR1	184	UG/L		2 7	

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Appendix A - Mound Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit	Error
MOUND R1-2	6/14/00	IRON	TR1	336	UG/L		2 7	
MOUND R1-2	6/14/00	ISOPROPYLBENZENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	LEAD	TR1	0 58	UG/L	U	0 58	
MOUND R1-2	6/14/00	LEAD	TR1	0 58	UG/L	U	0 58	
MOUND R1-2	6/14/00	LITHIUM	TR1	22 9	UG/L	B	0 05	
MOUND R1-2	6/14/00	LITHIUM	TR1	25 6	UG/L	B	0 05	
MOUND R1-2	6/14/00	MAGNESIUM	TR1	20900	UG/L		1 9	
MOUND R1-2	6/14/00	MAGNESIUM	TR1	23200	UG/L		1 9	
MOUND R1-2	6/14/00	MANGANESE	TR1	19 4	UG/L		0 05	
MOUND R1-2	6/14/00	MANGANESE	TR1	22 1	UG/L		0 05	
MOUND R1-2	6/14/00	MERCURY	TR1	0 1	UG/L	U	0 1	
MOUND R1-2	6/14/00	MERCURY	TR1	0 1	UG/L	U	0 1	
MOUND R1-2	6/14/00	METHYLENE CHLORIDE	TR1	2	UG/L	B	1	
MOUND R1-2	6/14/00	MOLYBDENUM	TR1	3 9	UG/L	B	0 28	
MOUND R1-2	6/14/00	MOLYBDENUM	TR1	4 5	UG/L	B	0 28	
MOUND R1-2	6/14/00	NAPHTHALENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	n-BUTYLBENZENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	NICKEL	TR1	0 81	UG/L	B	0 35	
MOUND R1-2	6/14/00	NICKEL	TR1	0 54	UG/L	B	0 35	
MOUND R1-2	6/14/00	NITRATE/NITRITE	TR1	0 05	MG/L	U	0 05	
MOUND R1-2	6/14/00	n-PROPYLBENZENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	o-CHLOROTOLUENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	p-CHLOROTOLUENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	POTASSIUM	TR1	1290	UG/L	B	4 6	
MOUND R1-2	6/14/00	POTASSIUM	TR1	1470	UG/L	B	4 6	
MOUND R1-2	6/14/00	PROPANE, 1,2-DIBROMO-3-CHLORO-	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	sec-BUTYLBENZENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	SELENIUM	TR1	1 1	UG/L	U	1 1	
MOUND R1-2	6/14/00	SELENIUM	TR1	1 1	UG/L	U	1 1	
MOUND R1-2	6/14/00	SILVER	TR1	0 3	UG/L	B	0 12	
MOUND R1-2	6/14/00	SILVER	TR1	0 18	UG/L	B	0 12	
MOUND R1-2	6/14/00	SODIUM	TR1	66000	UG/L		32 1	
MOUND R1-2	6/14/00	SODIUM	TR1	74000	UG/L		32 1	
MOUND R1-2	6/14/00	STRONTIUM	TR1	9 4	UG/L	B	0 02	
MOUND R1-2	6/14/00	STRONTIUM	TR1	10 6	UG/L	B	0 02	
MOUND R1-2	6/14/00	STYRENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	SULFATE	TR1	1	MG/L	U	1	
MOUND R1-2	6/14/00	tert-BUTYLBENZENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	TETRACHLOROETHENE	TR1	18	UG/L		1	
MOUND R1-2	6/14/00	THALLIUM	TR1	0 95	UG/L	U	0 95	
MOUND R1-2	6/14/00	THALLIUM	TR1	0 95	UG/L	U	0 95	
MOUND R1-2	6/14/00	TIN	TR1	0 85	UG/L	U	0 85	
MOUND R1-2	6/14/00	TIN	TR1	0 85	UG/L	U	0 85	
MOUND R1-2	6/14/00	TOLUENE	TR1	0 2	UG/L	J	1	
MOUND R1-2	6/14/00	TOTAL XYLENES	TR1	0 1	UG/L	J	1	
MOUND R1-2	6/14/00	trans-1,2-DICHLOROETHENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	trans-1,3-DICHLOROPROPENE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	TRICHLOROETHENE	TR1	11	UG/L		1	
MOUND R1-2	6/14/00	TRICHLOROFLUOROMETHANE	TR1	1	UG/L	U	1	
MOUND R1-2	6/14/00	URANIUM-233,-234	TR1	0 0164	PCI/L	U	0 0958	0 0588
MOUND R1-2	6/14/00	URANIUM-235	TR1	0 0247	PCI/L	U	0 0615	0 044
MOUND R1-2	6/14/00	URANIUM-238	TR1	0 0111	PCI/L	U	0 0754	0 0464
MOUND R1-2	6/14/00	VANADIUM	TR1	0 18	UG/L	U	0 18	
MOUND R1-2	6/14/00	VANADIUM	TR1	0 18	UG/L	U	0 18	
MOUND R1-2	6/14/00	VINYL CHLORIDE	TR1	0 2	UG/L	J	1	
MOUND R1-2	6/14/00	ZINC	TR1	5 7	UG/L	B	0 18	
MOUND R1-2	6/14/00	ZINC	TR1	2 7	UG/L	B	0 18	
MOUND R1-3	6/14/00	1,1,1,2-TETRACHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	1,1,1-TRICHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	1,1,2,2-TETRACHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	1,1,2-TRICHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	1,1-DICHLOROETHANE	TR1	2	UG/L		1	
MOUND R1-3	6/14/00	1,1-DICHLOROETHENE	TR1	2	UG/L		1	

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Appendix A - Mound Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit	Error
MOUND R1-3	6/14/00	1,1-DICHLOROPROPENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	1,2,3-TRICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	1,2,3-TRICHLOROPROPANE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	1,2,4-TRICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	1,2-DIBROMOETHANE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	1,2-DICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	1,2-DICHLOROETHANE	TR1	07	UG/L	J	1	
MOUND R1-3	6/14/00	1,2-DICHLOROPROPANE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	1,3-DICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	1,3-DICHLOROPROPANE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	1,4-DICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	2,2-DICHLOROPROPANE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	4-ISOPROPYLTOLUENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	ALUMINUM	TR1	307	UG/L		47	
MOUND R1-3	6/14/00	ALUMINUM	TR1	253	UG/L		47	
MOUND R1-3	6/14/00	ANTIMONY	TR1	055	UG/L	U	055	
MOUND R1-3	6/14/00	ANTIMONY	TR1	055	UG/L	U	055	
MOUND R1-3	6/14/00	ARSENIC	TR1	08	UG/L	U	08	
MOUND R1-3	6/14/00	ARSENIC	TR1	08	UG/L	U	08	
MOUND R1-3	6/14/00	BARIUM	TR1	11	UG/L	B	002	
MOUND R1-3	6/14/00	BARIUM	TR1	13	UG/L	B	002	
MOUND R1-3	6/14/00	BENZENE	TR1	03	UG/L	J	1	
MOUND R1-3	6/14/00	BENZENE, 1,2,4-TRIMETHYL	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	BENZENE, 1,3,5-TRIMETHYL-	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	BERYLLIUM	TR1	006	UG/L	B	002	
MOUND R1-3	6/14/00	BERYLLIUM	TR1	01	UG/L	B	002	
MOUND R1-3	6/14/00	BICARBONATE AS CaCO3	TR1	50	MG/L		5	
MOUND R1-3	6/14/00	BROMIDE	TR1	04	MG/L		01	
MOUND R1-3	6/14/00	BROMOBENZENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	BROMOCHLOROMETHANE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	BROMODICHLOROMETHANE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	BROMOFORM	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	BROMOMETHANE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	CADMIUM	TR1	012	UG/L	B	01	
MOUND R1-3	6/14/00	CADMIUM	TR1	01	UG/L	U	01	
MOUND R1-3	6/14/00	CALCIUM	TR1	3150	UG/L	B	3	
MOUND R1-3	6/14/00	CALCIUM	TR1	3210	UG/L	B	3	
MOUND R1-3	6/14/00	CARBON TETRACHLORIDE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	CHLORIDE	TR1	70	MG/L		05	
MOUND R1-3	6/14/00	CHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	CHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	CHLOROFORM	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	CHLOROMETHANE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	CHROMIUM	TR1	025	UG/L	B	015	
MOUND R1-3	6/14/00	CHROMIUM	TR1	023	UG/L	B	015	
MOUND R1-3	6/14/00	cis-1,2-DICHLOROETHENE	TR1	16	UG/L		1	
MOUND R1-3	6/14/00	cis-1,3-DICHLOROPROPENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	COBALT	TR1	018	UG/L	U	018	
MOUND R1-3	6/14/00	COBALT	TR1	093	UG/L	B	018	
MOUND R1-3	6/14/00	COPPER	TR1	02	UG/L	U	02	
MOUND R1-3	6/14/00	COPPER	TR1	085	UG/L	B	02	
MOUND R1-3	6/14/00	DIBROMOCHLOROMETHANE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	DIBROMOMETHANE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	DICHLORODIFLUOROMETHANE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	ETHYLBENZENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	FLUORIDE	TR1	062	MG/L		005	
MOUND R1-3	6/14/00	GROSS ALPHA	TR1	0199	PCI/L	U	07	0367
MOUND R1-3	6/14/00	GROSS BETA	TR1	071	PCI/L	U	108	0646
MOUND R1-3	6/14/00	HEXACHLOROBUTADIENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	IRON	TR1	250	UG/L		27	
MOUND R1-3	6/14/00	IRON	TR1	129	UG/L		27	
MOUND R1-3	6/14/00	ISOPROPYLBENZENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	LEAD	TR1	058	UG/L	U	058	

