

SCANNED

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Wind River Petroleum  
2040 East Murray Holladay Road  
Salt Lake City, Utah 84117

DERR 2009-002642

March 16, 2009  
Project No.: 1241-026A

SUBJECT: Monthly Report of Corrective Action – February 2009  
C-4 Top Stop  
15 South Main Street  
Gunnison, Utah  
UST Facility No. 2000220  
Release Site EMHB

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This monthly report has been prepared pursuant to the reporting requirements set forth in the May 9, 2008, Corrective Action Plan Summary Letter prepared by Wasatch Environmental on behalf of Wind River Petroleum. This report provides a brief background summarizing initial emergency response activities conducted following the discovery of a petroleum release at the C-4 Top Stop facility, estimates of contaminant mass removal, the status of remedial systems currently in place, and recent actions.

## 1. BACKGROUND

The C-4 Top Stop formerly operated as a convenience store and gas station at 15 South Main Street in Gunnison, Utah. On August 8, 2007, gasoline vapors were reported in businesses near the C-4 Top Stop. On August 9, Wind River Petroleum requested that Wasatch conduct an emergency response and preliminary investigation, which was initiated on August 10. Gasoline vapors were measured in buildings where vapors were reported, and ventilation fans were used to remove vapors from affected buildings.

Between August 21 and 27, 2007, Wasatch oversaw the removal of four underground storage tanks from the Top Stop property. Between August 15, 2007, and February 14, 2008, approximately 300 borings were advanced to identify the extent of the vapor plume. The East and West horizontal soil vapor extraction (SVE) systems were completed on both sides of Main Street on August 29 and September 21, respectively. During November 2007, the South SVE system was installed and began operation on November 20, 2007. Catalytic oxidizers were installed to provide emissions treatment for the East, West, and South systems. The Central SVE System began operation on November 27, 2007, utilizing a flame oxidizer system to burn extracted vapors. Installation of a sparge curtain treatment system was initiated on December 4, 2007, at the leading edge of the groundwater plume and was activated on January 22, 2008 (see Figure 1).

Throughout the period of investigation, system installation and remediation, Summa canisters were utilized to analyze indoor air in businesses and homes where occupants reported gasoline odors, or were concerned that gasoline vapors might be present.

## 2. ESTIMATES OF CONTAMINANT MASS REMOVAL

The estimated quantity of gasoline removed from the subsurface and combusted by five SVE systems through March 10, 2009, is presented on Table 1 below. In conjunction with the rise of the water table across the site in July 2008, vapor extraction has been suppressed in each SVE system. Contaminant mass extracted by the East, Central, and South systems was insignificant during the month of February

2009 (Table 1). PID readings obtained from the three systems ranged between 0.0 and 7.5 ppm (See Table 3 on page 5).

During the previous three months (December 2008 through February 2009), the West B SVE Catox System recorded the only measurable vapor combustion since July 2008 (Table 1), which correlates with a general decrease in groundwater elevation during the same period. Notwithstanding some fluctuations in groundwater elevations in late January and early February 2009 (See Table 4), the fuel combusted by the West B Catox System has increased each month (See Table 1). The West Alley SVE System has shown an increase in extracted vapor concentration, though still less than one gallon per month.

Vapor emissions from the six SVE systems are measured weekly with a PID and are presented in Table 3 of this report (p. 5).

**Table 1. Estimated Mass Removal**

TIME OF OPERATION	West A SVE CAT-OX	West B SVE CAT-OX	East SVE CAT-OX	Central SVE Flame-OX	South SVE CAT-OX	West Alley SVE	Gallons Combusted
STARTUP DATE	11-21-07	12-05-07	11-13-07	3-04-08	12-12-07	5-16-08	
STARTUP TO 06/11/08	3,069	1,293	2,863	3,166	452	---	10,843
06/11/08 TO 07/15/08	49	34	16	117	10	172	398
07/15/08 TO 12/10/08	NM/NC	NM/NC	NM/NC	NM/NC	NM/NC	NC	NM/NC
12/10/08 TO 01/07/09	System Off	5	NM/NC	NM/NC	NM/NC	NC	5
01/10/08 TO 02/03/09	System Off	13	NM/NC	<1	NM/NC	<1	13
2/03/09 TO 3/10/09	System Off	18	NM/NC	NM/NC	NM/NC	<1	18
<b>TOTALS BY SYSTEM</b>	<b>3,118</b>	<b>1,363</b>	<b>2,879</b>	<b>3,283</b>	<b>462</b>	<b>172</b>	<b>11,277</b>

- a) NM: Not Measurable – No temperature increase across Catox and Flame oxidizer units
- b) NC: Not calculated due to insignificant concentrations
- c) The Gallons Combusted in the above table do not include gallons removed by the East and West SVE Systems during the period before catalytic oxidizers were installed.
- d) Based on average PID readings obtained during the period from 7/16/2008 through 1/07/2009 (See Table 3), the Central SVE System has combusted an additional 34 gallons of contaminant mass, which is not included in the above table.
- e) The Total Gallons Combusted by the West SVE System is 4,481 – the sum of gallons combusted by the West A and West B Catox units.

### 3. BUILDING VENTILATION SYSTEMS

Eleven Building Ventilation Systems are currently operating in two businesses and nine residences across the site. PID measurements are made monthly from the exhaust stacks of the ventilation systems. PID data obtained between May 14, 2008, and February 17, 2009, are presented in Table 2.

**Table 2. Building Ventilation Systems Emissions – PID Data (PPM)**

Date of PID Measurement	26W 100 S St.	36W 100 S St.	29W 100 S St.	39 W 100 S St.	59 W 200 S St. (Side)	59W 200 S St. (Rear)	60 W 200 S St.	70 W 200 S St.	96 W 200 S St.	His N Hers	White Hills Trading Co
05-14-08	0.0	10.2	18.3	92	---	---	0.0	---1	0.0	16.8	---
05-23-08	0.0	0.9	16.8	85	0.0	2.6	0.0	---	0.0	24.5	---
06-03-08	0.1	0.2	11.0	41	0.0	0.9	0.0	---	0.0	18.0	---
06-11-08	0.0	0.2	12.0	35	0.0	1.1	0.0	---	0.0	19.9	---

Date of PID Measurement	26W 100 S St.	36W 100 S St.	29W 100 S St.	39 W 100 S St.	59 W 200 S St. (Side)	59W 200 S St. (Rear)	60 W 200 S St.	70 W 200 S St.	96 W 200 S St.	His N Hers	White Hills Trading Co
06-18-08	0.0	0.0	9.0	29	0.0	0.6	0.0	---	0.0	---	---
06-25-08	0.0	0.4	7.0	20.5	0.0	0.0	0.0	---	0.0	---	---
07-01-08	0.0	0.0	5.6	16.4	0.0	0.0	0.0	---	0.0	17	---
07-08-08	0.0	0.0	3.0	12.1	0.0	0.0	0.1	---	0.0	---	---
07-16-08	0.1	0.0	2.2	11.4	0.0	0.0	0.0	---	0.0	11	---
07- 31-08	0.0	0.0	1.5	8.3	0.0	0.0	0.0	---	0.0	7.6	---
08-26-08	---	---	1.0	8.0	---	---	---	---	---	---	---
09-16-08	0.0	0.0	0.0	5.7	0.0	0.0	0.0	---	0.0	3.7	0.0
10-21-08	0.0	---	0.0	3.3	0.0	0.0	0.0	---	0.0	1.8	0.0
11-13-08	0.0	0.0	0.0	2.1	0.0	0.0	0.0	---	0.0	---	0.0
12-19-08	0.0	0.0	2.9	6.4	0.0	0.0	0.0	---	0.0	3.9	0.0
01-20-09	0.0	0.0	1.5	3.8	0.0	0.0	0.0	---	0.0	3.6	0.0
02-17-09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	0.0	2.2	0.0

<sup>1</sup> Ventilation piping is inside residence. Discharge is on the roof.

#### 4. OPERATING CONDITIONS

##### 4.1 Power Outages

During February 2009, no system shut-downs of the East, West, Central, or West Alley SVE systems occurred as a result of power outages. The South SVE System was shut down from a power outage on March 3, 2009. The South SVE System and the Sparge Curtain were shut down briefly. No other systems were affected by the outage.

##### 4.2 Groundwater Depth

Groundwater levels across the site between August and December 2007 were relatively low, compared with the levels observed during the same period of 2008. A relatively high groundwater table throughout 2008 was a limiting factor in the contaminant vapor concentrations removed from the subsurface by the SVE systems.

Currently, Wasatch monitors groundwater levels weekly in wells WS-2, TW-3, MW-1, MW-5, MW-9, MW-12, and MW-14 to track water table fluctuations (See Table 4, Appendix A). A comparison of groundwater elevations in measured wells across the site between February 2008 and February 2009 indicated the groundwater levels remained 0.31 to 1.15 ft. higher in 2009 than in the previous year. This comparison does not include well WS-2, in which groundwater elevation is affected by sparging and vapor extraction. Depth-to-water graphs are presented in Appendix B.

## 5. ACTIONS

### 5.1 Indoor Air Samples

RMEC Environmental, Inc. (RMEC) has proposed a Vapor Intrusion Study of the soil beneath each residence overlying or adjacent to the plume. Previously, residences have been tested through the collection of indoor air samples in six-liter Summa canisters. RMEC submitted a work plan to the DERR to evaluate sub-slab, or sub-soil vapor concentrations for all homes within the impacted area. The work plan has been approved and will be discussed in the Gunnison City Council meeting at 7:00 PM on March 18, 2009.

### 5.2 Evaluation of Utilities

On February 10, 2009, sewer manholes and selected water meter boxes located within and near plume boundaries were scanned for vapors, using a PID. No vapors were detected. The utilities will be checked again in March.

### 5.3 System Status

**East SVE System:** Emissions measured between February 10 and March 10, 2009 ranged between 0.0 and 6.5 ppm. See Table 3 below. The Catox circular charts have recorded no temperature increase.

**West SVE System:** Due to reduced concentrations of vapors recovered from the SVE trench on the west side of Main Street and the SVE trench behind the Casino Star Theatre, the West A catalytic oxidizer was turned off in August 2008. Vapors from the two SVE trenches and from the conduit inside the theater basement are currently combusted by the West B catalytic oxidizer. During the month of December 2008, the West B unit began to show an increase in vapors recovered, primarily from the West Alley trench (See Table 3). The average temperature increase across the Catox unit rose to a maximum of 11°F, during January 2009.

In February 2009, vapor concentrations decreased for a short period when groundwater elevation rose slightly (Table 3 below and Table 4 in Appendix A). In late February, water elevations declined and vapor concentrations began rising. The temperature increase across West Catox B rose to a maximum of 26 degrees on March 10, 2009. The estimated mass removal between February 10 and March 10, 2009, was 18 gallons, compared to 13 gallons in January 2009 and 5 gallons in December 2008. See Table 1 above.

**West Alley SVE System:** PID readings in January and February have shown an increase in vapor concentrations, which apparently correlates with a subsiding water table. A maximum reading of 90 ppm was obtained on March 10, 2009, prior to carbon filtration. See Table 3 below.

**Central SVE System:** Due to reduced concentrations of vapors recovered by the Central SVE System, the flame oxidation unit is currently shut off, and vapors are currently being treated by carbon filtration. PID readings on February 10, 17, and 24, and March 3 and 10, 2009, were 1.1, 1.0, 0.8, 3.5, and 7.5 ppm, respectively. See Table 3 below.

**South SVE System:** The catalytic oxidizer was restarted in December 2008. Currently, two SVE systems operate independently. The South SVE system extracts air from the horizontal trench system. The air stream is then passed through a catalytic oxidizer. PID readings in February 2009 have shown emissions ranging between 0.0 and 1.5. See Table 3 below.

A second blower system pulls air from extraction wells EW-1 and EW-2, and from a well in the basement of the 255 South 100 West Street residence. The air stream is passed through carbon filters prior to discharge to the atmosphere. The maximum PID reading was 1.2 ppm in September shortly after startup. Subsequent readings in October, November, and December 2008, and in January and February 2009 have ranged between 0.0 and 0.4 ppm.

**Sparge Curtain Treatment System:** This system consists of a sparge system and an SVE system. The sparge system has been in operation throughout the month of January 2009. The SVE System has continued to operate without interruption. SVE emissions from the nine cells were tested weekly using a PID between February 10 and March 10, 2009. No vapors were detected. See Table 3 below.

Date of PID Measurement	East SVE System (PPM)	West SVE System (Unit A) (PPM)	West SVE System (Unit B) (PPM)	South SVE System (PPM)	Central SVE System (PPM)	Sparge Curtain (PPM)	West Alley SVE System (PPM)
May 20, 2008	115	332	391	65	383	0.0	1280
Jun 3, 2008	80	213	263	33	201	0.0	460
Jun 11, 2008	60	242	303	31	120	0.0	240
Jun 25, 2008	43	123	158	11.6	64	0.0	202
Jul 1, 2008	27	101	132	6.3	41	0.0	142
Jul 8, 2008	18	81	103	5.0	28	0.0	91
Jul 16, 2008	10	84	104	2.0	21	0.0	98
Jul 24, 2008	29	76	98	2.0	20	0.0	---
Sep 16, 2008	0.4	15.4	47	1.1	17	0.0	11.9
Oct 21, 2008	0.7	System off	35	1.0	8.8	0.0	2
Nov 13, 2008	0.1	System off	31.4	0.9	1.4	---	0.1
Nov 24, 2008	0.4	System off	45	0.0	---	0.0	---
Dec 1, 2008	0.1	System off	26	---	2.0	0.0	---
Dec 9, 2008	0.0	System off	51	0.0	3.4	0.0	0.5
Dec 19, 2008	0.0	System off	141	0.0	5.8	12.1	---
Dec 30, 2008	0.0	System off	151	0.0	3.9	1.9	---
Jan 07, 2009	0.9	System off	162	1.2	1.5	0.2	---
Jan 14, 2009	---	System off	80	---	---	0.0	0.0
Jan 20, 2009	---	System off	73	0.3	1.6	0.0	26
Jan 27, 2009	---	System off	56.5	0.0	1.26	0.0	50
Feb 03, 2009	3.5	System off	41	0.1	1.1	0.0	40
Feb 10, 2009	5.2	System off	42	0.0	1.1	0.0	32
Feb 17, 2009	5.9	System off	34.5	0.0	1.0	0.0	29
Feb 24, 2009	4.0	System off	53	0.0	0.8	0.0	32
Mar 03, 2009	6.5	System off	71	0.0	3.5	0.0	61
Mar 10, 2009	0.0	System off	123	1.5	7.5	0.0	90

<sup>1</sup> Blower system undergoing repairs

## 5.7 Groundwater Sparging

In August 2008, groundwater sparging was initiated in wells on the Top Stop property, in the Central SVE area, and in the South SVE area. The rise in groundwater elevation has resulted in enough water in the wells to evaluate the effectiveness of air sparging to reduce dissolved hydrocarbon concentrations in groundwater.

Wells WS-1, WS-2, and WS-3 (East SVE System), trench wells TW-4 and TW-6 (Central SVE System), and trench wells TW-1 and TW-2 (South SVE System) are currently being utilized as groundwater sparge wells.

The effectiveness of the groundwater sparging was evaluated in well WS-2 by laboratory analysis of groundwater samples obtained from the well on February 19, 2009 (Appendix C). Prior to sampling, the air-sparge and SVE lines to the well were closed, and the well was allowed to equilibrate for 24 hours before sampling. The benzene concentration in well WS-2 was 3.8 mg/l on June 25, 2008. In the sample obtained on November 11, 2008, it had decreased to 0.39 mg/l, but in the sample from February 19, 2009, it increased to 0.82 mg/l. Recent evaluation of WS-1, WS-2, and WS-3 indicated the three wells had become plugged with biomass. Wasatch will perform maintenance on the wells in March.

## **5.8 Uninterrupted Power Supply**

Uninterrupted power supply (UPS) systems are currently installed in the East, West B, and South SVE systems. The UPS systems supply temporary electrical power until restoration of electrical service; these systems will then automatically restart. Currently, the Central, West Alley, and Sparge Curtain SVE systems start automatically upon restoration of electrical service following power outages.

## **5.9 Quarterly Groundwater Sampling**

Quarterly monitoring was conducted on February 17-19, 2009. The locations of monitoring wells and the detected benzene concentration in each well from the November sampling are shown on Figure 1. No free product was measured in any of the monitoring wells. Groundwater samples were collected from each well using a new 1½-inch diameter disposable polyethylene bailer. Groundwater was purged until most solid particles were cleared from the groundwater, and then groundwater samples were collected into hydrochloric acid (HCl)-preserved 40-milliliter glass vials containing Teflon septa lids. The 40-milliliter vials were filled slowly and completely to reduce the loss of volatiles. Groundwater samples were labeled with the location and the date and time of sample collection and placed in an iced cooler. The samples were transported in an iced cooler under chain-of-custody protocol to American West Laboratories for analyses. Groundwater samples were analyzed for TPH-GRO/DRO and BTEXN using U.S. EPA Method 8260B. A summary of current and historic groundwater analytical results is presented in Table 5 (Appendix B). The current laboratory analytical report is presented in Appendix D.

Most portions of the plume are showing a decrease in contaminant concentrations. In the current laboratory report, eight of the twenty wells tested (MW-2, MW-3, MW-5, MW-17, MW-20, MW-22, MW-25, and MW-29) showed a decrease in benzene concentrations. Samples from eight additional wells (MW-9, MW-14, MW-19, MW-21, MW-24, MW-28, MW-30, and MW-31) were below detection levels (BDL), and have always tested BDL. Four wells (WS-2, MW-23, MW-26, and MW-27), located along the center line of the plume in the up-gradient portion, showed an increase in benzene concentrations.

Based on the November 2008 and February 2009 laboratory results and current groundwater levels, the outer boundary of the plume is not expanding in any direction, including the down-gradient direction. In the plume's up-gradient portion, all tested wells located near the outer perimeter have shown a decrease in contaminant concentration. These wells include MW-5, MW-20, MW-22, and MW-25. In the plume's down-gradient and distal portions, all tested wells that in previous samples were positive for hydrocarbon constituents (MW-2, MW-3, MW-17, MW-20, and MW-29), have decreased in contaminant concentrations. Of these, well MW-3 is currently below the detection levels for BTEXN, and well MW-17 is below detection levels for all hydrocarbon constituents.

Our services consist of professional opinions and recommendations made in accordance with generally accepted environmental engineering principles and practices. This warranty is in lieu of all other warranties either expressed or implied. Should you have any questions, please do not hesitate to contact us.

Sincerely,

WASATCH ENVIRONMENTAL, INC.



Troy Smith  
Project Geologist



Rebecca Studenka  
Utah Certified UST Consultant

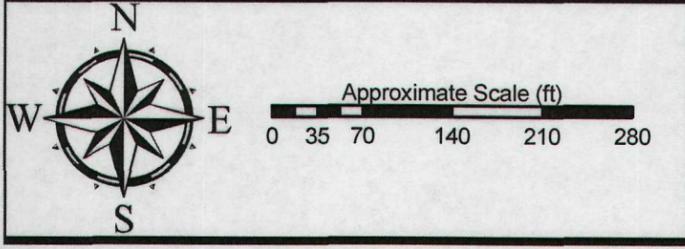


Les Pennington, P.E.  
Principal Engineer

- Figures: Figure 1 – Site Plan
- Appendices: Appendix A – Table 4, Historical Depth to Groundwater  
Appendix B – Historical Groundwater Depths Graphs  
Appendix C – Historical Groundwater Chemistry  
Appendix D – Quarterly Monitoring Laboratory Analytical Results
- Copies: (2) Addressee  
(1) Mr. Morgan Atkinson, Utah DERR  
(1) Gunnison City



Legend	
	Quarterly Monitoring Well
	Monitoring Well
	SVE Extraction Well
	SVE Trench System
	Building Ventilation System
	SVE System
	Water Meter
	Sewer Manhole



**WASATCH**  
 ENVIRONMENTAL  
*Environmental Science and Engineering*

Site Plan		
Gunnison, Utah		
PROJECT NO.	DRAWING DATE	FIGURE 1
1241-026A	September 30, 2008	

**APPENDIX A**

**TABLE 4**

**HISTORICAL DEPTH TO GROUNDWATER**

**Table 4**  
**Historical Depth to Groundwater**  
**Updated on 3/12/2009**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**  
**Facility ID 2000220, Release ID EMHB**

Sample Identity	Date	Depth to Groundwater (ft)
TW-1	1/11/08	12.50
	2/26/08	12.36
	6/26/08	12.29
TW-2	1/11/08	13.22
	2/26/08	13.06
	6/26/08	12.76
TW-3	1/11/08	12.23
	2/26/08	12.32
	6/26/08	12.03
	8/22/08	10.71
	9/16/08	10.41
	10/22/08	10.44
	12/1/08	11.21
	12/9/08	11.34
	12/19/08	11.51
	12/30/08	11.67
	1/6/09	11.78
	1/20/09	11.43
	1/27/09	11.32
	2/3/09	11.22
	2/10/09	11.19
	2/17/09	11.13
2/24/09	11.17	
3/10/09	11.75	
TW-4	1/11/08	17.93
	6/26/08	15.95
TW-6	12/19/07	13.86
	6/26/08	13.46
WS-1	1/11/08	13.19
	2/26/08	13.59
	6/25/08	11.62

**Table 4**  
**Historical Depth to Groundwater**  
**Updated on 3/12/2009**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**  
**Facility ID 2000220, Release ID EMHB**

<b>WS-2</b>	1/11/08	12.61
	2/26/08	11.31
	6/25/08	11.23
	11/18/08	9.93
	1/14/09	11.95
	1/20/09	11.94
	1/27/09	11.92
	2/10/09	12.20
	2/24/09	12.19
	3/3/09	12.52
3/10/09	12.48	
<b>WS-3</b>	1/11/08	10.50
	2/26/08	10.17
	6/25/08	10.21
<b>MW-1</b>	11/27/07	11.55
	12/19/07	11.89
	1/11/08	11.98
	2/26/08	11.85
	6/26/08	11.64
	8/22/08	10.84
	9/16/08	10.92
	10/22/08	11.06
	11/24/08	11.32
	12/1/08	11.43
	12/9/08	11.51
	12/19/08	11.61
	12/30/08	11.72
	1/6/09	11.78
	1/20/09	11.76
	1/27/09	11.43
	2/3/09	11.54
2/10/09	11.54	
2/17/09	11.52	
2/24/09	11.52	
3/10/09	11.74	

**Table 4**  
**Historical Depth to Groundwater**  
**Updated on 3/12/2009**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**  
**Facility ID 2000220, Release ID EMHB**

<b>MW-2</b>	11/27/07	11.84
	12/19/07	12.15
	1/11/08	12.28
	2/26/08	12.09
	6/26/08	11.99
	11/18/08	11.70
	2/17/09	11.96
<b>MW-3</b>	11/27/07	11.28
	12/19/07	11.64
	1/11/08	11.83
	2/26/08	11.48
	6/26/08	11.40
	11/18/08	11.04
	2/17/09	11.26
<b>MW-4</b>	11/27/07	12.36
	12/19/07	12.36
	1/11/08	12.62
	2/26/08	12.15
	6/26/08	11.70

**Table 4**  
**Historical Depth to Groundwater**  
**Updated on 3/12/2009**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**  
**Facility ID 2000220, Release ID EMHB**