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Appendix A - Mound Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit	Error
MOUND R1-3	6/14/00	LEAD	TR1	2 1	UG/L		0 58	
MOUND R1-3	6/14/00	LITHIUM	TR1	26 9	UG/L	B	0 05	
MOUND R1-3	6/14/00	LITHIUM	TR1	27 3	UG/L	B	0 05	
MOUND R1-3	6/14/00	MAGNESIUM	TR1	23200	UG/L		1 9	
MOUND R1-3	6/14/00	MAGNESIUM	TR1	23400	UG/L		1 9	
MOUND R1-3	6/14/00	MANGANESE	TR1	41 8	UG/L		0 05	
MOUND R1-3	6/14/00	MANGANESE	TR1	40 3	UG/L		0 05	
MOUND R1-3	6/14/00	MERCURY	TR1	0 1	UG/L	U	0 1	
MOUND R1-3	6/14/00	MERCURY	TR1	0 1	UG/L	U	0 1	
MOUND R1-3	6/14/00	METHYLENE CHLORIDE	TR1	2	UG/L	B	1	
MOUND R1-3	6/14/00	MOLYBDENUM	TR1	6 7	UG/L	B	0 28	
MOUND R1-3	6/14/00	MOLYBDENUM	TR1	6 6	UG/L	B	0 28	
MOUND R1-3	6/14/00	NAPHTHALENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	n-BUTYLBENZENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	NICKEL	TR1	0 57	UG/L	B	0 35	
MOUND R1-3	6/14/00	NICKEL	TR1	1 1	UG/L	B	0 35	
MOUND R1-3	6/14/00	NITRATE/NITRITE	TR1	0 05	MG/L	U	0 05	
MOUND R1-3	6/14/00	n-PROPYLBENZENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	o-CHLOROTOLUENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	p-CHLOROTOLUENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	POTASSIUM	TR1	1530	UG/L	B	4 6	
MOUND R1-3	6/14/00	POTASSIUM	TR1	1510	UG/L	B	4 6	
MOUND R1-3	6/14/00	PROPANE, 1,2-DIBROMO-3-CHLORO-	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	sec-BUTYLBENZENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	SELENIUM	TR1	1 1	UG/L	U	1 1	
MOUND R1-3	6/14/00	SELENIUM	TR1	1 1	UG/L	U	1 1	
MOUND R1-3	6/14/00	SILVER	TR1	0 12	UG/L	U	0 12	
MOUND R1-3	6/14/00	SILVER	TR1	0 12	UG/L	U	0 12	
MOUND R1-3	6/14/00	SODIUM	TR1	77400	UG/L		32 1	
MOUND R1-3	6/14/00	SODIUM	TR1	75400	UG/L		32 1	
MOUND R1-3	6/14/00	STRONTIUM	TR1	6 1	UG/L	B	0 02	
MOUND R1-3	6/14/00	STRONTIUM	TR1	6 2	UG/L	B	0 02	
MOUND R1-3	6/14/00	STYRENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	SULFATE	TR1	1	MG/L	U	1	
MOUND R1-3	6/14/00	tert-BUTYLBENZENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	TETRACHLOROETHENE	TR1	13	UG/L		1	
MOUND R1-3	6/14/00	THALLIUM	TR1	0 95	UG/L	U	0 95	
MOUND R1-3	6/14/00	THALLIUM	TR1	1 2	UG/L	B	0 95	
MOUND R1-3	6/14/00	TIN	TR1	0 85	UG/L	U	0 85	
MOUND R1-3	6/14/00	TIN	TR1	0 85	UG/L	U	0 85	
MOUND R1-3	6/14/00	TOLUENE	TR1	0 1	UG/L	J	1	
MOUND R1-3	6/14/00	TOTAL XYLENES	TR1	0 1	UG/L	J	1	
MOUND R1-3	6/14/00	trans-1,2-DICHLOROETHENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	trans-1,3-DICHLOROPROPENE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	TRICHLOROETHENE	TR1	8	UG/L		1	
MOUND R1-3	6/14/00	TRICHLOROFLUOROMETHANE	TR1	1	UG/L	U	1	
MOUND R1-3	6/14/00	URANIUM-233,-234	TR1	0 0613	PCI/L	U	0 0813	0 0664
MOUND R1-3	6/14/00	URANIUM-235	TR1	0 02	PCI/L	U	0 0519	0 0538
MOUND R1-3	6/14/00	URANIUM-238	TR1	0 00812	PCI/L	U	0 0642	0 0371
MOUND R1-3	6/14/00	VANADIUM	TR1	0 18	UG/L	U	0 18	
MOUND R1-3	6/14/00	VANADIUM	TR1	0 95	UG/L	B	0 18	
MOUND R1-3	6/14/00	VINYL CHLORIDE	TR1	0 2	UG/L	J	1	
MOUND R1-3	6/14/00	ZINC	TR1	2 4	UG/L	B	0 18	
MOUND R1-3	6/14/00	ZINC	TR1	3 8	UG/L	B	0 18	
MOUND R1-E	6/14/00	1,1,1,2-TETRACHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	1,1,1-TRICHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	1,1,2,2-TETRACHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	1,1,2-TRICHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	1-DICHLOROETHANE	TR1	2	UG/L		1	
MOUND R1-E	6/14/00	1,1-DICHLOROETHENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	1,1-DICHLOROPROPENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	1,2,3-TRICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	1,2,3-TRICHLOROPROPANE	TR1	1	UG/L	U	1	

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Appendix A - Mound Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit	Error
MOUND R1-E	6/14/00	1,2,4-TRICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	1,2-DIBROMOETHANE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	1,2-DICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	1,2-DICHLOROETHANE	TR1	0.6	UG/L	J	1	
MOUND R1-E	6/14/00	1,2-DICHLOROPROPANE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	1,3-DICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	1,3-DICHLOROPROPANE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	1,4-DICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	2,2-DICHLOROPROPANE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	4-ISOPROPYLTOLUENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	ALUMINUM	TR1	23.9	UG/L		4.7	
MOUND R1-E	6/14/00	ALUMINUM	TR1	27	UG/L		4.7	
MOUND R1-E	6/14/00	ANTIMONY	TR1	0.55	UG/L	U	0.55	
MOUND R1-E	6/14/00	ANTIMONY	TR1	0.55	UG/L	U	0.55	
MOUND R1-E	6/14/00	ARSENIC	TR1	0.8	UG/L	U	0.8	
MOUND R1-E	6/14/00	ARSENIC	TR1	0.8	UG/L	U	0.8	
MOUND R1-E	6/14/00	BARIUM	TR1	9.6	UG/L	B	0.02	
MOUND R1-E	6/14/00	BARIUM	TR1	9.6	UG/L	B	0.02	
MOUND R1-E	6/14/00	BENZENE	TR1	0.4	UG/L	J	1	
MOUND R1-E	6/14/00	BENZENE, 1,2,4-TRIMETHYL	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	BENZENE, 1,3,5-TRIMETHYL-	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	BERYLLIUM	TR1	0.07	UG/L	B	0.02	
MOUND R1-E	6/14/00	BERYLLIUM	TR1	0.08	UG/L	B	0.02	
MOUND R1-E	6/14/00	BICARBONATE AS CaCO3	TR1	5	MG/L	U	5	
MOUND R1-E	6/14/00	BROMIDE	TR1	0.4	MG/L		0.1	
MOUND R1-E	6/14/00	BROMOBENZENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	BROMOCHLOROMETHANE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	BROMODICHLOROMETHANE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	BROMOFORM	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	BROMOMETHANE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	CADMIUM	TR1	0.16	UG/L	B	0.1	
MOUND R1-E	6/14/00	CADMIUM	TR1	0.86	UG/L	B	0.1	
MOUND R1-E	6/14/00	CALCIUM	TR1	2370	UG/L	B	3	
MOUND R1-E	6/14/00	CALCIUM	TR1	2370	UG/L	B	3	
MOUND R1-E	6/14/00	CARBON TETRACHLORIDE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	CHLORIDE	TR1	76	MG/L		0.5	
MOUND R1-E	6/14/00	CHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	CHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	CHLOROFORM	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	CHLOROMETHANE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	CHROMIUM	TR1	0.32	UG/L	B	0.15	
MOUND R1-E	6/14/00	CHROMIUM	TR1	0.72	UG/L	B	0.15	
MOUND R1-E	6/14/00	cis-1,2-DICHLOROETHENE	TR1	3	UG/L		1	
MOUND R1-E	6/14/00	cis-1,3-DICHLOROPROPENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	COBALT	TR1	0.18	UG/L	U	0.18	
MOUND R1-E	6/14/00	COBALT	TR1	0.3	UG/L	B	0.18	
MOUND R1-E	6/14/00	COPPER	TR1	0.2	UG/L	U	0.2	
MOUND R1-E	6/14/00	COPPER	TR1	0.69	UG/L	B	0.2	
MOUND R1-E	6/14/00	DIBROMOCHLOROMETHANE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	DIBROMOMETHANE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	DICHLORODIFLUOROMETHANE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	ETHYLBENZENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	FLUORIDE	TR1	0.51	MG/L		0.05	
MOUND R1-E	6/14/00	GROSS ALPHA	TR1	-0.0212	PCI/L	U	0.813	0.446
MOUND R1-E	6/14/00	GROSS BETA	TR1	0.441	PCI/L	U	1.16	0.685
MOUND R1-E	6/14/00	HEXACHLOROBUTADIENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	IRON	TR1	21.7	UG/L		2.7	
MOUND R1-E	6/14/00	IRON	TR1	19.8	UG/L	B	2.7	
MOUND R1-E	6/14/00	ISOPROPYLBENZENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	LEAD	TR1	1.8	UG/L	B	0.58	
MOUND R1-E	6/14/00	LEAD	TR1	10.3	UG/L		0.58	
MOUND R1-E	6/14/00	LITHIUM	TR1	25.6	UG/L	B	0.05	
MOUND R1-E	6/14/00	LITHIUM	TR1	25.8	UG/L	B	0.05	