<b>MW-5</b>	1/11/08	15.11
	2/26/08	15.59
	6/26/08	14.77
	8/22/08	12.85
	9/16/08	12.93
	10/22/08	12.82
	10/29/08	12.85
	11/18/08	13.24
	12/1/08	13.51
	12/9/08	13.75
	12/19/08	14.10
	12/30/08	14.26
	1/6/09	14.44
	1/20/09	14.42
	1/27/09	14.38
	2/3/09	14.39
	2/10/09	14.43
	2/17/09	14.51
	2/24/09	14.73
	3/3/09	14.91
3/10/09	15.13	
<b>MW-6</b>	1/11/08	12.20
	2/26/08	11.74
	6/26/08	11.62
<b>MW-7</b>	1/11/08	12.55
	2/26/08	12.07
	6/26/08	11.91
<b>MW-8</b>	1/11/08	12.95
	2/26/08	12.44
	6/26/08	12.04

**Table 4**  
**Historical Depth to Groundwater**  
**Updated on 3/12/2009**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**  
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<b>MW-9</b>	1/11/08	15.05
	2/26/08	14.54
	6/26/08	14.37
	11/18/08	13.61
	1/9/09	14.67
	1/27/09	14.11
	2/3/09	14.28
	2/17/09	14.20
	2/24/09	14.23
	3/3/09	14.20
	3/10/09	14.13
<b>MW-11</b>	1/11/08	10.08
	2/26/08	10.52
	6/26/08	10.35
	10/22/08	9.42
<b>MW-12</b>	1/11/08	10.60
	2/26/08	8.92
	6/26/08	8.72
	2/17/09	7.98
	2/24/09	8.00
	3/10/09	8.45
<b>MW-13</b>	1/11/08	9.94
	2/26/08	8.98
	6/26/08	9.83
<b>MW-14</b>	1/11/08	12.34
	2/26/08	12.23
	6/26/08	12.07
	11/18/08	11.15
	12/1/08	11.31
	12/9/08	11.43
	1/27/09	11.41
	2/3/09	11.41
	2/10/09	11.40
	2/17/09	11.38
	2/24/09	11.39
3/10/09	11.86	

**Table 4**  
**Historical Depth to Groundwater**  
**Updated on 3/12/2009**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**  
**Facility ID 2000220, Release ID EMHB**

<b>MW-15</b>	2/26/08	12.51
<b>MW-17</b>	2/26/08	14.56
	11/18/08	13.19
	2/17/09	14.17
<b>MW-18</b>	2/26/08	18.48
<b>MW-19</b>	10/22/08	14.78
	11/18/08	14.99
	2/17/09	14.67
<b>MW-20</b>	10/22/08	15.40
	11/18/08	15.68
	2/17/09	15.86
<b>MW-21</b>	10/22/08	10.05
	11/18/08	10.17
	2/17/09	11.00
<b>MW-22</b>	10/22/08	12.70
	11/18/08	10.18
	11/24/08	10.28
	2/17/09	13.20
<b>MW-23</b>	10/22/08	8.61
	11/18/08	12.93
	11/24/08	13.03
	12/9/08	13.30
	2/17/09	13.28
<b>MW-24</b>	10/22/08	9.99
	11/18/08	8.78
	11/24/08	8.88
	2/17/09	9.96
<b>MW-25</b>	10/22/08	14.24
	11/18/08	14.48
	2/17/09	15.16

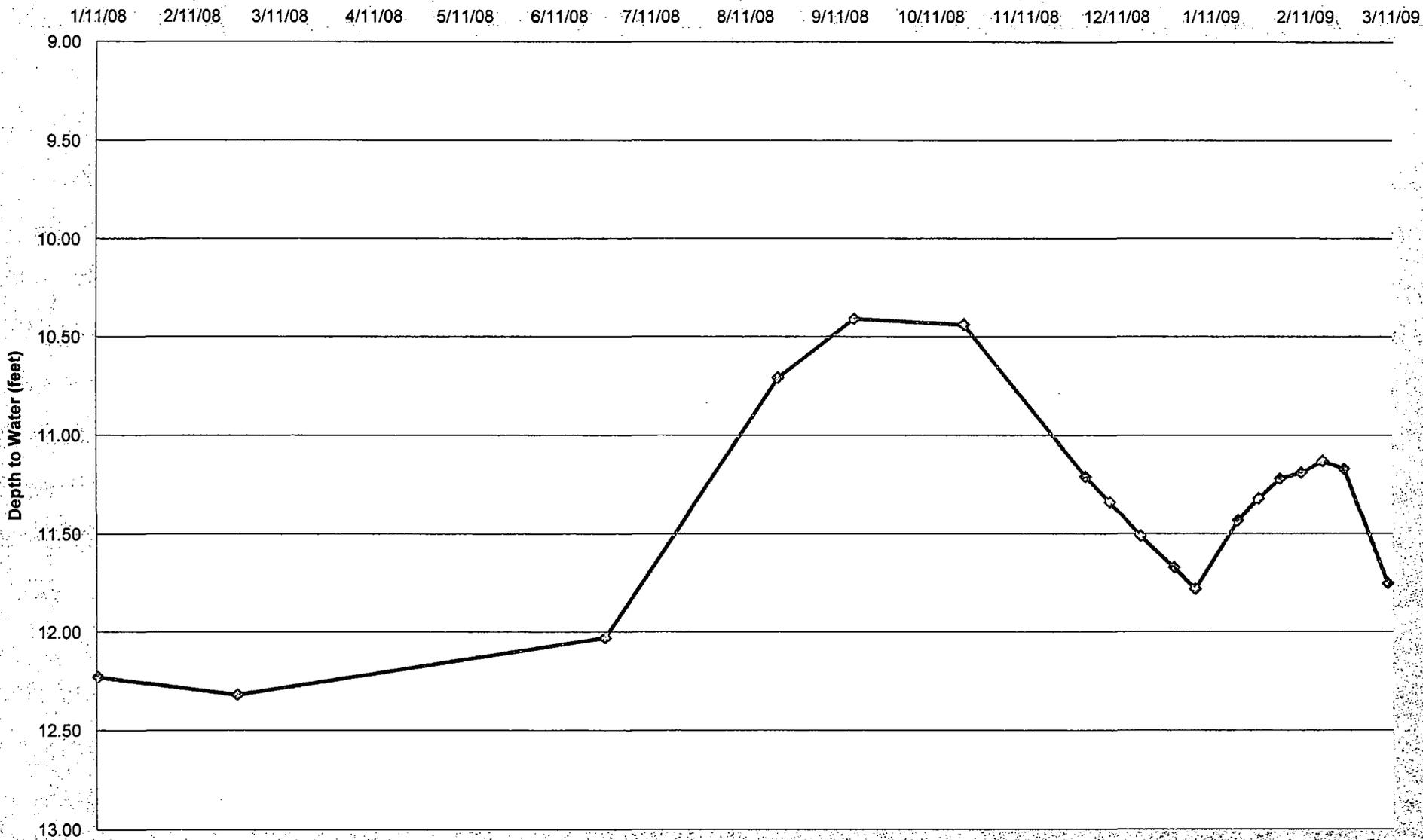
**Table 4**  
**Historical Depth to Groundwater**  
**Updated on 3/12/2009**  
**Gunnison Remediation**  
**15 South Main Street**  
**Gunnison, Utah**  
**Facility ID 2000220, Release ID EMHB**

<b>MW-26</b>	10/22/08	12.61
	11/18/08	13.18
	2/17/09	13.94
<b>MW-27</b>	10/22/08	12.42
	11/18/08	12.74
	2/17/09	13.65
<b>MW-28</b>	10/22/08	13.41
	11/18/08	13.76
	2/17/09	13.47
<b>MW-29</b>	10/22/08	13.75
	11/18/08	13.99
	2/17/09	14.07
<b>MW-30</b>	10/22/08	10.97
	11/18/08	11.08
	2/17/09	11.31
<b>MW-31</b>	10/22/08	10.94
	11/18/08	11.15
	2/17/09	12.33

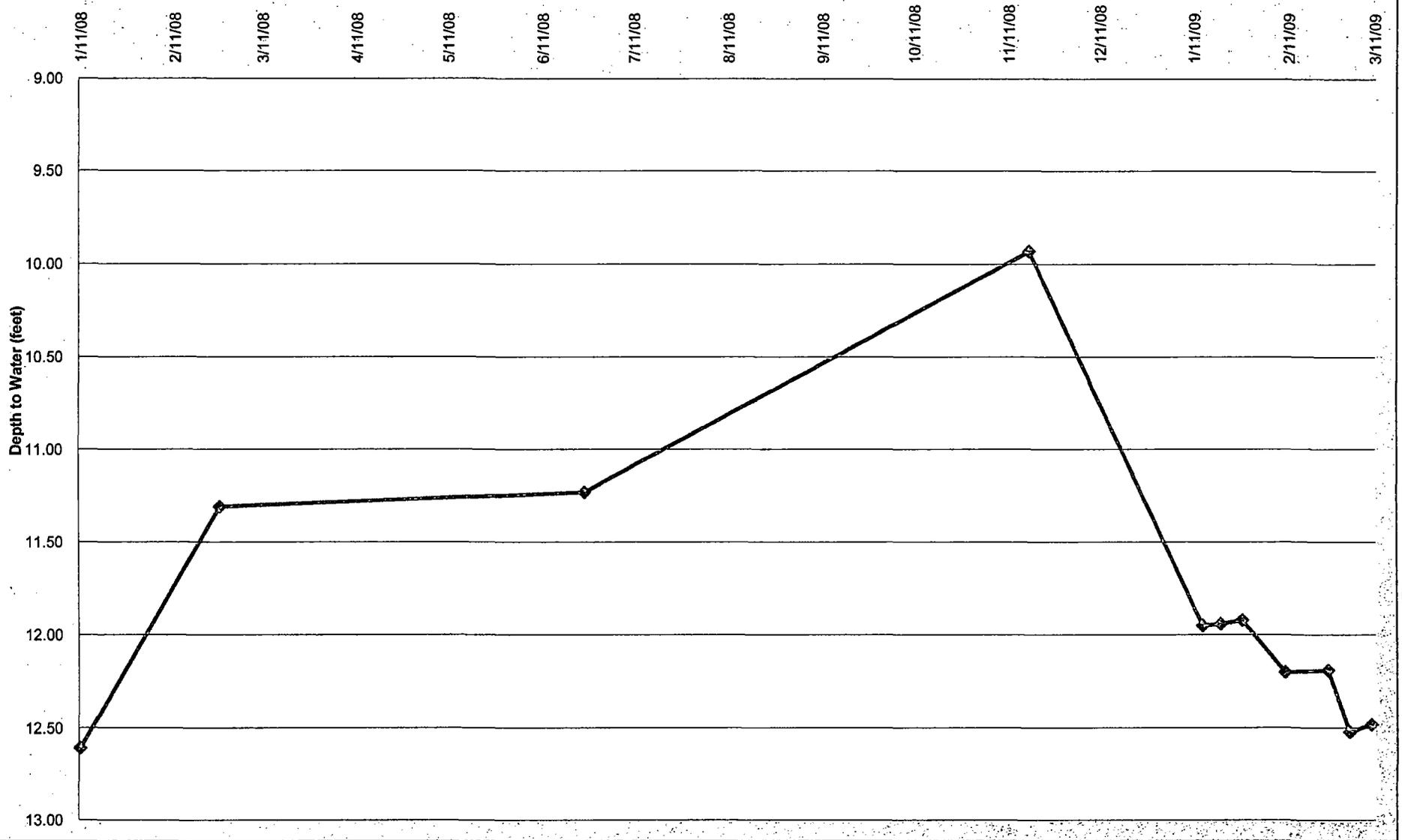
## **APPENDIX B**

### **HISTORICAL GROUNDWATER DEPTHS GRAPHS**

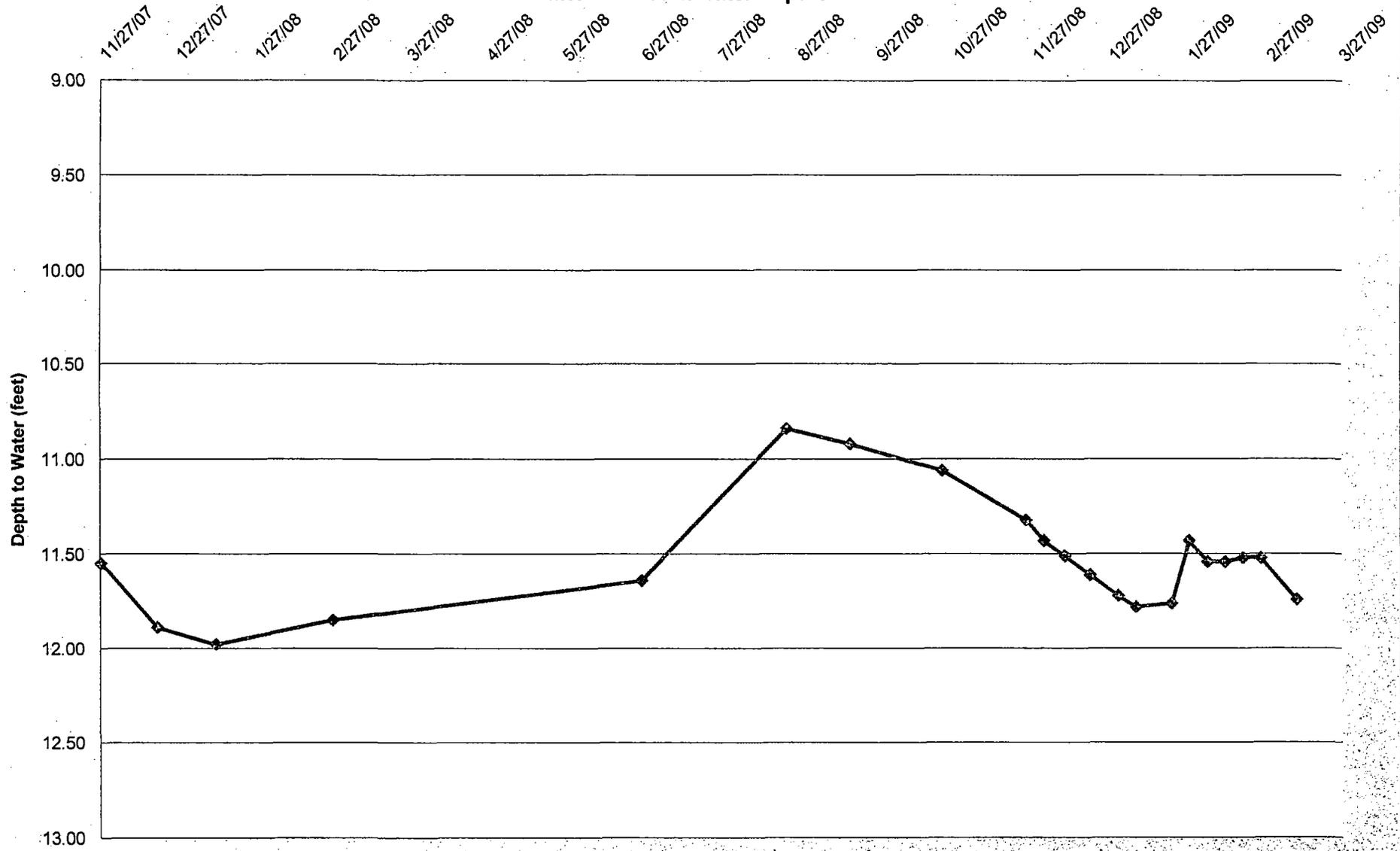
### TW-3 - Groundwater Depths



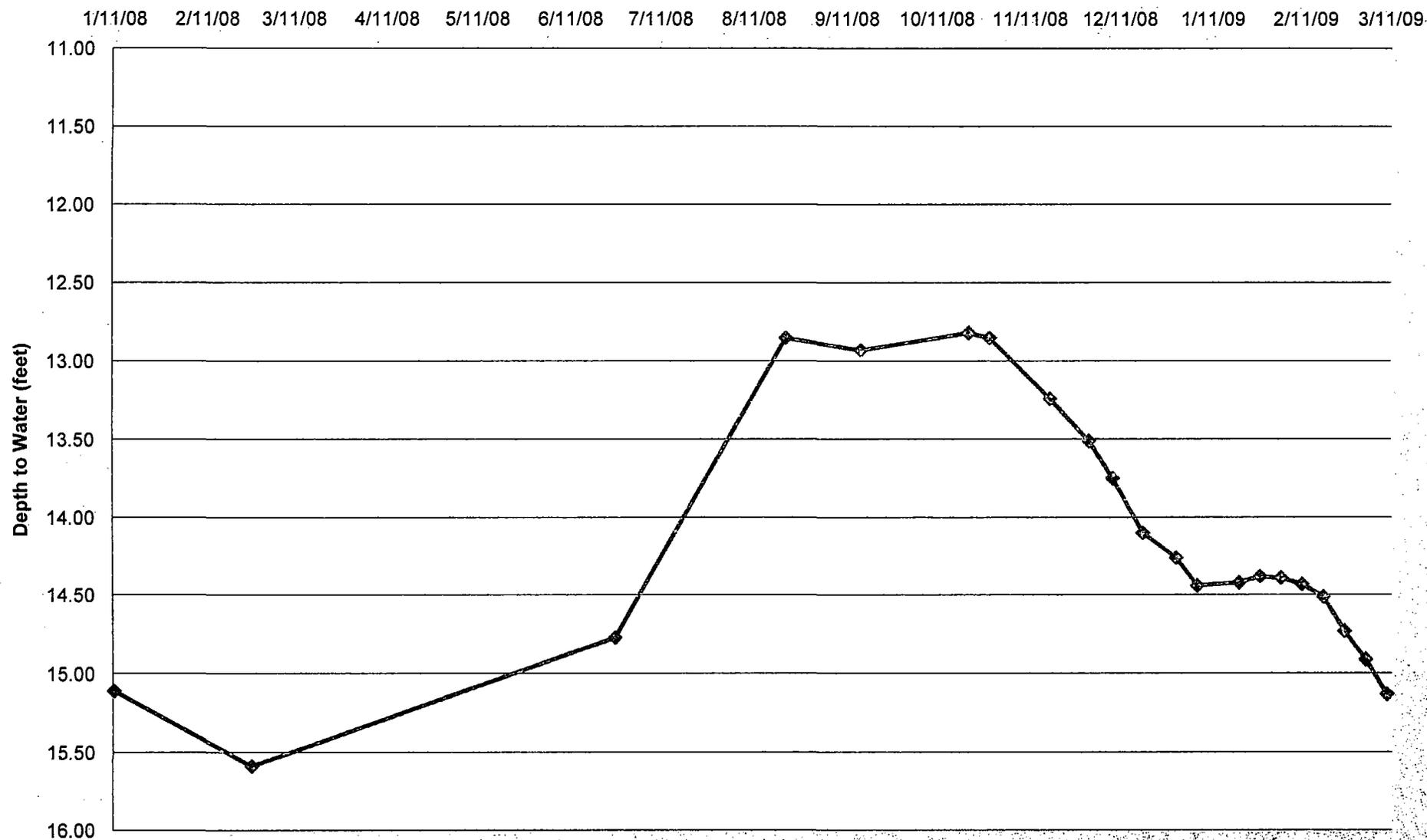
### WS-2 - Groundwater Depths



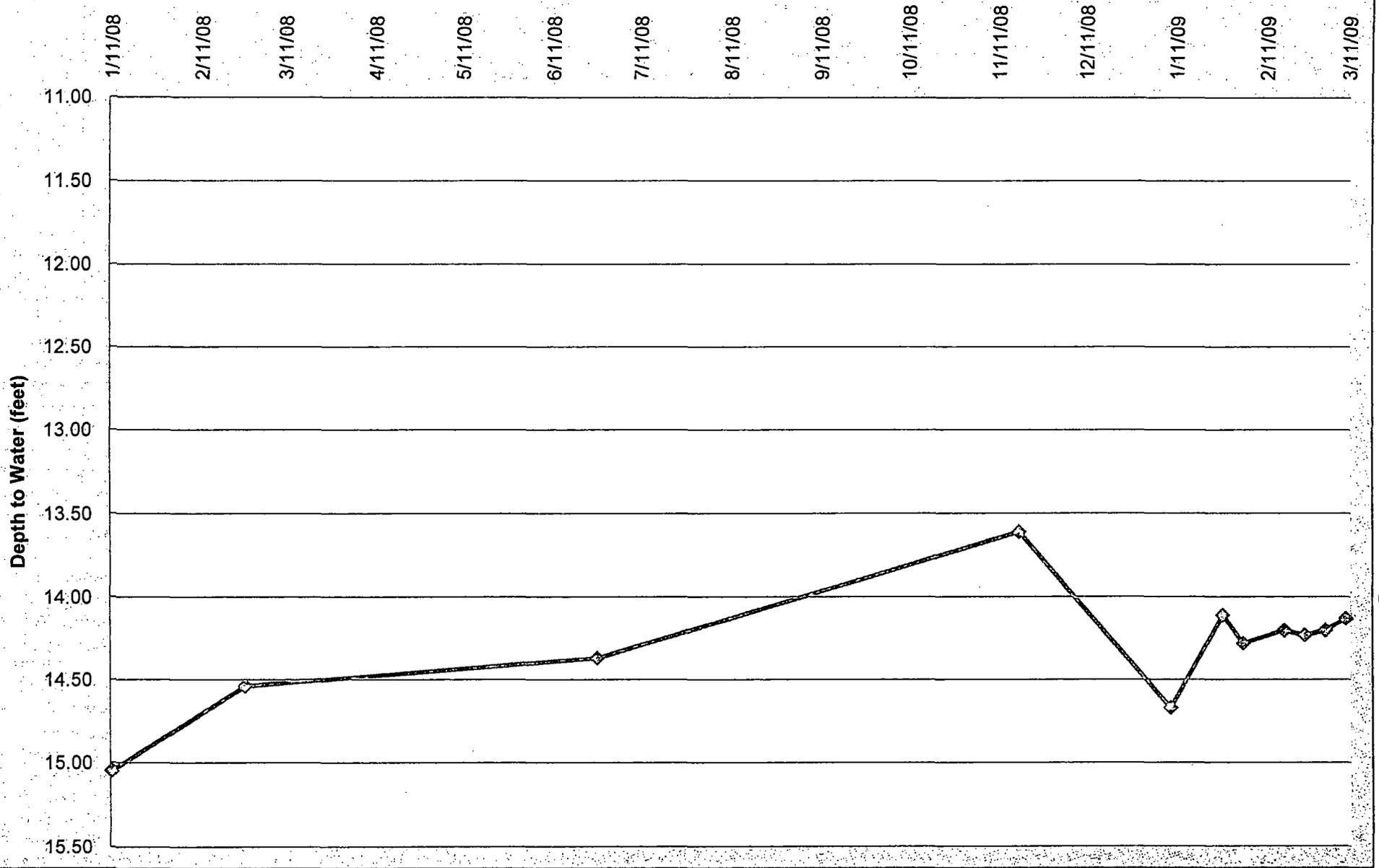
### MW-1 - Groundwater Depths



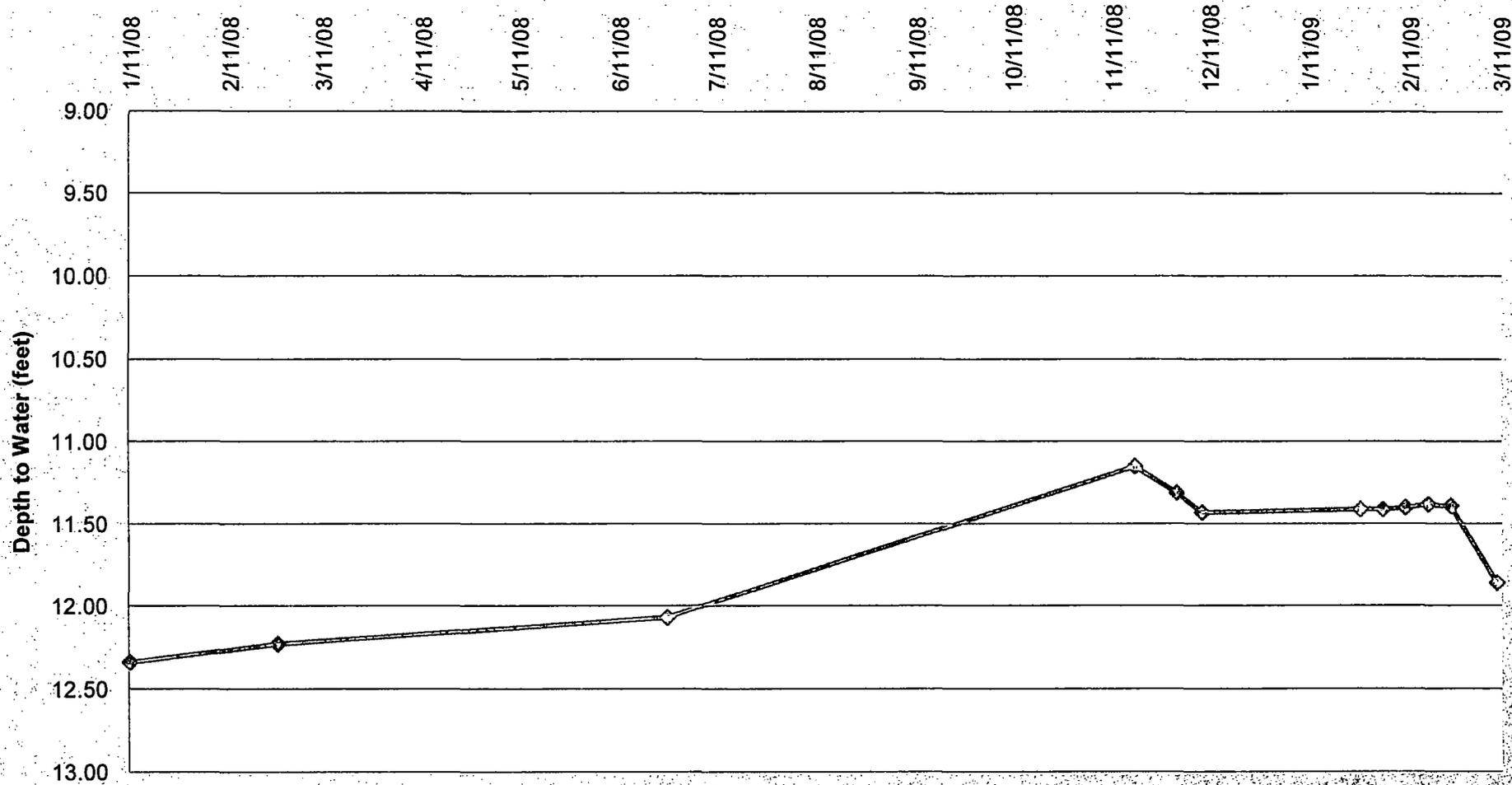
### MW-5 - Groundwater Depths



### MW-9 - Groundwater Depths



### MW-14 - Groundwater Depths



## **APPENDIX C**

### **TABLE 5**

#### **HISTORICAL GROUNDWATER CHEMISTRY**

**Table 5  
Historical Groundwater Chemistry  
Gunnison Remediation**

**Gunnison, Utah**

**Facility ID 2000220, Release ID EMHB**

Sample Identity	Date	TPH GRO C6-C10	TPH DRO C11-C15	Benzene	Toluene	Ethyl-Benzene	Xylenes	Naphthalene	Depth to Groundwater (ft)
MW1	11/27/07	7.8	0.032	2.8	0.85	0.02	3.8	0.048	11.55
	1/11/08	4.6	<0.020	1.3	0.4	<0.020	1.6	0.051	11.98
	6/26/08	0.082	<0.020	0.029	0.003	<0.002	<0.002	0.039	11.64
MW2	11/27/07	5.9	0.022	2.4	0.96	0.027	2.3	0.037	11.84
	6/26/08	0.46	0.025	0.13	0.0031	0.0028	0.063	0.054	11.99
	11/19/08	0.052	<0.020	0.01	<0.0020	<0.0020	<0.0020	0.0079	11.70
	2/18/09	0.47	<0.020	0.0047	<0.0020	<0.0020	<0.0020	0.0048	11.96
MW3	11/27/07	9.7	0.041	2.6	2.5	0.2	3.9	0.071	11.28
	6/26/08	0.23	0.067	0.012	0.002	<0.002	0.015	0.065	11.40
	11/19/08	<0.020	<0.020	0.001	<0.0020	<0.0020	<0.020	0.0048	11.04
	2/18/09	0.027	<0.020	<0.010	<0.020	<0.020	<0.020	<0.020	11.26
MW4	11/27/07	<0.020	<0.020	<0.002	<0.020	<0.020	<0.002	<0.002	12.36
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	11.70
MW5	11/27/07	6.3	0.036	4	0.62	0.057	1.0	0.089	NM
	1/11/08	8.2	0.021	4.1	0.88	0.11	0.49	0.15	15.11
	6/26/08	0.73	0.099	0.043	<0.002	0.071	0.023	0.11	14.77
	11/19/08	1	0.260	0.0097	0.0026	0.19	0.0027	0.017	13.24
	2/18/09	4.8	0.130	0.0025	<0.0020	0.2	<0.0020	<0.0020	14.51
MW6	6/26/08	0.035	<0.020	<0.002	<0.002	<0.002	0.0034	0.0026	11.62
MW7	1/11/08	3.9	<0.020	1.4	0.32	<0.020	1.5	<0.020	12.55
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	11.91
MW8	1/11/08	4.7	0.020	0.9	0.21	<0.0020	1.8	0.081	12.95
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	12.04
MW9	1/11/08	<0.020	<0.020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	15.05
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	14.37
	11/18/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	13.61
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.20
MW10		---	---	---	---	---	---	Dry	

**Table 5  
Historical Groundwater Chemistry  
Gunnison Remediation**

Gunnison, Utah

Facility ID 2000220, Release ID EMHB

Sample Identity	Date	TPH GRO C6-C10	TPH DRO C11-C15	Benzene	Toluene	Ethyl-Benzene	Xylenes	Naphthalene	Depth to Groundwater (ft)
MW11	1/11/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	10.08
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	10.35
MW12	1/11/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	10.60
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	8.72
MW13	1/11/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	9.94
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	9.83
MW14	1/11/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	12.34
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	12.07
	11/18/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.15
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.38
MW15	2/27/08	1.1	<0.020	0.49	0.039	<0.0020	0.45	0.0043	12.51
	6/26/08*	---	---	---	---	---	---	---	---
MW16	---	---	---	---	---	---	---	---	Dry
MW17	2/27/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.56
	6/26/08	0.22	<0.020	0.089	<0.002	<0.002	0.024	0.0056	NM
	11/18/08	0.56	<0.020	0.28	0.0023	<0.0020	0.0034	0.0082	13.19
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.17
MW18	6/26/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	NM
MW19	11/18/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.99
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	14.67
MW20	11/18/08	4.1	0.130	2.7	0.014	0.21	0.6	0.18	15.68
	2/19/09	14	0.170	2.6	0.068	0.6	0.72	0.16	15.86
MW21	11/18/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	10.17