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Appendix A - Mound Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit	Error
MOUND R1-E	6/14/00	MAGNESIUM	TR1	15200	UG/L		19	
MOUND R1-E	6/14/00	MAGNESIUM	TR1	15300	UG/L		19	
MOUND R1-E	6/14/00	MANGANESE	TR1	56.5	UG/L		0.05	
MOUND R1-E	6/14/00	MANGANESE	TR1	57.3	UG/L		0.05	
MOUND R1-E	6/14/00	MERCURY	TR1	0.1	UG/L	U	0.1	
MOUND R1-E	6/14/00	MERCURY	TR1	0.1	UG/L	U	0.1	
MOUND R1-E	6/14/00	METHYLENE CHLORIDE	TR1	0.3	UG/L	BJ	1	
MOUND R1-E	6/14/00	MOLYBDENUM	TR1	17.2	UG/L	B	0.28	
MOUND R1-E	6/14/00	MOLYBDENUM	TR1	17.4	UG/L	B	0.28	
MOUND R1-E	6/14/00	NAPHTHALENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	n-BUTYLBENZENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	NICKEL	TR1	0.35	UG/L	U	0.35	
MOUND R1-E	6/14/00	NICKEL	TR1	0.64	UG/L	B	0.35	
MOUND R1-E	6/14/00	NITRATE/NITRITE	TR1	0.05	MG/L	U	0.05	
MOUND R1-E	6/14/00	n-PROPYLBENZENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	o-CHLOROTOLUENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	p-CHLOROTOLUENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	POTASSIUM	TR1	1530	UG/L	B	4.6	
MOUND R1-E	6/14/00	POTASSIUM	TR1	1580	UG/L	B	4.6	
MOUND R1-E	6/14/00	PROPANE, 1,2-DIBROMO-3-CHLORO-	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	sec-BUTYLBENZENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	SELENIUM	TR1	1.1	UG/L	U	1.1	
MOUND R1-E	6/14/00	SELENIUM	TR1	1.1	UG/L	U	1.1	
MOUND R1-E	6/14/00	SILVER	TR1	0.27	UG/L	B	0.12	
MOUND R1-E	6/14/00	SILVER	TR1	0.37	UG/L	B	0.12	
MOUND R1-E	6/14/00	SODIUM	TR1	78800	UG/L		32.1	
MOUND R1-E	6/14/00	SODIUM	TR1	78100	UG/L		32.1	
MOUND R1-E	6/14/00	STRONTIUM	TR1	6	UG/L	B	0.02	
MOUND R1-E	6/14/00	STRONTIUM	TR1	6	UG/L	B	0.02	
MOUND R1-E	6/14/00	STYRENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	SULFATE	TR1	1	MG/L	U	1	
MOUND R1-E	6/14/00	tert-BUTYLBENZENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	TETRACHLOROETHENE	TR1	0.1	UG/L	J	1	
MOUND R1-E	6/14/00	THALLIUM	TR1	0.95	UG/L	U	0.95	
MOUND R1-E	6/14/00	THALLIUM	TR1	0.95	UG/L	U	0.95	
MOUND R1-E	6/14/00	TIN	TR1	0.85	UG/L	U	0.85	
MOUND R1-E	6/14/00	TIN	TR1	0.85	UG/L	U	0.85	
MOUND R1-E	6/14/00	TOLUENE	TR1	0.1	UG/L	J	1	
MOUND R1-E	6/14/00	TOTAL XYLENES	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	trans-1,2-DICHLOROETHENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	trans-1,3-DICHLOROPROPENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	TRICHLOROETHENE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	TRICHLOROFLUOROMETHANE	TR1	1	UG/L	U	1	
MOUND R1-E	6/14/00	URANIUM-233,-234	TR1	0.00148	PC/L	U	0.0888	0.046
MOUND R1-E	6/14/00	URANIUM-235	TR1	0.00884	PC/L	U	0.0568	0.044
MOUND R1-E	6/14/00	URANIUM-238	TR1	-0.0241	PC/L	U	0.07	0.0231
MOUND R1-E	6/14/00	VANADIUM	TR1	0.18	UG/L	U	0.18	
MOUND R1-E	6/14/00	VANADIUM	TR1	0.2	UG/L	B	0.18	
MOUND R1-E	6/14/00	VINYL CHLORIDE	TR1	0.1	UG/L	J	1	
MOUND R1-E	6/14/00	ZINC	TR1	2.9	UG/L	B	0.18	
MOUND R1-E	6/14/00	ZINC	TR1	2.3	UG/L	B	0.18	
MOUND R2-E	6/14/00	1,1,1,2-TETRACHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,1,1-TRICHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,1,2,2-TETRACHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,1,2-TRICHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,1-DICHLOROETHANE	TR1	1	UG/L		1	
MOUND R2-E	6/14/00	1,1-DICHLOROETHENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,1-DICHLOROPROPENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,2,3-TRICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,2,3-TRICHLOROPROPANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,2,4-TRICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,2-DIBROMOETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,2-DICHLOROBENZENE	TR1	1	UG/L	U	1	

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Appendix A - Mound Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit	Error
MOUND R2-E	6/14/00	1,2-DICHLOROETHANE	TR1	0.4	UG/L	J	1	
MOUND R2-E	6/14/00	1,2-DICHLOROPROPANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,3-DICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,3-DICHLOROPROPANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,4-DICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	2,2-DICHLOROPROPANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	4-ISOPROPYLTOLUENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	BENZENE	TR1	0.2	UG/L	J	1	
MOUND R2-E	6/14/00	BENZENE, 1,2,4-TRIMETHYL	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	BENZENE, 1,3,5-TRIMETHYL-	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	BROMOBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	BROMOCHLOROMETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	BROMODICHLOROMETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	BROMOFORM	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	BROMOMETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	CARBON TETRACHLORIDE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	CHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	CHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	CHLOROFORM	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	CHLOROMETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	cis-1,2-DICHLOROETHENE	TR1	1	UG/L		1	
MOUND R2-E	6/14/00	cis-1,3-DICHLOROPROPENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	DIBROMOCHLOROMETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	DIBROMOMETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	DICHLORODIFLUOROMETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	ETHYLBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	HEXACHLOROBTADIENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	ISOPROPYLBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	METHYLENE CHLORIDE	TR1	0.2	UG/L	BJ	1	
MOUND R2-E	6/14/00	NAPHTHALENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	n-BUTYLBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	n-PROPYLBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	o-CHLOROTOLUENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	p-CHLOROTOLUENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	PROPANE, 1,2-DIBROMO-3-CHLORO-	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	sec-BUTYLBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	STYRENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	tert-BUTYLBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	TETRACHLOROETHENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	TOLUENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	TOTAL XYLENES	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	trans-1,2-DICHLOROETHENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	trans-1,3-DICHLOROPROPENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	TRICHLOROETHENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	TRICHLOROFUOROMETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	VINYL CHLORIDE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,1,1,2-TETRACHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,1,1-TRICHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,1,2,2-TETRACHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,1,2-TRICHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,1-DICHLOROETHANE	TR1	1	UG/L		1	
MOUND R2-E	6/14/00	1,1-DICHLOROETHENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,1-DICHLOROPROPENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,2,3-TRICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,2,3-TRICHLOROPROPANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,2,4-TRICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,2-DIBROMOETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,2-DICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,2-DICHLOROETHANE	TR1	0.4	UG/L	J	1	
MOUND R2-E	6/14/00	1,2-DICHLOROPROPANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,3-DICHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,3-DICHLOROPROPANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	1,4-DICHLOROBENZENE	TR1	1	UG/L	U	1	

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Appendix A - Mound Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit	Error
MOUND R2-E	6/14/00	2,2-DICHLOROPROPANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	4-ISOPROPYLTOLUENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	BENZENE	TR1	0.2	UG/L	J	1	
MOUND R2-E	6/14/00	BENZENE, 1,2,4-TRIMETHYL	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	BENZENE, 1,3,5-TRIMETHYL-	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	BROMOBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	BROMOCHLOROMETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	BROMODICHLOROMETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	BROMOFORM	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	BROMOMETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	CARBON TETRACHLORIDE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	CHLOROBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	CHLOROETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	CHLOROFORM	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	CHLOROMETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	cis-1,2-DICHLOROETHENE	TR1	2	UG/L		1	
MOUND R2-E	6/14/00	cis-1,3-DICHLOROPROPENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	DIBROMOCHLOROMETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	DIBROMOMETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	DICHLORODIFLUOROMETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	ETHYLBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	HEXACHLOROBUTADIENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	ISOPROPYLBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	METHYLENE CHLORIDE	TR1	0.2	UG/L	JB	1	
MOUND R2-E	6/14/00	NAPHTHALENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	n-BUTYLBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	n-PROPYLBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	o-CHLOROTOLUENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	p-CHLOROTOLUENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	PROPANE, 1,2-DIBROMO-3-CHLORO-	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	sec-BUTYLBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	STYRENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	tert-BUTYLBENZENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	TETRACHLOROETHENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	TOLUENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	TOTAL XYLENES	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	trans-1,2-DICHLOROETHENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	trans-1,3-DICHLOROPROPENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	TRICHLOROETHENE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	TRICHLOROFLUOROMETHANE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	VINYL CHLORIDE	TR1	1	UG/L	U	1	
MOUND R2-E	6/14/00	ALUMINUM	TR1	22.4	UG/L		4.7	
MOUND R2-E	6/14/00	ALUMINUM	TR1	32.1	UG/L		4.7	
MOUND R2-E	6/14/00	AMERICIUM-241	TR1	0.0192	PCI/L	J	0.0176	0.0148
MOUND R2-E	6/14/00	ANTIMONY	TR1	0.55	UG/L	U	0.55	
MOUND R2-E	6/14/00	ANTIMONY	TR1	0.7	UG/L	B	0.55	
MOUND R2-E	6/14/00	ARSENIC	TR1	0.8	UG/L	U	0.8	
MOUND R2-E	6/14/00	ARSENIC	TR1	0.8	UG/L	U	0.8	
MOUND R2-E	6/14/00	BARIUM	TR1	8.2	UG/L	B	0.02	
MOUND R2-E	6/14/00	BARIUM	TR1	9.2	UG/L	B	0.02	
MOUND R2-E	6/14/00	BERYLLIUM	TR1	0.08	UG/L	B	0.02	
MOUND R2-E	6/14/00	BERYLLIUM	TR1	0.04	UG/L	B	0.02	
MOUND R2-E	6/14/00	BICARBONATE AS CaCO3	TR1	60	MG/L		5	
MOUND R2-E	6/14/00	BROMIDE	TR1	0.4	MG/L		0.1	
MOUND R2-E	6/14/00	CADMIUM	TR1	0.1	UG/L	U	0.1	
MOUND R2-E	6/14/00	CADMIUM	TR1	0.1	UG/L	U	0.1	
MOUND R2-E	6/14/00	CALCIUM	TR1	2060	UG/L	B	3	
MOUND R2-E	6/14/00	CALCIUM	TR1	2390	UG/L	B	3	
MOUND R2-E	6/14/00	CHLORIDE	TR1	75	MG/L		0.5	
MOUND R2-E	6/14/00	CHROMIUM	TR1	0.47	UG/L	B	0.15	
MOUND R2-E	6/14/00	CHROMIUM	TR1	0.22	UG/L	B	0.15	
MOUND R2-E	6/14/00	COBALT	TR1	0.18	UG/L	U	0.18	
MOUND R2-E	6/14/00	COBALT	TR1	0.18	UG/L	U	0.18	

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Appendix A - Mound Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit	Error
MOUND R2-E	6/14/00	COPPER	TR1	0.42	UG/L	B	0.2	
MOUND R2-E	6/14/00	COPPER	TR1	0.2	UG/L	U	0.2	
MOUND R2-E	6/14/00	FLUORIDE	TR1	0.5	MG/L		0.05	
MOUND R2-E	6/14/00	GROSS ALPHA	TR1	0.00824	PCI/L	U	1.08	0.463
MOUND R2-E	6/14/00	GROSS BETA	TR1	0.0716	PCI/L	U	1.85	0.872
MOUND R2-E	6/14/00	IRON	TR1	65.5	UG/L	B	2.7	
MOUND R2-E	6/14/00	IRON	TR1	16	UG/L	B	2.7	
MOUND R2-E	6/14/00	LEAD	TR1	0.58	UG/L	U	0.58	
MOUND R2-E	6/14/00	LEAD	TR1	0.58	UG/L	U	0.58	
MOUND R2-E	6/14/00	LITHIUM	TR1	21.4	UG/L	B	0.05	
MOUND R2-E	6/14/00	LITHIUM	TR1	25.5	UG/L	B	0.05	
MOUND R2-E	6/14/00	MAGNESIUM	TR1	12200	UG/L		1.9	
MOUND R2-E	6/14/00	MAGNESIUM	TR1	14500	UG/L		1.9	
MOUND R2-E	6/14/00	MANGANESE	TR1	79.1	UG/L		0.05	
MOUND R2-E	6/14/00	MANGANESE	TR1	60.6	UG/L		0.05	
MOUND R2-E	6/14/00	MERCURY	TR1	0.1	UG/L	U	0.1	
MOUND R2-E	6/14/00	MERCURY	TR1	0.1	UG/L	U	0.1	
MOUND R2-E	6/14/00	MOLYBDENUM	TR1	14.4	UG/L	B	0.28	
MOUND R2-E	6/14/00	MOLYBDENUM	TR1	17.8	UG/L	B	0.28	
MOUND R2-E	6/14/00	NICKEL	TR1	0.65	UG/L	B	0.35	
MOUND R2-E	6/14/00	NICKEL	TR1	0.35	UG/L	U	0.35	
MOUND R2-E	6/14/00	NITRATE/NITRITE	TR1	0.05	MG/L	U	0.05	
MOUND R2-E	6/14/00	PLUTONIUM-239/240	TR1	0.0027	PCI/L	U	0.00731	0.00529
MOUND R2-E	6/14/00	POTASSIUM	TR1	1270	UG/L	B	4.6	
MOUND R2-E	6/14/00	POTASSIUM	TR1	1520	UG/L	B	4.6	
MOUND R2-E	6/14/00	SELENIUM	TR1	1.1	UG/L	U	1.1	
MOUND R2-E	6/14/00	SELENIUM	TR1	1.1	UG/L	U	1.1	
MOUND R2-E	6/14/00	SILVER	TR1	0.26	UG/L	B	0.12	
MOUND R2-E	6/14/00	SILVER	TR1	0.39	UG/L	B	0.12	
MOUND R2-E	6/14/00	SODIUM	TR1	66900	UG/L		32.1	
MOUND R2-E	6/14/00	SODIUM	TR1	78800	UG/L		32.1	
MOUND R2-E	6/14/00	STRONTIUM	TR1	5.2	UG/L	B	0.02	
MOUND R2-E	6/14/00	STRONTIUM	TR1	5.8	UG/L	B	0.02	
MOUND R2-E	6/14/00	SULFATE	TR1	1	MG/L	U	1	
MOUND R2-E	6/14/00	THALLIUM	TR1	0.95	UG/L	U	0.95	
MOUND R2-E	6/14/00	THALLIUM	TR1	0.95	UG/L	U	0.95	
MOUND R2-E	6/14/00	TIN	TR1	0.85	UG/L	U	0.85	
MOUND R2-E	6/14/00	TIN	TR1	0.85	UG/L	U	0.85	
MOUND R2-E	6/14/00	URANIUM-233,-234	TR1	0.051	PCI/L	U	0.0927	0.0964
MOUND R2-E	6/14/00	URANIUM-235	TR1	0.00133	PCI/L	U	0.0594	0.0913
MOUND R2-E	6/14/00	URANIUM-238	TR1	-0.0401	PCI/L	U	0.073	0.0582
MOUND R2-E	6/14/00	VANADIUM	TR1	0.18	UG/L	U	0.18	
MOUND R2-E	6/14/00	VANADIUM	TR1	0.18	UG/L	U	0.18	
MOUND R2-E	6/14/00	ZINC	TR1	4.8	UG/L	B	0.18	
MOUND R2-E	6/14/00	ZINC	TR1	2.8	UG/L	B	0.18	
MOUND R1-0	6/14/00	1,1,1,2-TETRACHLOROETHANE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	1,1,1-TRICHLOROETHANE	TR1	8	UG/L		10	
MOUND R1-0	6/14/00	1,1,2,2-TETRACHLOROETHANE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	1,1,2-TRICHLOROETHANE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	1,1-DICHLOROETHANE	TR1	2	UG/L	J	10	
MOUND R1-0	6/14/00	1,1-DICHLOROETHANE	TR1	10	UG/L		10	
MOUND R1-0	6/14/00	1,1-DICHLOROPROPENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	1,2,3-TRICHLOROBENZENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	1,2,3-TRICHLOROPROPANE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	1,2,4-TRICHLOROBENZENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	1,2-DIBROMOETHANE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	1,2-DICHLOROBENZENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	1,2-DICHLOROETHANE	TR1	0.9	UG/L	J	10	
MOUND R1-0	6/14/00	1,2-DICHLOROPROPANE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	1,3-DICHLOROBENZENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	1,3-DICHLOROPROPANE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	1,4-DICHLOROBENZENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	2,2-DICHLOROPROPANE	TR1	10	UG/L	U	10	

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Appendix A - Mound Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit	Error
MOUND R1-0	6/14/00	4-ISOPROPYLTOLUENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	ALUMINUM	TR1	25 2	UG/L		4 7	
MOUND R1-0	6/14/00	ALUMINUM	TR2	25 9	UG/L		4 7	
MOUND R1-0	6/14/00	ALUMINUM	TR1	23 6	UG/L		4 7	
MOUND R1-0	6/14/00	AMERICIUM-241	TR1	0 0165	PCI/L	J	0 00637	0 0122
MOUND R1-0	6/14/00	ANTIMONY	TR1	0 55	UG/L	U	0 55	
MOUND R1-0	6/14/00	ANTIMONY	TR1	0 55	UG/L	U	0 55	
MOUND R1-0	6/14/00	ANTIMONY	TR2	0 55	UG/L	U	0 55	
MOUND R1-0	6/14/00	ARSENIC	TR1	0 8	UG/L	U	0 8	
MOUND R1-0	6/14/00	ARSENIC	TR1	0 8	UG/L	U	0 8	
MOUND R1-0	6/14/00	ARSENIC	TR2	0 8	UG/L	U	0 8	
MOUND R1-0	6/14/00	BARIUM	TR1	142	UG/L		0 02	
MOUND R1-0	6/14/00	BARIUM	TR2	130	UG/L		0 02	
MOUND R1-0	6/14/00	BARIUM	TR1	135	UG/L		0 02	
MOUND R1-0	6/14/00	BENZENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	BENZENE 1,2,4-TRIMETHYL	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	BENZENE, 1,3,5-TRIMETHYL-	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	BERYLLIUM	TR1	0 07	UG/L	B	0 02	
MOUND R1-0	6/14/00	BERYLLIUM	TR1	0 05	UG/L	B	0 02	
MOUND R1-0	6/14/00	BERYLLIUM	TR2	0 05	UG/L	B	0 02	
MOUND R1-0	6/14/00	BICARBONATE AS CaCO3	TR1	380	MG/L		5	
MOUND R1-0	6/14/00	BROMIDE	TR1	0 3	MG/L		0 1	
MOUND R1-0	6/14/00	BROMOBENZENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	BROMOCHLOROMETHANE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	BROMODICHLOROMETHANE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	BROMOFORM	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	BROMOMETHANE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	CADMIUM	TR1	0 1	UG/L	U	0 1	
MOUND R1-0	6/14/00	CADMIUM	TR2	0 1	UG/L	U	0 1	
MOUND R1-0	6/14/00	CADMIUM	TR1	0 1	UG/L	U	0 1	
MOUND R1-0	6/14/00	CALCIUM	TR1	113000	UG/L		3	
MOUND R1-0	6/14/00	CALCIUM	TR1	108000	UG/L		3	
MOUND R1-0	6/14/00	CALCIUM	TR2	102550	UG/L		3	
MOUND R1-0	6/14/00	CARBON TETRACHLORIDE	TR1	130	UG/L		10	
MOUND R1-0	6/14/00	CHLORIDE	TR1	76	MG/L		0 5	
MOUND R1-0	6/14/00	CHLOROETHANE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	CHLOROETHANE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	CHLOROFORM	TR1	24	UG/L		10	
MOUND R1-0	6/14/00	CHLOROMETHANE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	CHROMIUM	TR1	0 25	UG/L	B	0 15	
MOUND R1-0	6/14/00	CHROMIUM	TR2	0 15	UG/L	U	0 15	
MOUND R1-0	6/14/00	CHROMIUM	TR1	0 15	UG/L	U	0 15	
MOUND R1-0	6/14/00	cis-1,2-DICHLOROETHENE	TR1	42	UG/L		10	
MOUND R1-0	6/14/00	cis-1,3-DICHLOROPROPENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	COBALT	TR1	0 18	UG/L	U	0 18	
MOUND R1-0	6/14/00	COBALT	TR1	0 19	UG/L	B	0 18	
MOUND R1-0	6/14/00	COBALT	TR2	0 18	UG/L	U	0 18	
MOUND R1-0	6/14/00	COPPER	TR1	1 1	UG/L	B	0 2	
MOUND R1-0	6/14/00	COPPER	TR1	1 2	UG/L	B	0 2	
MOUND R1-0	6/14/00	COPPER	TR2	1 1	UG/L	B	0 2	
MOUND R1-0	6/14/00	DIBROMOCHLOROMETHANE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	DIBROMOMETHANE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	DICHLORODIFLUOROMETHANE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	ETHYLBENZENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	FLUORIDE	TR1	1	MG/L		0 05	
MOUND R1-0	6/14/00	GROSS ALPHA	TR1	8 32	PCI/L		0 899	1 1
MOUND R1-0	6/14/00	GROSS ALPHA	LD1	6 18	PCI/L		1 85	1 62
MOUND R1-0	6/14/00	GROSS BETA	TR1	2 64	PCI/L	J	1 27	0 816
MOUND R1-0	6/14/00	GROSS BETA	LD1	3 4	PCI/L	J	1 85	1 09
MOUND R1-0	6/14/00	HEXACHLOROBUTADIENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	IRON	TR1	28 6	UG/L	B	2 7	
MOUND R1-0	6/14/00	IRON	TR1	12 8	UG/L	B	2 7	
MOUND R1-0	6/14/00	IRON	TR2	28 9	UG/L	B	2 7	