	2/19/09	<0.020	<0.020	<0.0010	0.0025	<0.0020	<0.0020	<0.0020	11.00

**Table 5  
Historical Groundwater Chemistry  
Gunnison Remediation**

**Gunnison, Utah**

**Facility ID 2000220, Release ID EMHB**

Sample Identity	Date	TPH GRO C6-C10	TPH DRO C11-C15	Benzene	Toluene	Ethyl-Benzene	Xylenes	Naphthalene	Depth to Groundwater (ft)
MW22	11/18/08	1.2	0.044	0.42	0.013	<0.0020	0.0034	0.11	10.18
	2/19/09	2.3	0.034	0.21	0.0069	0.003	0.004	0.0094	13.20
MW23	11/18/08	11	<1.0	1.2	0.4	0.9	2.1	0.22	12.93
	2/19/09	16	<0.40	1.3	0.091	1.6	2.9	0.49	13.28
MW24	11/18/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	8.78
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	9.96
MW25	11/18/08	2	0.380	0.42	0.021	0.24	0.29	0.17	14.48
	2/19/09	13	0.220	0.19	0.012	0.28	0.25	0.12	15.16
MW26	11/18/08	4.9	<0.40	1.1	0.044	0.19	0.27	0.061	13.18
	2/19/09	9.9	0.570	1.2	0.064	0.71	1	0.62	13.94
MW27	11/18/08	94	<2.0	26	36	2.9	16	0.26	12.74
	2/19/09	100	<4.0	35	41	3.2	21	<0.40	13.65
MW28	11/18/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	13.76
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	13.47
MW29	11/18/08	20	<0.20	0.1	<0.020	0.56	2.7	0.28	13.99
	2/19/09	11	0.410	0.022	<0.020	0.24	0.55	0.22	14.07
MW30	11/18/08	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	11.08
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.002	<0.0020	11.31
MW31	11/18/08	<0.020	<0.020	<0.0010	<0.0020	0.0027	0.0056	0.0034	11.15
	2/19/09	<0.020	<0.020	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	12.33
TW-1	11/27/07	8.6	0.041	3	0.96	0.0046	3.9	0.097	16.24
	1/4/08	5.8	<0.020	1.2	0.50	<0.0020	2.4	0.11	NM
	6/26/08	0.081	<0.020	0.0071	<0.002	<0.002	0.027	0.01	12.29
TW-2	6/26/08	0.92	0.092	0.038	0.0068	<0.002	0.44	0.056	12.76

**Table 5  
Historical Groundwater Chemistry  
Gunnison Remediation**

**Gunnison, Utah**

**Facility ID 2000220, Release ID EMHB**

<b>Sample Identity</b>	<b>Date</b>	<b>TPH GRO C6-C10</b>	<b>TPH DRO C11-C15</b>	<b>Benzene</b>	<b>Toluene</b>	<b>Ethyl-Benzene</b>	<b>Xylenes</b>	<b>Naphthalene</b>	<b>Depth to Groundwater (ft)</b>
<b>TW-3</b>	11/27/07	1.6	<0.020	0.42	0.16	<0.020	0.62	0.032	NM
	1/4/08	0.56	<0.020	0.059	0.0093	<0.002	0.25	0.019	NM
	6/26/08	<0.020	<0.020	<0.002	<0.002	<0.002	<0.002	<0.002	12.03
<b>TW-4</b>	1/11/08	27	0.110	6	3.8	0.6	6.4	0.26	17.93
	6/26/08	50	0.930	4.3	11	3.3	27	1.3	15.95
<b>TW-6</b>	6/26/08	27	0.930	0.6	2.9	1.7	18	1.1	13.46
<b>WS-1</b>	8/14/2007	0.12	NS	0.018	0.0071	<0.0020	0.0022	<0.0020	NM
	12/13/2007	19	0.200	2.4	2.2	0.6	3.7	0.17	NM
	1/11/2008	37	<0.200	5.7	3.2	1.1	5.6	0.23	13.19
	6/25/2008	12	<0.020	2.2	3.6	0.32	4.9	0.12	11.62
<b>WS-2</b>	8/14/2007	<0.020	NS	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	NM
	12/13/2007	7	0.025	2.1	1.9	0.14	0.96	0.02	NM
	1/11/2008	0.088	<0.020	0.058	0.011	0.012	0.043	0.0021	12.61
	6/25/2008	7.4	<0.020	3.8	0.41	0.23	2.5	<0.02	11.23
	11/19/2008	3.1	0.082	0.39	0.21	0.11	0.32	0.063	9.93
	2/19/2009	12	0.073	0.82	0.58	0.19	0.85	0.077	12.19
<b>WS-3</b>	12/13/2007	6.9	0.500	0.12	<0.020	0.28	<0.020	0.1	NM
	1/11/2008	9.2	<0.020	0.22	<0.020	0.38	0.049	0.084	10.50
	6/25/2008	0.25	0.077	0.081	<0.002	0.017	0.0073	<0.002	10.21
<b>INITIAL SCREENING</b>		<b>1</b>	<b>1</b>	<b>0.005</b>	<b>1</b>	<b>0.7</b>	<b>10</b>	<b>0.7</b>	

TPH (GRO) = Total Petroleum Hydrocarbons (Gasoline Range C6 to C10)

TPH (DRO) = Total Petroleum Hydrocarbons (Diesel Range C11 to C15)

< = Concentrations less than the given instrument detection level

SHADED = Measured concentration exceeds Utah Initial Screening Level

\* Note: MW15 could not be located

\* Note: MW10 was dry

NS - Not Sampled

NM - Not Measured

**APPENDIX D**

**QUARTERLY MONITORING**

**LABORATORY ANALYTICAL RESULTS**



**AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES**

March 02, 2009

MAR 05 2009

Les Pennington  
Wasatch Environmental  
2410 West California Avenue  
Salt Lake City, UT 84104

463 West 3600 South  
Salt Lake City, Utah  
84115

TEL: (801) 972-8400

FAX: (801) 972-8459

RE: Gunnison Remediation / 1241-026A

Lab Set ID: L89001

Dear Les Pennington:

American West Analytical Labs received 20 samples on 2/20/2009 for the analyses presented in the following report.