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Appendix A - Mound Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit	Error
MOUND R1-0	6/14/00	ISOPROPYLBENZENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	LEAD	TR1	0 58	UG/L	U	0 58	
MOUND R1-0	6/14/00	LEAD	TR1	0 61	UG/L	B	0 58	
MOUND R1-0	6/14/00	LEAD	TR2	0 58	UG/L	U	0 58	
MOUND R1-0	6/14/00	LITHIUM	TR2	27 7	UG/L	B	0 05	
MOUND R1-0	6/14/00	LITHIUM	TR1	30 9	UG/L	B	0 05	
MOUND R1-0	6/14/00	MAGNESIUM	TR1	35000	UG/L		1 9	
MOUND R1-0	6/14/00	MAGNESIUM	TR1	32900	UG/L		1 9	
MOUND R1-0	6/14/00	MAGNESIUM	TR2	31792	UG/L		1 9	
MOUND R1-0	6/14/00	MANGANESE	TR1	111	UG/L		0 05	
MOUND R1-0	6/14/00	MANGANESE	TR1	104	UG/L		0 05	
MOUND R1-0	6/14/00	MANGANESE	TR2	101	UG/L		0 05	
MOUND R1-0	6/14/00	MERCURY	TR1	0 1	UG/L	U	0 1	
MOUND R1-0	6/14/00	MERCURY	TR1	0 1	UG/L	U	0 1	
MOUND R1-0	6/14/00	MERCURY	TR2	0 1	UG/L	U	0 1	
MOUND R1-0	6/14/00	METHYLENE CHLORIDE	TR1	3	UG/L	BJ	10	
MOUND R1-0	6/14/00	MOLYBDENUM	TR1	3	UG/L	B	0 28	
MOUND R1-0	6/14/00	MOLYBDENUM	TR1	3 2	UG/L	B	0 28	
MOUND R1-0	6/14/00	MOLYBDENUM	TR2	2 8	UG/L	B	0 28	
MOUND R1-0	6/14/00	NAPHTHALENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	n-BUTYLBENZENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	NICKEL	TR1	2 6	UG/L	B	0 35	
MOUND R1-0	6/14/00	NICKEL	TR1	1 5	UG/L	B	0 35	
MOUND R1-0	6/14/00	NICKEL	TR2	1 3	UG/L	B	0 35	
MOUND R1-0	6/14/00	NITRATE/NITRITE	TR1	2 9	MG/L		0 05	
MOUND R1-0	6/14/00	n-PROPYLBENZENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	o-CHLOROTOLUENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	p-CHLOROTOLUENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	PLUTONIUM-239/240	TR1	0 00234	PCI/L	U	0 0172	0 00793
MOUND R1-0	6/14/00	POTASSIUM	TR2	1464	UG/L	B	4 6	
MOUND R1-0	6/14/00	POTASSIUM	TR1	1500	UG/L	B	4 6	
MOUND R1-0	6/14/00	POTASSIUM	TR1	1620	UG/L	B	4 6	
MOUND R1-0	6/14/00	PROPANE, 1,2-DIBROMO-3-CHLORO-	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	sec-BUTYLBENZENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	SELENIUM	TR2	13 4	UG/L		1 1	
MOUND R1-0	6/14/00	SELENIUM	TR1	13 9	UG/L		1 1	
MOUND R1-0	6/14/00	SELENIUM	TR1	14 5	UG/L		1 1	
MOUND R1-0	6/14/00	SILVER	TR2	0 12	UG/L	U	0 12	
MOUND R1-0	6/14/00	SILVER	TR1	0 12	UG/L	U	0 12	
MOUND R1-0	6/14/00	SILVER	TR1	0 25	UG/L	B	0 12	
MOUND R1-0	6/14/00	SODIUM	TR2	73036	UG/L		32 1	
MOUND R1-0	6/14/00	SODIUM	TR1	75200	UG/L		32 1	
MOUND R1-0	6/14/00	SODIUM	TR1	79000	UG/L		32 1	
MOUND R1-0	6/14/00	STRONTIUM	TR2	834	UG/L		0 02	
MOUND R1-0	6/14/00	STRONTIUM	TR1	865	UG/L		0 02	
MOUND R1-0	6/14/00	STRONTIUM	TR1	920	UG/L		0 02	
MOUND R1-0	6/14/00	STYRENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	SULFATE	TR1	73	MG/L		1	
MOUND R1-0	6/14/00	tert-BUTYLBENZENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	TETRACHLOROETHENE	TR1	130	UG/L		10	
MOUND R1-0	6/14/00	THALLIUM	TR2	0 95	UG/L	U	0 95	
MOUND R1-0	6/14/00	THALLIUM	TR1	0 95	UG/L	U	0 95	
MOUND R1-0	6/14/00	THALLIUM	TR1	0 95	UG/L	U	0 95	
MOUND R1-0	6/14/00	TIN	TR1	0 85	UG/L	U	0 85	
MOUND R1-0	6/14/00	TIN	TR2	0 85	UG/L	U	0 85	
MOUND R1-0	6/14/00	TIN	TR1	0 85	UG/L	U	0 85	
MOUND R1-0	6/14/00	TOLUENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	TOTAL XYLENES	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	trans-1,2-DICHLOROETHENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	trans-1,3-DICHLOROPROPENE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	TRICHLOROETHENE	TR1	150	UG/L		10	
MOUND R1-0	6/14/00	TRICHLOROFLUOROMETHANE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	URANIUM-233,-234	TR1	5 42	PCI/L		0 067	0 398

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Appendix A - Mound Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit	Error
MOUND R1-0	6/14/00	URANIUM-235	TR1	0 255	PCI/L	J	0 0421	0 0871
MOUND R1-0	6/14/00	URANIUM-238	TR1	4 09	PCI/L		0 0557	0 345
MOUND R1-0	6/14/00	VANADIUM	TR2	0 66	UG/L	B	0 18	
MOUND R1-0	6/14/00	VANADIUM	TR1	0 73	UG/L	B	0 18	
MOUND R1-0	6/14/00	VANADIUM	TR1	0 87	UG/L	B	0 18	
MOUND R1-0	6/14/00	VINYL CHLORIDE	TR1	10	UG/L	U	10	
MOUND R1-0	6/14/00	ZINC	TR1	9 2	UG/L	B	0 18	
MOUND R1-0	6/14/00	ZINC	TR1	8 2	UG/L	B	0 18	
MOUND R1-0	6/14/00	ZINC	TR2	7 8	UG/L	B	0 18	
MOUND R1-0	7/19/00	1,1,1,2-TETRACHLOROETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,1,1,2-TETRACHLOROETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,1,1-TRICHLOROETHANE	TR1	5	UG/L	J	5	
MOUND R1-0	7/19/00	1,1,1-TRICHLOROETHANE	TR1	4	UG/L	J	5	
MOUND R1-0	7/19/00	1,1,2,2-TETRACHLOROETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,1,2,2-TETRACHLOROETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,1,2-TRICHLOROETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,1,2-TRICHLOROETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,1-DICHLOROETHANE	TR1	2	UG/L	J	5	
MOUND R1-0	7/19/00	1,1-DICHLOROETHANE	TR1	1	UG/L	J	5	
MOUND R1-0	7/19/00	1,1-DICHLOROETHENE	TR1	6	UG/L		5	
MOUND R1-0	7/19/00	1,1-DICHLOROETHENE	TR1	6	UG/L		5	
MOUND R1-0	7/19/00	1,1-DICHLOROPROPENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,1-DICHLOROPROPENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,1-DICHLOROPROPENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,2,3-TRICHLOROBENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,2,3-TRICHLOROBENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,2,3-TRICHLOROPROPANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,2,3-TRICHLOROPROPANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,2,4-TRICHLOROBENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,2,4-TRICHLOROBENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,2-DIBROMOETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,2-DIBROMOETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,2-DIBROMOETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,2-DICHLOROETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,2-DICHLOROETHANE	TR1	0 6	UG/L	J	5	
MOUND R1-0	7/19/00	1,2-DICHLOROETHANE	TR1	0 5	UG/L	J	5	
MOUND R1-0	7/19/00	1,2-DICHLOROPROPANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,2-DICHLOROPROPANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,2-DICHLOROPROPANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,3-DICHLOROETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,3-DICHLOROETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,3-DICHLOROPROPANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,3-DICHLOROPROPANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,3-DICHLOROPROPANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,4-DICHLOROETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	1,4-DICHLOROETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	2,2-DICHLOROPROPANE	TR1	45	UG/L		5	
MOUND R1-0	7/19/00	2,2-DICHLOROPROPANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	2,2-DICHLOROPROPANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	4-ISOPROPYLTOLUENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	4-ISOPROPYLTOLUENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	ALUMINUM	TR1	20 3	UG/L		4 4	
MOUND R1-0	7/19/00	ALUMINUM	TR1	379	UG/L		4 4	
MOUND R1-0	7/19/00	ALUMINUM	TR1	20 7	UG/L		4 4	
MOUND R1-0	7/19/00	ALUMINUM	TR1	445	UG/L		4 4	
MOUND R1-0	7/19/00	ALUMINUM	TR2	373	UG/L		4 4	
MOUND R1-0	7/19/00	AMERICIUM-241	TR1	0 00853	PCI/L	U	0 0157	0 0102
MOUND R1-0	7/19/00	AMERICIUM-241	TR1	0 0107	PCI/L	U	0 0199	0 0126
MOUND R1-0	7/19/00	ANTIMONY	TR1	0 68	UG/L	B	0 52	
MOUND R1-0	7/19/00	ANTIMONY	TR1	1 1	UG/L	B	0 52	
MOUND R1-0	7/19/00	ANTIMONY	TR2	0 62	UG/L	B	0 52	
MOUND R1-0	7/19/00	ANTIMONY	TR1	0 78	UG/L	B	0 52	
MOUND R1-0	7/19/00	ANTIMONY	TR1	1	UG/L	B	0 52	
MOUND R1-0	7/19/00	ARSENIC	TR1	0 85	UG/L	U	0 85	
MOUND R1-0	7/19/00	ARSENIC	TR1	0 85	UG/L	U	0 85	
MOUND R1-0	7/19/00	ARSENIC	TR1	0 85	UG/L	U	0 85	
MOUND R1-0	7/19/00	ARSENIC	TR2	0 85	UG/L	U	0 85	

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Appendix A - Mound Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit	Error
MOUND R1-0	7/19/00	ARSENIC	TR1	0 85	UG/L	U	0 85	
MOUND R1-0	7/19/00	BARIUM	TR1	85 8	UG/L	B	0 05	
MOUND R1-0	7/19/00	BARIUM	TR1	76 2	UG/L	B	0 05	
MOUND R1-0	7/19/00	BARIUM	TR2	82 7	UG/L	B	0 05	
MOUND R1-0	7/19/00	BARIUM	TR1	80 5	UG/L	B	0 05	
MOUND R1-0	7/19/00	BARIUM	TR1	85	UG/L	B	0 05	
MOUND R1-0	7/19/00	BENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	BENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	BENZENE, 1,2,4-TRIMETHYL	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	BENZENE, 1,2,4-TRIMETHYL	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	BENZENE, 1,3,5-TRIMETHYL-	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	BENZENE, 1,3,5-TRIMETHYL-	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	BERYLLIUM	TR1	0 05	UG/L	B	0 02	
MOUND R1-0	7/19/00	BERYLLIUM	TR1	0 05	UG/L	B	0 02	
MOUND R1-0	7/19/00	BERYLLIUM	TR2	0 05	UG/L	B	0 02	
MOUND R1-0	7/19/00	BERYLLIUM	TR1	0 05	UG/L	B	0 02	
MOUND R1-0	7/19/00	BERYLLIUM	TR1	0 05	UG/L	B	0 02	
MOUND R1-0	7/19/00	BICARBONATE AS CaCO3	TR1	280	MG/L		5	
MOUND R1-0	7/19/00	BICARBONATE AS CaCO3	TR1	280	MG/L		5	
MOUND R1-0	7/19/00	BROMIDE	TR1	0 2	MG/L		0 1	
MOUND R1-0	7/19/00	BROMIDE	TR1	0 2	MG/L		0 1	
MOUND R1-0	7/19/00	BROMOBENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	BROMOBENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	BROMOCHLOROMETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	BROMOCHLOROMETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	BROMODICHLOROMETHANE	TR1	4	UG/L	JD	5	
MOUND R1-0	7/19/00	BROMODICHLOROMETHANE	TR1	4	UG/L	J	5	
MOUND R1-0	7/19/00	BROMOFORM	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	BROMOFORM	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	BROMOMETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	BROMOMETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	CADMIUM	TR1	0 08	UG/L	U	0 08	
MOUND R1-0	7/19/00	CADMIUM	TR1	0 08	UG/L	U	0 08	
MOUND R1-0	7/19/00	CADMIUM	TR2	0 08	UG/L	U	0 08	
MOUND R1-0	7/19/00	CADMIUM	TR1	0 08	UG/L	U	0 08	
MOUND R1-0	7/19/00	CADMIUM	TR1	0 08	UG/L	U	0 08	
MOUND R1-0	7/19/00	CALCIUM	TR1	62700	UG/L		2 2	
MOUND R1-0	7/19/00	CALCIUM	TR1	66600	UG/L		2 2	
MOUND R1-0	7/19/00	CALCIUM	TR2	63945	UG/L		2 2	
MOUND R1-0	7/19/00	CALCIUM	TR1	65900	UG/L		2 2	
MOUND R1-0	7/19/00	CALCIUM	TR1	65200	UG/L		2 2	
MOUND R1-0	7/19/00	CARBON TETRACHLORIDE	TR1	69	UG/L		5	
MOUND R1-0	7/19/00	CARBON TETRACHLORIDE	TR1	63	UG/L		5	
MOUND R1-0	7/19/00	CHLORIDE	TR1	46	MG/L		0 5	
MOUND R1-0	7/19/00	CHLORIDE	TR1	41	MG/L		0 5	
MOUND R1-0	7/19/00	CHLOROBENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	CHLOROBENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	CHLOROETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	CHLOROETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	CHLOROFORM	TR1	13	UG/L		5	
MOUND R1-0	7/19/00	CHLOROFORM	TR1	12	UG/L		5	
MOUND R1-0	7/19/00	CHLOROMETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	CHLOROMETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	CHROMIUM	TR1	0 23	UG/L	B	0 22	
MOUND R1-0	7/19/00	CHROMIUM	TR1	0 48	UG/L	B	0 22	
MOUND R1-0	7/19/00	CHROMIUM	TR2	0 52	UG/L	B	0 22	
MOUND R1-0	7/19/00	CHROMIUM	TR1	0 22	UG/L	U	0 22	
MOUND R1-0	7/19/00	CHROMIUM	TR1	1 9	UG/L	B	0 22	
MOUND R1-0	7/19/00	cis-1,2-DICHLOROETHENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	cis-1,2-DICHLOROETHENE	TR1	42	UG/L		5	
MOUND R1-0	7/19/00	cis-1,3-DICHLOROPROPENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	cis-1,3-DICHLOROPROPENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	COBALT	TR1	0 22	UG/L	B	0 2	

Appendix A - Mound Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit	Error
MOUND R1-0	7/19/00	COBALT	TR1	0.2	UG/L	U	0.2	
MOUND R1-0	7/19/00	COBALT	TR2	0.2	UG/L	B	0.2	
MOUND R1-0	7/19/00	COBALT	TR1	0.2	UG/L	U	0.2	
MOUND R1-0	7/19/00	COBALT	TR1	0.2	UG/L	U	0.2	
MOUND R1-0	7/19/00	COPPER	TR1	8	UG/L		0.2	
MOUND R1-0	7/19/00	COPPER	TR1	2	UG/L	B	0.2	
MOUND R1-0	7/19/00	COPPER	TR2	1.8	UG/L	B	0.2	
MOUND R1-0	7/19/00	COPPER	TR1	1.5	UG/L	B	0.2	
MOUND R1-0	7/19/00	COPPER	TR1	2	UG/L	B	0.2	
MOUND R1-0	7/19/00	DIBROMOCHLOROMETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	DIBROMOCHLOROMETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	DIBROMOMETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	DIBROMOMETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	DICHLORODIFLUOROMETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	DICHLORODIFLUOROMETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	ETHYLBENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	ETHYLBENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	FLUORIDE	TR1	1.2	MG/L		0.05	
MOUND R1-0	7/19/00	FLUORIDE	TR1	1.2	MG/L		0.05	
MOUND R1-0	7/19/00	GROSS ALPHA	TR1	4.85	PCI/L		1.97	1.5
MOUND R1-0	7/19/00	GROSS ALPHA	LD1	5.15	PCI/L		1.49	1.46
MOUND R1-0	7/19/00	GROSS ALPHA	TR1	4.54	PCI/L		1.57	1.4
MOUND R1-0	7/19/00	GROSS BETA	TR1	2.73	PCI/L	J	1.98	1.1
MOUND R1-0	7/19/00	GROSS BETA	LD1	3.25	PCI/L	J	1.78	1.03
MOUND R1-0	7/19/00	GROSS BETA	TR1	3.04	PCI/L	J	1.81	1.03
MOUND R1-0	7/19/00	HEXACHLOROBTADIENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	HEXACHLOROBTADIENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	IRON	TR1	277	UG/L		13	
MOUND R1-0	7/19/00	IRON	TR1	7.7	UG/L	B	13	
MOUND R1-0	7/19/00	IRON	TR1	7.5	UG/L	B	13	
MOUND R1-0	7/19/00	IRON	TR2	272	UG/L		13	
MOUND R1-0	7/19/00	IRON	TR1	297	UG/L		13	
MOUND R1-0	7/19/00	ISOPROPYLBENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	ISOPROPYLBENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	LEAD	TR1	0.52	UG/L	U	0.52	
MOUND R1-0	7/19/00	LEAD	TR1	0.52	UG/L	U	0.52	
MOUND R1-0	7/19/00	LEAD	TR2	0.52	UG/L	U	0.52	
MOUND R1-0	7/19/00	LEAD	TR1	0.52	UG/L	U	0.52	
MOUND R1-0	7/19/00	LEAD	TR1	0.52	UG/L	U	0.52	
MOUND R1-0	7/19/00	LITHIUM	TR1	22.7	UG/L	B	0.05	
MOUND R1-0	7/19/00	LITHIUM	TR1	25.4	UG/L	B	0.05	
MOUND R1-0	7/19/00	LITHIUM	TR2	24.3	UG/L	B	0.05	
MOUND R1-0	7/19/00	LITHIUM	TR1	24.9	UG/L	B	0.05	
MOUND R1-0	7/19/00	LITHIUM	TR1	24.2	UG/L	B	0.05	
MOUND R1-0	7/19/00	MAGNESIUM	TR1	18900	UG/L		2	
MOUND R1-0	7/19/00	MAGNESIUM	TR1	20400	UG/L		2	
MOUND R1-0	7/19/00	MAGNESIUM	TR2	19623	UG/L		2	
MOUND R1-0	7/19/00	MAGNESIUM	TR1	19900	UG/L		2	
MOUND R1-0	7/19/00	MAGNESIUM	TR1	20100	UG/L		2	
MOUND R1-0	7/19/00	MANGANESE	TR1	110	UG/L		0.05	
MOUND R1-0	7/19/00	MANGANESE	TR1	120	UG/L		0.05	
MOUND R1-0	7/19/00	MANGANESE	TR2	115	UG/L		0.05	
MOUND R1-0	7/19/00	MANGANESE	TR1	116	UG/L		0.05	
MOUND R1-0	7/19/00	MANGANESE	TR1	118	UG/L		0.05	
MOUND R1-0	7/19/00	MERCURY	TR1	0.1	UG/L	U	0.1	
MOUND R1-0	7/19/00	MERCURY	TR1	0.1	UG/L	U	0.1	
MOUND R1-0	7/19/00	MERCURY	TR1	0.1	UG/L	U	0.1	
MOUND R1-0	7/19/00	MERCURY	TR1	0.1	UG/L	U	0.1	
MOUND R1-0	7/19/00	MERCURY	TR2	0.1	UG/L	U	0.1	
MOUND R1-0	7/19/00	METHYLENE CHLORIDE	TR1	4	UG/L	JB	5	
MOUND R1-0	7/19/00	METHYLENE CHLORIDE	TR1	4	UG/L	JB	5	
MOUND R1-0	7/19/00	MOLYBDENUM	TR1	3.6	UG/L	B	0.22	
MOUND R1-0	7/19/00	MOLYBDENUM	TR1	4	UG/L	B	0.22	