(801) 263-8686

Toll Free (888) 263-8686

Fax (801) 263-8687

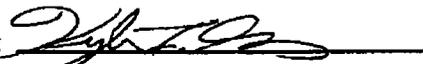
e-mail: awal@awal-labs.com

All analyses were performed in accordance to National Environmental Laboratory Accreditation Program (NELAP) protocols unless noted otherwise. If you have any questions or concerns regarding this report please feel free to call. The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction and/or purging efficiency.

Kyle F. Gross  
Laboratory Director

Thank you.

Jose Rocha  
QA Officer

Approved by:   
Laboratory Director or designee



## ORGANIC ANALYSIS REPORT

Client: Wasatch Environmental  
Project ID: Gunnison Remediation / 1241-026A

Contact: Les Pennington

**AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES**

Lab Sample ID: L89001-01A  
Field Sample ID: WS-2  
Collected: 2/19/2009 10:15:00 AM  
Received: 2/20/2009

Analyzed: 2/20/2009 12:21:00 PM

Analysis Requested: SW8260B/5030B

### Analytical Results

**8260-W-MBTEXN/TPH**

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = mg/L

Dilution Factor = 1

Compound

Reporting Limit

Analytical  
Result

Methyl tert-butyl ether

0.0020

< 0.0020

Benzene

0.020

0.82 D

Toluene

0.040

0.58 D

(801) 263-8686

Ethylbenzene

0.0020

0.19

Toll Free (888) 263-8686

Xylenes, Total

0.040

0.85 §

Fax (801) 263-8687

Naphthalene

0.0020

0.077

e-mail: awal@awal-labs.com

TPH C6 to C10 (GRO)

0.020

12

Kyle F. Gross

TPH C11 to C15 (DRO)

0.020

0.073

Laboratory Director

Surr: 1,2-Dichloroethane-d4

81-143

107

Surr: 4-Bromofluorobenzene

85-115

96.3

Jose Rocha

Surr: Dibromofluoromethane

80-124

93.8

QA Officer

Surr: Toluene-d8

80-125

97.5

*The pH of the sample was >2. Analysis was performed within the 7 day holding time.*

*D - This analyte was obtained from a 1:20 dilution.*

*§ - One or more constituents of this analyte were obtained from a 1:20 dilution.*



## ORGANIC ANALYSIS REPORT

Client: Wasatch Environmental  
Project ID: Gunnison Remediation / 1241-026A

Contact: Les Pennington

AMERICAN WEST ANALYTICAL LABORATORIES  
Lab Sample ID: L89001-02A  
Field Sample ID: MW-2  
Collected: 2/18/2009 4:50:00 PM  
Received: 2/20/2009

Analyzed: 2/23/2009 10:42:00 A

Analysis Requested: SW8260B/5030B

### Analytical Results

**8260-W-MBTEXN/TPH**

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = mg/L

Dilution Factor = 1

Compound

Reporting Limit

Analytical  
Result

Methyl tert-butyl ether

0.0020

< 0.0020

Benzene

0.0010

**0.0047**

Toluene

0.0020

< 0.0020

(801) 263-8686

Ethylbenzene

0.0020

< 0.0020

Toll Free (888) 263-8686

Xylenes, Total

0.0020

< 0.0020

Fax (801) 263-8687

Naphthalene

0.0020

**0.0048**

e-mail: awal@awal-labs.com

TPH C6 to C10 (GRO)

0.020

**0.47**

Kyle F. Gross

TPH C11 to C15 (DRO)

0.020

< 0.020

Laboratory Director

Surr: 1,2-Dichloroethane-d4

81-143

**107**

Surr: 4-Bromofluorobenzene

85-115

**103**

Jose Rocha

Surr: Dibromofluoromethane

80-124

**98.9**

QA Officer

Surr: Toluene-d8

80-125

**101**

*The pH of the sample was >2. Analysis was performed within the 7 day holding time.*



## ORGANIC ANALYSIS REPORT

Client: Wasatch Environmental  
Project ID: Gunnison Remediation / 1241-026A

Contact: Les Pennington

**AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES**

Lab Sample ID: L89001-03A  
Field Sample ID: MW-3  
Collected: 2/18/2009 5:00:00 PM  
Received: 2/20/2009

Analyzed: 2/24/2009 1:42:00 AM

Analysis Requested: SW8260B/5030B

### Analytical Results

**8260-W-MBTEXN/TPH**

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = mg/L

Dilution Factor = 1

Compound

Reporting Limit

Analytical  
Result

Methyl tert-butyl ether

0.0020

< 0.0020

Benzene

0.0010

< 0.0010

Toluene

0.0020

< 0.0020

(801) 263-8686

Ethylbenzene

0.0020

< 0.0020

Toll Free (888) 263-8686

Xylenes, Total

0.0020

< 0.0020

Fax (801) 263-8687

Naphthalene

0.0020

< 0.0020

e-mail: awal@awal-labs.com

TPH C6 to C10 (GRO)

0.020

**0.027**

Kyle F. Gross

TPH C11 to C15 (DRO)

0.020

< 0.020

Laboratory Director

Surr: 1,2-Dichloroethane-d4

81-143

**101**

Surr: 4-Bromofluorobenzene

85-115

**105**

Jose Rocha

Surr: Dibromofluoromethane

80-124

**98.9**

QA Officer

Surr: Toluene-d8

80-125

**101**



## ORGANIC ANALYSIS REPORT

Client: Wasatch Environmental  
Project ID: Gunnison Remediation / 1241-026A

Contact: Les Pennington

**AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES**

Lab Sample ID: L89001-04A  
Field Sample ID: MW-5  
Collected: 2/18/2009 3:10:00 PM  
Received: 2/20/2009

Analyzed: 2/20/2009 1:38:00 PM

Analysis Requested: SW8260B/5030B

### Analytical Results

**8260-W-MBTEXN/TPH**

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = mg/L  
Dilution Factor = 1

Compound	Reporting Limit	Analytical Result
Methyl tert-butyl ether	0.0020	< 0.0020
Benzene	0.0010	<b>0.0025</b>
Toluene	0.0020	< 0.0020
Ethylbenzene	0.0020	<b>0.20</b>
Xylenes, Total	0.0020	< 0.0020
Naphthalene	0.0020	< 0.0020
TPH C6 to C10 (GRO)	0.020	<b>4.8</b>
TPH C11 to C15 (DRO)	0.020	<b>0.13</b>
Surr: 1,2-Dichloroethane-d4	81-143	<b>106</b>
Surr: 4-Bromofluorobenzene	85-115	<b>103</b>
Surr: Dibromofluoromethane	80-124	<b>96.0</b>
Surr: Toluene-d8	80-125	<b>97.3</b>

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Toll Free (888) 263-8686

Fax (801) 263-8687

e-mail: awal@awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## ORGANIC ANALYSIS REPORT

Client: Wasatch Environmental  
Project ID: Gunnison Remediation / 1241-026A

Contact: Les Pennington

**AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES**

Lab Sample ID: L89001-05A  
Field Sample ID: MW-9  
Collected: 2/19/2009 2:20:00 PM  
Received: 2/20/2009

Analyzed: 2/20/2009 2:03:00 PM

Analysis Requested: SW8260B/5030B

### Analytical Results

**8260-W-MBTEXN/TPH**

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = mg/L

Dilution Factor = 1

Compound

Reporting Limit

Analytical  
Result

Methyl tert-butyl ether

0.0020

< 0.0020

Benzene

0.0010

< 0.0010

Toluene

0.0020

< 0.0020

(801) 263-8686

Ethylbenzene

0.0020

< 0.0020

Toll Free (888) 263-8686

Xylenes, Total

0.0020

< 0.0020

Fax (801) 263-8687

Naphthalene

0.0020

< 0.0020

e-mail: awal@awal-labs.com

TPH C6 to C10 (GRO)

0.020

< 0.020

Kyle F. Gross

TPH C11 to C15 (DRO)

0.020

< 0.020

Laboratory Director

Surr: 1,2-Dichloroethane-d4

81-143

103

Surr: 4-Bromofluorobenzene

85-115

105

Jose Rocha

Surr: Dibromofluoromethane

80-124

98.3

QA Officer

Surr: Toluene-d8

80-125

102

Report Date: 3/2/2009 Page 6 of 21

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## ORGANIC ANALYSIS REPORT

Client: Wasatch Environmental  
Project ID: Gunnison Remediation / 1241-026A

Contact: Les Pennington

**AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES**

Lab Sample ID: L89001-06A  
Field Sample ID: MW-14  
Collected: 2/19/2009 2:30:00 PM  
Received: 2/20/2009

Analyzed: 2/23/2009 12:50:00 PM

Analysis Requested: SW8260B/5030B

### Analytical Results

**8260-W-MBTEXN/TPH**

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = mg/L  
Dilution Factor = 1

Compound	Reporting Limit	Analytical Result
Methyl tert-butyl ether	0.0020	< 0.0020
Benzene	0.0010	< 0.0010
Toluene	0.0020	< 0.0020
Ethylbenzene	0.0020	< 0.0020
Xylenes, Total	0.0020	< 0.0020
Naphthalene	0.0020	< 0.0020
TPH C6 to C10 (GRO)	0.020	< 0.020
TPH C11 to C15 (DRO)	0.020	< 0.020
Surr: 1,2-Dichloroethane-d4	81-143	107
Surr: 4-Bromofluorobenzene	85-115	104
Surr: Dibromofluoromethane	80-124	98.7
Surr: Toluene-d8	80-125	102

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Fax (801) 263-8687

e-mail: awal@awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Report Date: 3/2/2009 Page 7 of 21



## ORGANIC ANALYSIS REPORT

Client: Wasatch Environmental  
Project ID: Gunnison Remediation / 1241-026A

Contact: Les Pennington

**AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES**

Lab Sample ID: L89001-07A  
Field Sample ID: MW-17  
Collected: 2/19/2009 2:25:00 PM  
Received: 2/20/2009

Analyzed: 2/20/2009 2:55:00 PM

Analysis Requested: SW8260B/5030B

### Analytical Results

**8260-W-MBTEXN/TPH**

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = mg/L

Dilution Factor = 1

Compound

Reporting Limit

Analytical  
Result

Methyl tert-butyl ether

0.0020

< 0.0020

Benzene

0.0010

< 0.0010

Toluene

0.0020

< 0.0020

(801) 263-8686

Ethylbenzene

0.0020

< 0.0020

Toll Free (888) 263-8686

Xylenes, Total

0.0020

< 0.0020

Fax (801) 263-8687

Naphthalene

0.0020

< 0.0020

e-mail: awal@awal-labs.com

TPH C6 to C10 (GRO)

0.020

< 0.020

Kyle F. Gross

TPH C11 to C15 (DRO)