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Appendix A - Mound Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit	Error
MOUND R1-0	7/19/00	MOLYBDENUM	TR2	3.8	UG/L	B	0.22	
MOUND R1-0	7/19/00	MOLYBDENUM	TR1	3.9	UG/L	B	0.22	
MOUND R1-0	7/19/00	MOLYBDENUM	TR1	4	UG/L	B	0.22	
MOUND R1-0	7/19/00	NAPHTHALENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	NAPHTHALENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	n-BUTYLBENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	n-BUTYLBENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	NICKEL	TR1	3.7	UG/L	B	0.3	
MOUND R1-0	7/19/00	NICKEL	TR1	1.4	UG/L	B	0.3	
MOUND R1-0	7/19/00	NICKEL	TR2	1.2	UG/L	B	0.3	
MOUND R1-0	7/19/00	NICKEL	TR1	1.3	UG/L	B	0.3	
MOUND R1-0	7/19/00	NICKEL	TR1	1.4	UG/L	B	0.3	
MOUND R1-0	7/19/00	NITRATE/NITRITE	TR1	2.3	MG/L		0.05	
MOUND R1-0	7/19/00	NITRATE/NITRITE	TR1	2	MG/L		0.05	
MOUND R1-0	7/19/00	n-PROPYLBENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	n-PROPYLBENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	o-CHLOROTOLUENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	o-CHLOROTOLUENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	p-CHLOROTOLUENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	p-CHLOROTOLUENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	PLUTONIUM-239/240	TR1	0	PCI/L	U	0.0167	0.00743
MOUND R1-0	7/19/00	PLUTONIUM-239/240	TR1	0.00678	PCI/L	J	0.00459	0.00665
MOUND R1-0	7/19/00	POTASSIUM	TR1	1240	UG/L	B	7.5	
MOUND R1-0	7/19/00	POTASSIUM	TR1	1490	UG/L	B	7.5	
MOUND R1-0	7/19/00	POTASSIUM	TR2	1434	UG/L	B	7.5	
MOUND R1-0	7/19/00	POTASSIUM	TR1	1480	UG/L	B	7.5	
MOUND R1-0	7/19/00	POTASSIUM	TR1	1320	UG/L	B	7.5	
MOUND R1-0	7/19/00	PROPANE, 1,2-DIBROMO-3-CHLORO-	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	PROPANE, 1,2-DIBROMO-3-CHLORO-	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	sec-BUTYLBENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	sec-BUTYLBENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	SELENIUM	TR1	4.1	UG/L		1.1	
MOUND R1-0	7/19/00	SELENIUM	TR1	5.1	UG/L		1.1	
MOUND R1-0	7/19/00	SELENIUM	TR2	4.5	UG/L		1.1	
MOUND R1-0	7/19/00	SELENIUM	TR1	5	UG/L		1.1	
MOUND R1-0	7/19/00	SELENIUM	TR1	4.2	UG/L		1.1	
MOUND R1-0	7/19/00	SILVER	TR1	0.28	UG/L	U	0.28	
MOUND R1-0	7/19/00	SILVER	TR1	0.28	UG/L	U	0.28	
MOUND R1-0	7/19/00	SILVER	TR2	0.28	UG/L	U	0.28	
MOUND R1-0	7/19/00	SILVER	TR1	0.28	UG/L	U	0.28	
MOUND R1-0	7/19/00	SILVER	TR1	0.28	UG/L	U	0.28	
MOUND R1-0	7/19/00	SODIUM	TR1	56400	UG/L		6.8	
MOUND R1-0	7/19/00	SODIUM	TR1	52500	UG/L		6.8	
MOUND R1-0	7/19/00	SODIUM	TR1	55900	UG/L		6.8	
MOUND R1-0	7/19/00	SODIUM	TR2	54191	UG/L		6.8	
MOUND R1-0	7/19/00	SODIUM	TR1	55000	UG/L		6.8	
MOUND R1-0	7/19/00	STRONTIUM	TR1	496	UG/L		0.02	
MOUND R1-0	7/19/00	STRONTIUM	TR1	539	UG/L		0.02	
MOUND R1-0	7/19/00	STRONTIUM	TR2	518	UG/L		0.02	
MOUND R1-0	7/19/00	STRONTIUM	TR1	523	UG/L		0.02	
MOUND R1-0	7/19/00	STRONTIUM	TR1	531	UG/L		0.02	
MOUND R1-0	7/19/00	STYRENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	STYRENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	SULFATE	TR1	47	MG/L		1	
MOUND R1-0	7/19/00	SULFATE	TR1	47	MG/L		1	
MOUND R1-0	7/19/00	tert-BUTYLBENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	tert-BUTYLBENZENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	TETRACHLOROETHENE	TR1	67	UG/L		5	
MOUND R1-0	7/19/00	TETRACHLOROETHENE	TR1	64	UG/L		5	
MOUND R1-0	7/19/00	THALLIUM	TR1	0.9	UG/L	U	0.9	
MOUND R1-0	7/19/00	THALLIUM	TR1	0.9	UG/L	U	0.9	
MOUND R1-0	7/19/00	THALLIUM	TR2	0.9	UG/L	U	0.9	
MOUND R1-0	7/19/00	THALLIUM	TR1	0.9	UG/L	U	0.9	

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Appendix A - Mound Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit	Error
MOUND R1-0	7/19/00	THALLIUM	TR1	1	UG/L	B	0.9	
MOUND R1-0	7/19/00	TIN	TR1	0.52	UG/L	U	0.52	
MOUND R1-0	7/19/00	TIN	TR1	0.52	UG/L	U	0.52	
MOUND R1-0	7/19/00	TIN	TR2	0.52	UG/L	U	0.52	
MOUND R1-0	7/19/00	TIN	TR1	0.52	UG/L	U	0.52	
MOUND R1-0	7/19/00	TIN	TR1	0.52	UG/L	U	0.52	
MOUND R1-0	7/19/00	TOLUENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	TOLUENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	TOTAL XYLENES	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	TOTAL XYLENES	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	trans-1,2-DICHLOROETHENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	trans-1,2-DICHLOROETHENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	trans-1,3-DICHLOROPROPENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	trans-1,3-DICHLOROPROPENE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	TRICHLOROETHENE	TR1	87	UG/L		5	
MOUND R1-0	7/19/00	TRICHLOROETHENE	TR1	79	UG/L		5	
MOUND R1-0	7/19/00	TRICHLOROFUOROMETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	TRICHLOROFUOROMETHANE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	URANIUM-233,-234	TR1	4.53	PCI/L		0.142	0.703
MOUND R1-0	7/19/00	URANIUM-233 -234	TR1	4.17	PCI/L		0.189	0.676
MOUND R1-0	7/19/00	URANIUM-235	TR1	0.179	PCI/L	U	0.189	0.149
MOUND R1-0	7/19/00	URANIUM-235	TR1	0.0284	PCI/L	U	0.0767	0.0555
MOUND R1-0	7/19/00	URANIUM-238	TR1	2.74	PCI/L		0.168	0.548
MOUND R1-0	7/19/00	URANIUM-238	TR1	3.34	PCI/L		0.0767	0.603
MOUND R1-0	7/19/00	VANADIUM	TR1	0.51	UG/L	B	0.22	
MOUND R1-0	7/19/00	VANADIUM	TR1	0.96	UG/L	B	0.22	
MOUND R1-0	7/19/00	VANADIUM	TR2	1.06	UG/L	B	0.22	
MOUND R1-0	7/19/00	VANADIUM	TR1	0.42	UG/L	B	0.22	
MOUND R1-0	7/19/00	VANADIUM	TR1	1.1	UG/L	B	0.22	
MOUND R1-0	7/19/00	VINYL CHLORIDE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	VINYL CHLORIDE	TR1	5	UG/L	U	5	
MOUND R1-0	7/19/00	ZINC	TR1	12.6	UG/L	B	0.1	
MOUND R1-0	7/19/00	ZINC	TR1	11	UG/L	B	0.1	
MOUND R1-0	7/19/00	ZINC	TR2	6.7	UG/L	B	0.1	
MOUND R1-0	7/19/00	ZINC	TR1	5.7	UG/L	B	0.1	
MOUND R1-0	7/19/00	ZINC	TR1	13.6	UG/L	B	0.1	

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Appendix B – East Trenches Plume Analytical Data