0.020

< 0.020

Laboratory Director

Surr: 1,2-Dichloroethane-d4

81-143

102

Surr: 4-Bromofluorobenzene

85-115

105

Jose Rocha

Surr: Dibromofluoromethane

80-124

99.8

QA Officer

Surr: Toluene-d8

80-125

102

Report Date: 3/2/2009 Page 8 of 21

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## ORGANIC ANALYSIS REPORT

Client: Wasatch Environmental  
Project ID: Gunnison Remediation / 1241-026A

Contact: Les Pennington

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Lab Sample ID: L89001-08A  
Field Sample ID: MW-19  
Collected: 2/19/2009 9:45:00 AM  
Received: 2/20/2009

Analyzed: 2/20/2009 3:20:00 PM

Analysis Requested: SW8260B/5030B

### Analytical Results

**8260-W-MBTEXN/TPH**

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = mg/L

Dilution Factor = 1

Compound

Reporting Limit

Analytical  
Result

Methyl tert-butyl ether

0.0020

< 0.0020

Benzene

0.0010

< 0.0010

Toluene

0.0020

< 0.0020

(801) 263-8686

Ethylbenzene

0.0020

< 0.0020

Toll Free (888) 263-8686

Xylenes, Total

0.0020

< 0.0020

Fax (801) 263-8687

Naphthalene

0.0020

< 0.0020

e-mail: awal@awal-labs.com

TPH C6 to C10 (GRO)

0.020

< 0.020

Kyle F. Gross

TPH C11 to C15 (DRO)

0.020

< 0.020

Laboratory Director

Surr: 1,2-Dichloroethane-d4

81-143

105

Surr: 4-Bromofluorobenzene

85-115

104

Jose Rocha

Surr: Dibromofluoromethane

80-124

100

QA Officer

Surr: Toluene-d8

80-125

99.9



ORGANIC ANALYSIS REPORT

Client: Wasatch Environmental  
Project ID: Gunnison Remediation / 1241-026A

Contact: Les Pennington

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Lab Sample ID: L89001-09A  
Field Sample ID: MW-20  
Collected: 2/19/2009 9:55:00 AM  
Received: 2/20/2009

Analyzed: 2/20/2009 3:46:00 PM

Analysis Requested: SW8260B/5030B

**Analytical Results**

**8260-W-MBTEXN/TPH**

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = mg/L  
Dilution Factor = 1

Compound	Reporting Limit	Analytical Result	
Methyl tert-butyl ether	0.0020	< 0.0020	
Benzene	0.050	2.6	D
Toluene	0.0020	0.068	
Ethylbenzene	0.10	0.60	D
Xylenes, Total	0.10	0.72	§
Naphthalene	0.10	0.16	D
TPH C6 to C10 (GRO)	0.020	14	
TPH C11 to C15 (DRO)	0.020	0.17	
Surr: 1,2-Dichloroethane-d4	81-143	105	
Surr: 4-Bromofluorobenzene	85-115	90.2	
Surr: Dibromofluoromethane	80-124	88.8	
Surr: Toluene-d8	80-125	91.7	

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e-mail: awal@awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

*D - This analyte was obtained from a 1:50 dilution.*

*§ - One or more constituents of this analyte were obtained from a 1:50 dilution.*



## ORGANIC ANALYSIS REPORT

Client: Wasatch Environmental  
Project ID: Gunnison Remediation / 1241-026A

Contact: Les Pennington

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Lab Sample ID: L89001-10A  
Field Sample ID: MW-21  
Collected: 2/19/2009 10:35:00 AM  
Received: 2/20/2009

Analyzed: 2/23/2009 10:43:00 PM

Analysis Requested: SW8260B/5030B

### Analytical Results

**8260-W-MBTEXN/TPH**

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = mg/L

Dilution Factor = 1

Compound

Reporting Limit

Analytical  
Result

Methyl tert-butyl ether

0.0020

< 0.0020

Benzene

0.0010

< 0.0010

Toluene

0.0020

**0.0025**

(801) 263-8686

Ethylbenzene

0.0020

< 0.0020

Toll Free (888) 263-8686

Xylenes, Total

0.0020

< 0.0020

Fax (801) 263-8687

Naphthalene

0.0020

< 0.0020

e-mail: awal@awal-labs.com

TPH C6 to C10 (GRO)

0.020

< 0.020

Kyle F. Gross

TPH C11 to C15 (DRO)

0.020

< 0.020

Laboratory Director

Surr: 1,2-Dichloroethane-d4

81-143

**101**

Surr: 4-Bromofluorobenzene

85-115

**111**

Jose Rocha

Surr: Dibromofluoromethane

80-124

**98.2**

QA Officer

Surr: Toluene-d8

80-125

**102**



## ORGANIC ANALYSIS REPORT

Client: Wasatch Environmental  
Project ID: Gunnison Remediation / 1241-026A

Contact: Les Pennington

**AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES**

Lab Sample ID: L89001-11A  
Field Sample ID: MW-22  
Collected: 2/19/2009 12:00:00 PM  
Received: 2/20/2009

Analyzed: 2/23/2009 2:07:00 PM

Analysis Requested: SW8260B/5030B

### Analytical Results

### 8260-W-MBTEXN/TPH

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = mg/L

Dilution Factor = 1

Compound

Reporting Limit

Analytical  
Result

Methyl tert-butyl ether

0.0020

< 0.0020

Benzene

0.010

0.21 D

Toluene

0.0020

0.0069

(801) 263-8686

Ethylbenzene

0.0020

0.0030

Toll Free (888) 263-8686

Xylenes, Total

0.0020

0.0040

Fax (801) 263-8687

Naphthalene

0.0020

0.0094

e-mail: awal@awal-labs.com

TPH C6 to C10 (GRO)

0.020

2.3

Kyle F. Gross

TPH C11 to C15 (DRO)

0.020

0.034

Laboratory Director

Surr: 1,2-Dichloroethane-d4

81-143

110

Surr: 4-Bromofluorobenzene

85-115

102

Jose Rocha

Surr: Dibromofluoromethane

80-124

98.2

QA Officer

Surr: Toluene-d8

80-125

99.9

*D - This analyte was obtained from a 1:10 dilution.*



## ORGANIC ANALYSIS REPORT

Client: Wasatch Environmental  
Project ID: Gunnison Remediation / 1241-026A

Contact: Les Pennington

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Lab Sample ID: L89001-12A  
Field Sample ID: MW-23  
Collected: 2/19/2009 11:49:00 AM  
Received: 2/20/2009

Analyzed: 2/23/2009 3:23:00 PM

Analysis Requested: SW8260B/5030B

### Analytical Results

**8260-W-MBTEXN/TPH**

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = mg/L

Dilution Factor = 20

Compound

Reporting Limit

Analytical  
Result

Methyl tert-butyl ether

0.040

< 0.040

Benzene

0.020

1.3

Toluene

0.040

0.091

(801) 263-8686

Ethylbenzene

0.040

1.6

Toll Free (888) 263-8686

Xylenes, Total

0.040

2.9

Fax (801) 263-8687

Naphthalene

0.040

0.49

e-mail: awal@awal-labs.com

TPH C6 to C10 (GRO)

0.40

16

Kyle F. Gross

TPH C11 to C15 (DRO)

0.40

< 0.40

Laboratory Director

Surr: 1,2-Dichloroethane-d4

81-143

109

Surr: 4-Bromofluorobenzene

85-115

103

Jose Rocha

Surr: Dibromofluoromethane

80-124

99.1

QA Officer

Surr: Toluene-d8

80-125

98.6

*The reporting limits were raised due to high analyte concentrations.*



## ORGANIC ANALYSIS REPORT

Client: Wasatch Environmental  
Project ID: Gunnison Remediation / 1241-026A

Contact: Les Pennington

AMERICAN Lab Sample ID: L89001-13A  
WEST Field Sample ID: MW-24  
ANALYTICAL Collected: 2/19/2009 11:57:00 AM  
LABORATORIES Received: 2/20/2009

Analyzed: 2/23/2009 1:41:00 PM

Analysis Requested: SW8260B/5030B

### Analytical Results

**8260-W-MBTEXN/TPH**

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = mg/L

Dilution Factor = 1

Compound

Reporting Limit

Analytical  
Result

Methyl tert-butyl ether

0.0020

< 0.0020

Benzene

0.0010

< 0.0010

Toluene

0.0020

< 0.0020

(801) 263-8686

Ethylbenzene

0.0020

< 0.0020

Toll Free (888) 263-8686

Xylenes, Total

0.0020

< 0.0020

Fax (801) 263-8687

Naphthalene

0.0020

< 0.0020

e-mail: awal@awal-labs.com

TPH C6 to C10 (GRO)

0.020

< 0.020

TPH C11 to C15 (DRO)

0.020

< 0.020

Kyle F. Gross  
Laboratory Director

Surr: 1,2-Dichloroethane-d4

81-143

110

Surr: 4-Bromofluorobenzene

85-115

104

Surr: Dibromofluoromethane

80-124

100

Jose Rocha  
QA Officer

Surr: Toluene-d8

80-125

101

Report Date: 3/2/2009 Page 14 of 21

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## ORGANIC ANALYSIS REPORT

Client: Wasatch Environmental  
Project ID: Gunnison Remediation / 1241-026A

Contact: Les Pennington

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Lab Sample ID: L89001-14A  
Field Sample ID: MW-25  
Collected: 2/19/2009 2:15:00 PM  
Received: 2/20/2009

Analyzed: 2/20/2009 5:54:00 PM

Analysis Requested: SW8260B/5030B

### Analytical Results

**8260-W-MBTEXN/TPH**

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = mg/L

Dilution Factor = 1

Compound

Reporting Limit

Analytical  
Result

Methyl tert-butyl ether

0.0020

< 0.0020

Benzene

0.010

0.19 D

Toluene

0.0020

0.012 D

(801) 263-8686

Ethylbenzene

0.020

0.28 D

Toll Free (888) 263-8686

Xylenes, Total

0.0020

0.25 D

Fax (801) 263-8687

Naphthalene

0.020

0.12 D

e-mail: awal@awal-labs.com

TPH C6 to C10 (GRO)

0.020

13

Kyle F. Gross

TPH C11 to C15 (DRO)

0.020

0.22

Laboratory Director

Surr: 1,2-Dichloroethane-d4

81-143

101

Surr: 4-Bromofluorobenzene

85-115

101

Jose Rocha

Surr: Dibromofluoromethane

80-124

94.5

QA Officer

Surr: Toluene-d8

80-125

96.0

*D - This analyte was obtained from a 1:10 dilution.*



ORGANIC ANALYSIS REPORT

Client: Wasatch Environmental  
Project ID: Gunnison Remediation / 1241-026A

Contact: Les Pennington

AMERICAN Lab Sample ID: L89001-15A  
WEST Field Sample ID: MW-26  
ANALYTICAL Collected: 2/19/2009 11:23:00 AM  
LABORATORIES Received: 2/20/2009

Analyzed: 2/23/2009 4:40:00 PM

Analysis Requested: SW8260B/5030B

**Analytical Results**

**8260-W-MBTEXN/TPH**

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = mg/L  
Dilution Factor = 10

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Toll Free (888) 263-8686  
Fax (801) 263-8687  
e-mail: awal@awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

Compound	Reporting Limit	Analytical Result
Methyl tert-butyl ether	0.020	< 0.020
Benzene	0.010	1.2
Toluene	0.020	0.064
Ethylbenzene	0.020	0.71
Xylenes, Total	0.020	1.0
Naphthalene	0.020	0.62
TPH C6 to C10 (GRO)	0.20	9.9
TPH C11 to C15 (DRO)	0.20	0.57
Surr: 1,2-Dichloroethane-d4	81-143	111
Surr: 4-Bromofluorobenzene	85-115	100
Surr: Dibromofluoromethane	80-124	99.6
Surr: Toluene-d8	80-125	99.1

*The reporting limits were raised due to high analyte concentrations.*



## ORGANIC ANALYSIS REPORT

Client: Wasatch Environmental  
Project ID: Gunnison Remediation / 1241-026A

Contact: Les Pennington

AMERICAN Lab Sample ID: L89001-16A  
WEST Field Sample ID: MW-27  
ANALYTICAL Collected: 2/19/2009 11:34:00 AM  
LABORATORIES Received: 2/20/2009

Analyzed: 2/24/2009 3:25:00 AM

Analysis Requested: SW8260B/5030B

### Analytical Results

**8260-W-MBTEXN/TPH**

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = mg/L  
Dilution Factor = 200

Compound	Reporting Limit	Analytical Result
Methyl tert-butyl ether	0.40	< 0.40
Benzene	0.20	35
Toluene	2.0	41 D
Ethylbenzene	0.40	3.2
Xylenes, Total	0.40	21
Naphthalene	0.40	< 0.40
TPH C6 to C10 (GRO)	4.0	100
TPH C11 to C15 (DRO)	4.0	< 4.0
Surr: 1,2-Dichloroethane-d4	81-143	104
Surr: 4-Bromofluorobenzene	85-115	103
Surr: Dibromofluoromethane	80-124	97.5
Surr: Toluene-d8	80-125	101

(801) 263-8686  
Toll Free (888) 263-8686  
Fax (801) 263-8687  
e-mail: awal@awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer

*D - This analyte was obtained from a 1:1000 dilution.  
The reporting limits were raised due to high analyte concentrations.*



## ORGANIC ANALYSIS REPORT

Client: Wasatch Environmental  
Project ID: Gunnison Remediation / 1241-026A

Contact: Les Pennington

**AMERICAN WEST ANALYTICAL LABORATORIES**  
Lab Sample ID: L89001-17A  
Field Sample ID: MW-28  
Collected: 2/19/2009 11:40:00 AM  
Received: 2/20/2009

Analyzed: 2/24/2009 2:08:00 AM

Analysis Requested: SW8260B/5030B

### Analytical Results

**8260-W-MBTEXN/TPH**

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = mg/L  
Dilution Factor = 1

Compound	Reporting Limit	Analytical Result
Methyl tert-butyl ether	0.0020	< 0.0020
Benzene	0.0010	< 0.0010
Toluene	0.0020	< 0.0020
Ethylbenzene	0.0020	< 0.0020
Xylenes, Total	0.0020	< 0.0020
Naphthalene	0.0020	< 0.0020
TPH C6 to C10 (GRO)	0.020	< 0.020
TPH C11 to C15 (DRO)	0.020	< 0.020
Surr: 1,2-Dichloroethane-d4	81-143	101
Surr: 4-Bromofluorobenzene	85-115	105
Surr: Dibromofluoromethane	80-124	98.8
Surr: Toluene-d8	80-125	101

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e-mail: awal@awal-labs.com

Kyle F. Gross  
Laboratory Director

Jose Rocha  
QA Officer



## ORGANIC ANALYSIS REPORT

Client: Wasatch Environmental  
Project ID: Gunnison Remediation / 1241-026A

Contact: Les Pennington

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Lab Sample ID: L89001-18A  
Field Sample ID: MW-29  
Collected: 2/19/2009 2:41:00 PM  
Received: 2/20/2009

Analyzed: 2/24/2009 3:50:00 AM

Analysis Requested: SW8260B/5030B

### Analytical Results

**8260-W-MBTEXN/TPH**

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = mg/L

Dilution Factor = 10

Compound

Reporting Limit

Analytical

Result

Methyl tert-butyl ether	0.020	< 0.020
Benzene	0.010	0.022
Toluene	0.020	< 0.020
Ethylbenzene	0.020	0.24
Xylenes, Total	0.020	0.55
Naphthalene	0.020	0.22
TPH C6 to C10 (GRO)	0.20	11
TPH C11 to C15 (DRO)	0.20	0.41
Surr: 1,2-Dichloroethane-d4	81-143	102
Surr: 4-Bromofluorobenzene	85-115	101
Surr: Dibromofluoromethane	80-124	97.9
Surr: Toluene-d8	80-125	102

*The reporting limits were raised due to high analyte concentrations.*

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# ORGANIC ANALYSIS REPORT

Client: Wasatch Environmental  
Project ID: Gunnison Remediation / 1241-026A

Contact: Les Pennington

**AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES**

Lab Sample ID: L89001-19A  
Field Sample ID: MW-30  
Collected: 2/19/2009 1:30:00 PM  
Received: 2/20/2009

Analyzed: 2/23/2009 10:16:00 A

Analysis Requested: SW8260B/5030B

## Analytical Results

**8260-W-MBTEXN/TPH**

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = mg/L  
Dilution Factor = 1

Compound	Reporting Limit	Analytical Result
Methyl tert-butyl ether	0.0020	< 0.0020
Benzene	0.0010	< 0.0010
Toluene	0.0020	< 0.0020
Ethylbenzene	0.0020	< 0.0020
Xylenes, Total	0.0020	< 0.0020
Naphthalene	0.0020	< 0.0020
TPH C6 to C10 (GRO)	0.020	< 0.020
TPH C11 to C15 (DRO)	0.020	< 0.020
Surr: 1,2-Dichloroethane-d4	81-143	107
Surr: 4-Bromofluorobenzene	85-115	103
Surr: Dibromofluoromethane	80-124	99.8
Surr: Toluene-d8	80-125	102

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Jose Rocha  
QA Officer



## ORGANIC ANALYSIS REPORT

Client: Wasatch Environmental  
Project ID: Gunnison Remediation / 1241-026A

Contact: Les Pennington

AMERICAN  
WEST  
ANALYTICAL  
LABORATORIES

Lab Sample ID: L89001-20A  
Field Sample ID: MW-31  
Collected: 2/19/2009 12:05:00 PM  
Received: 2/20/2009

Analyzed: 2/25/2009 3:16:00 AM

Analysis Requested: SW8260B/5030B

### Analytical Results

**8260-W-MBTEXN/TPH**

463 West 3600 South  
Salt Lake City, Utah  
84115

Units = mg/L

Dilution Factor = 1

Compound

Reporting Limit

Analytical  
Result

Methyl tert-butyl ether	0.0020	< 0.0020
Benzene	0.0010	< 0.0010
Toluene	0.0020	< 0.0020
Ethylbenzene	0.0020	< 0.0020
Xylenes, Total	0.0020	< 0.0020
Naphthalene	0.0020	< 0.0020
TPH C6 to C10 (GRO)	0.020	< 0.020
TPH C11 to C15 (DRO)	0.020	< 0.020
Surr: 1,2-Dichloroethane-d4	81-143	102
Surr: 4-Bromofluorobenzene	85-115	106
Surr: Dibromofluoromethane	80-124	97.4
Surr: Toluene-d8	80-125	101

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Jose Rocha  
QA Officer

# American West Analytical Labs

## WORK ORDER Summary

20-Feb-09

Work Order L89001

Client ID: WAS580  
 Project: Gunnison Remediation / 1241-026A  
 Comments: PA Rush; QCLevel: 1

QC Level: 1  
 Location: *Handwritten: HKS*

Contact: Les Pennington

*Handwritten: emailed 3/3/09*

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage	
L89001-01A	WS-2	2/19/2009 10:15:00 AM	2/20/2009	3/3/2009	Aqueous	8260-W-MBTEXN/TPH	VOCFridge	3
L89001-02A	MW-2	2/18/2009 4:50:00 PM		3/3/2009		8260-W-MBTEXN/TPH	VOCFridge	3
L89001-03A	MW-3	2/18/2009 5:00:00 PM		3/3/2009		8260-W-MBTEXN/TPH	VOCFridge	3
L89001-04A	MW-5	2/18/2009 3:10:00 PM		3/3/2009		8260-W-MBTEXN/TPH	VOCFridge	3
L89001-05A	MW-9	2/19/2009 2:20:00 PM		3/3/2009		8260-W-MBTEXN/TPH	VOCFridge	3
L89001-06A	MW-14	2/19/2009 2:30:00 PM		3/3/2009		8260-W-MBTEXN/TPH	VOCFridge	3
L89001-07A	MW-17	2/19/2009 2:25:00 PM		3/3/2009		8260-W-MBTEXN/TPH	VOCFridge	3
L89001-08A	MW-19	2/19/2009 9:45:00 AM		3/3/2009		8260-W-MBTEXN/TPH	VOCFridge	3
L89001-09A	MW-20	2/19/2009 9:55:00 AM		3/3/2009		8260-W-MBTEXN/TPH	VOCFridge	3
L89001-10A	MW-21	2/19/2009 10:35:00 AM		3/3/2009		8260-W-MBTEXN/TPH	VOCFridge	3
L89001-11A	MW-22	2/19/2009 12:00:00 PM		3/3/2009		8260-W-MBTEXN/TPH	VOCFridge	3
L89001-12A	MW-23	2/19/2009 11:49:00 AM		3/3/2009		8260-W-MBTEXN/TPH	VOCFridge	3
L89001-13A	MW-24	2/19/2009 11:57:00 AM		3/3/2009		8260-W-MBTEXN/TPH	VOCFridge	3
L89001-14A	MW-25	2/19/2009 2:15:00 PM		3/3/2009		8260-W-MBTEXN/TPH	VOCFridge	3
L89001-15A	MW-26	2/19/2009 11:23:00 AM		3/3/2009		8260-W-MBTEXN/TPH	VOCFridge	3
L89001-16A	MW-27	2/19/2009 11:34:00 AM		3/3/2009		8260-W-MBTEXN/TPH	VOCFridge	3
L89001-17A	MW-28	2/19/2009 11:40:00 AM		3/3/2009		8260-W-MBTEXN/TPH	VOCFridge	3
L89001-18A	MW-29	2/19/2009 2:41:00 PM		3/3/2009		8260-W-MBTEXN/TPH	VOCFridge	3
L89001-19A	MW-30	2/19/2009 1:30:00 PM		3/3/2009		8260-W-MBTEXN/TPH	VOCFridge	3
L89001-20A	MW-31	2/19/2009 12:05:00 PM		3/3/2009		8260-W-MBTEXN/TPH	VOCFridge	3



Client Wasatch Environmental  
 Address 2410 W California Ave  
SLC UT 84104  
 City State Zip

Phone 801-972-8400 Fax 801-972-8459

Contact Les Pennington

E-mail lp@wasatch-environmental.com

Project Name Gunnison Remediation

Project Number/P.O.# 1241-026A

Sampler Name Troy Smith



AMERICAN WEST ANALYTICAL LABORATORIES  
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**CHAIN OF CUSTODY**

Lab Sample Set # 89001  
 Page 2 of 2

Turn Around Time (Circle One)

1 day 2 day 3 day 4 day 5 day Standard

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	TPH	MBTEXN (\$260)	QC LEVEL			COMMENTS
						1	2	2+	
MW-24	2-19-09 11:57	W	3	✓	✓				
MW-25	2-19-09 14:15	W	3	✓	✓				
MW-26	2-19-09 11:23	W	3	✓	✓				
MW-27	2-19-09 11:34	W	3	✓	✓				
MW-28	2-19-09 11:40	W	3	✓	✓				
MW-29	2-19-09 14:41	W	3	✓	✓				
MW-30	2-19-09 13:30	W	3	✓	✓				
MW-31	2-19-09 12:05	W	3	✓	✓				

LABORATORY USE ONLY

- SAMPLES WERE:
- Shipped or hand delivered  
Notes:
  - Ambient or Chilled  
Notes:
  - Temperature 6.2°
  - Received Broken/Leaking (Improperly Sealed)  
Y N  
Notes:
  - Properly Preserved  
Y N  
Notes:
  - Received Within Holding Times  
Y N  
Notes:

COC Tape Was:

- Present on Outer Package  
Y N NA
- Unbroken on Outer Package  
Y N NA
- Present on Sample  
Y N NA
- Unbroken on Sample  
Y N NA  
Notes:

Discrepancies Between Sample Labels and COC Record?  
Y N  
Notes:

Relinquished By: Signature <u>Troy Smith</u>	Date <u>2-20-09</u>	Received By: Signature <u>Denise Bruun</u>
PRINT NAME <u>Troy Smith</u>	Time <u>8:41</u>	PRINT NAME <u>Denise Bruun</u>
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME

Special Instructions:

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