Appendix B - East Trenches Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit
ET INFLUENT	6/13/00	1,1,1,2-TETRACHLOROETHANE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	1,1,1,2-TETRACHLOROETHANE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	1,1,1-TRICHLOROETHANE	DL1	200	UG/L	D	200
ET INFLUENT	6/13/00	1,1,1-TRICHLOROETHANE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	1,1,2,2-TETRACHLOROETHANE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	1,1,2,2-TETRACHLOROETHANE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	1,1,2-TRICHLOROETHANE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	1,1,2-TRICHLOROETHANE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	1,1-DICHLOROETHANE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	1,1-DICHLOROETHANE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	1,1-DICHLOROETHENE	DL1	200	UG/L	D	200
ET INFLUENT	6/13/00	1,1-DICHLOROETHENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	1,1-DICHLOROPROPENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	1,1-DICHLOROPROPENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	1,2,3-TRICHLOROBENZENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	1,2,3-TRICHLOROBENZENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	1,2,3-TRICHLOROPROPANE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	1,2,3-TRICHLOROPROPANE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	1,2,4-TRICHLOROBENZENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	1,2,4-TRICHLOROBENZENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	1,2-DIBROMOETHANE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	1,2-DIBROMOETHANE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	1,2-DICHLOROBENZENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	1,2-DICHLOROBENZENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	1,2-DICHLOROETHANE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	1,2-DICHLOROETHANE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	1,2-DICHLOROPROPANE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	1,2-DICHLOROPROPANE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	1,3-DICHLOROBENZENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	1,3-DICHLOROBENZENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	1,3-DICHLOROPROPANE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	1,3-DICHLOROPROPANE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	1,4-DICHLOROBENZENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	1,4-DICHLOROBENZENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	2,2-DICHLOROPROPANE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	2,2-DICHLOROPROPANE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	4-ISOPROPYLTOLUENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	4-ISOPROPYLTOLUENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	BENZENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	BENZENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	BENZENE, 1,2,4-TRIMETHYL	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	BENZENE, 1,2,4-TRIMETHYL	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	BENZENE, 1,3,5-TRIMETHYL-	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	BENZENE, 1,3,5-TRIMETHYL-	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	BROMOBENZENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	BROMOBENZENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	BROMOCHLOROMETHANE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	BROMOCHLOROMETHANE	TR1	100	UG/L	U	100

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Appendix B - East Trenches Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit
ET INFLUENT	6/13/00	BROMODICHLOROMETHANE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	BROMODICHLOROMETHANE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	BROMOFORM	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	BROMOFORM	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	BROMOMETHANE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	BROMOMETHANE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	CARBON TETRACHLORIDE	DL1	150	UG/L	JD	200
ET INFLUENT	6/13/00	CARBON TETRACHLORIDE	TR1	230	UG/L		100
ET INFLUENT	6/13/00	CHLOROENZENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	CHLOROENZENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	CHLOROETHANE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	CHLOROETHANE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	CHLOROFORM	DL1	69	UG/L	JD	200
ET INFLUENT	6/13/00	CHLOROFORM	TR1	110	UG/L		100
ET INFLUENT	6/13/00	CHLOROMETHANE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	CHLOROMETHANE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	cis-1,2-DICHLOROETHENE	DL1	23	UG/L	JD	200
ET INFLUENT	6/13/00	cis-1,2-DICHLOROETHENE	TR1	30	UG/L	J	100
ET INFLUENT	6/13/00	cis-1,3-DICHLOROPROPENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	cis-1,3-DICHLOROPROPENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	DIBROMOCHLOROMETHANE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	DIBROMOCHLOROMETHANE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	DIBROMOMETHANE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	DIBROMOMETHANE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	DICHLORODIFLUOROMETHANE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	DICHLORODIFLUOROMETHANE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	ETHYLBENZENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	ETHYLBENZENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	HEXACHLOROBUTADIENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	HEXACHLOROBUTADIENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	ISOPROPYLBENZENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	ISOPROPYLBENZENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	METHYLENE CHLORIDE	DL1	620	UG/L	BD	200
ET INFLUENT	6/13/00	METHYLENE CHLORIDE	TR1	25	UG/L	BJ	100
ET INFLUENT	6/13/00	NAPHTHALENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	NAPHTHALENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	n-BUTYLBENZENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	n-BUTYLBENZENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	n-PROPYLBENZENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	n-PROPYLBENZENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	o-CHLOROTOLUENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	o-CHLOROTOLUENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	p-CHLOROTOLUENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	p-CHLOROTOLUENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	PROPANE, 1,2-DIBROMO-3-CHLORO-	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	PROPANE, 1,2-DIBROMO-3-CHLORO-	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	sec-BUTYLBENZENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	sec-BUTYLBENZENE	DL1	200	UG/L	U	200

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Appendix B - East Trenches Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit
ET INFLUENT	6/13/00	STYRENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	STYRENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	tert-BUTYLBENZENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	tert-BUTYLBENZENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	TETRACHLOROETHENE	TR1	490	UG/L		100
ET INFLUENT	6/13/00	TETRACHLOROETHENE	DL1	350	UG/L	D	200
ET INFLUENT	6/13/00	TOLUENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	TOLUENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	TOTAL XYLENES	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	TOTAL XYLENES	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	trans-1,2-DICHLOROETHENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	trans-1,2-DICHLOROETHENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	trans-1,3-DICHLOROPROPENE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	trans-1,3-DICHLOROPROPENE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	TRICHLOROETHENE	DL1	2700	UG/L	D	200
ET INFLUENT	6/13/00	TRICHLOROETHENE	TR1	3600	UG/L	E	100
ET INFLUENT	6/13/00	TRICHLOROFLUOROMETHANE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	TRICHLOROFLUOROMETHANE	TR1	100	UG/L	U	100
ET INFLUENT	6/13/00	VINYL CHLORIDE	DL1	200	UG/L	U	200
ET INFLUENT	6/13/00	VINYL CHLORIDE	TR1	100	UG/L	U	100
ET EFFLUENT	6/13/00	1,1,1,2-TETRACHLOROETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	1,1,1-TRICHLOROETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	1,1,2,2-TETRACHLOROETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	1,1,2-TRICHLOROETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	1,1-DICHLOROETHANE	TR1	1	UG/L		1
ET EFFLUENT	6/13/00	1,1-DICHLOROETHENE	TR1	0 1	UG/L	J	1
ET EFFLUENT	6/13/00	1,1-DICHLOROPROPENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	1,2,3-TRICHLOROBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	1,2,3-TRICHLOROPROPANE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	1,2,4-TRICHLOROBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	1,2-DIBROMOETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	1,2-DICHLOROBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	1,2-DICHLOROETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	1,2-DICHLOROPROPANE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	1,3-DICHLOROBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	1,3-DICHLOROPROPANE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	1,4-DICHLOROBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	2,2-DICHLOROPROPANE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	4-ISOPROPYLTOLUENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	BENZENE	TR1	0 6	UG/L	J	1
ET EFFLUENT	6/13/00	BENZENE, 1,2,4-TRIMETHYL	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	BENZENE, 1,3,5-TRIMETHYL-	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	BROMOBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	BROMOCHLOROMETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	BROMODICHLOROMETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	BROMOFORM	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	BROMOMETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	CARBON TETRACHLORIDE	TR1	1	UG/L	U	1

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Appendix B - East Trenches Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit
ET EFFLUENT	6/13/00	CHLOROBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	CHLOROETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	CHLOROFORM	TR1	2	UG/L		1
ET EFFLUENT	6/13/00	CHLOROMETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	cis-1,2-DICHLOROETHENE	TR1	17	UG/L		1
ET EFFLUENT	6/13/00	cis-1,3-DICHLOROPROPENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	DIBROMOCHLOROMETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	DIBROMOMETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	DICHLORODIFLUOROMETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	ETHYLBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	HEXACHLOROBUTADIENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	ISOPROPYLBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	METHYLENE CHLORIDE	TR1	17	UG/L	B	1
ET EFFLUENT	6/13/00	NAPHTHALENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	n-BUTYLBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	n-PROPYLBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	o-CHLOROTOLUENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	p-CHLOROTOLUENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	PROPANE, 1,2-DIBROMO-3-CHLORO-	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	sec-BUTYLBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	STYRENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	tert-BUTYLBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	TETRACHLOROETHENE	TR1	2	UG/L		1
ET EFFLUENT	6/13/00	TOLUENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	TOTAL XYLENES	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	trans-1,2-DICHLOROETHENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	trans-1,3-DICHLOROPROPENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	TRICHLOROETHENE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	TRICHLOROFUOROMETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	6/13/00	VINYL CHLORIDE	TR1	0.8	UG/L	J	1
ET EFFLUENT	7/19/00	1,1,1,2-TETRACHLOROETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	1,1,1-TRICHLOROETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	1,1,2,2-TETRACHLOROETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	1,1,2-TRICHLOROETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	1,1-DICHLOROETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	1,1-DICHLOROETHENE	TR1	1	UG/L		1
ET EFFLUENT	7/19/00	1,1-DICHLOROPROPENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	1,2,3-TRICHLOROBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	1,2,3-TRICHLOROPROPANE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	1,2,4-TRICHLOROBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	1,2-DIBROMOETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	1,2-DICHLOROBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	1,2-DICHLOROETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	1,2-DICHLOROPROPANE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	1,3-DICHLOROBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	1,3-DICHLOROPROPANE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	1,4-DICHLOROBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	2,2-DICHLOROPROPANE	TR1	1	UG/L	U	1

Appendix B - East Trenches Plume Sampling Data

Location	Date	Analyte	Result Type	Result	Unit	Lab Qualifier	Detection Limit
ET EFFLUENT	7/19/00	4-ISOPROPYLTOLUENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	BENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	BENZENE, 1,2,4-TRIMETHYL	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	BENZENE, 1,3,5-TRIMETHYL-	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	BROMOBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	BROMOCHLOROMETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	BROMODICHLOROMETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	BROMOFORM	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	BROMOMETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	CARBON TETRACHLORIDE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	CHLOROBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	CHLOROETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	CHLOROFORM	TR1	0 2	UG/L	J	1
ET EFFLUENT	7/19/00	CHLOROMETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	cis-1,2-DICHLOROETHENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	cis-1,3-DICHLOROPROPENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	DIBROMOCHLOROMETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	DIBROMOMETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	DICHLORODIFLUOROMETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	ETHYLBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	HEXACHLOROBUTADIENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	ISOPROPYLBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	METHYLENE CHLORIDE	TR1	0 1	UG/L	JB	1
ET EFFLUENT	7/19/00	NAPHTHALENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	n-BUTYLBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	n-PROPYLBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	o-CHLOROTOLUENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	p-CHLOROTOLUENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	PROPANE, 1,2-DIBROMO-3-CHLORO-	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	sec-BUTYLBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	STYRENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	tert-BUTYLBENZENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	TETRACHLOROETHENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	TOLUENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	TOTAL XYLENES	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	trans-1,2-DICHLOROETHENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	trans-1,3-DICHLOROPROPENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	TRICHLOROETHENE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	TRICHLOROFLUOROMETHANE	TR1	1	UG/L	U	1
ET EFFLUENT	7/19/00	VINYL CHLORIDE	TR1	1	UG/L	U	1

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