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REPORTS

YEAR(S):

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AES Animas Environmental Services, LLC

624 E. Comanche . Farmington, NM 87401 . TEL 505-564-2281 . FAX 505-324-2022 . www.animasenvironmental.com

GW-55

February 13, 2012

Glenn von Gonten
Edward Hansen
New Mexico Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505

RE: 4th Quarter Remedial Progress Report 2011 for the Thriftway Refinery, 626 County Road 5500, Bloomfield, New Mexico

Dear Mr. von Gonten and Mr. Hansen:

Animas Environmental Services, LLC (AES) has prepared this 4th Quarter 2011 (Year 2) Remedial Progress Report detailing remedial activities conducted on behalf of Thriftway Company (Thriftway) for the former Thriftway Refinery, located at 626 County Road 5500, Bloomfield, San Juan County, New Mexico. The remedial activities are being conducted in accordance with New Mexico Oil Conservation Division (NMOCD) and New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB) regulations.

This progress report details groundwater monitoring and gauging activities, multi-phase extraction (MPE) remediation system operations, and phytoremediation activities conducted at the site between October and December 2011. A General Site Plan is included as Figure 1.

1.0 Groundwater Monitoring and Gauging

BioTech conducted groundwater monitoring and gauging of the monitor wells at the site on November 15 and 16, 2011. Sampling of selected groundwater monitor wells occurred on November 17 and 22, 2011. Based on the current sampling plan, monitoring and gauging events occur during the first and third quarters of 2011, with groundwater sampling scheduled during the second and fourth quarters. The information below lists wells that were gauged and sampled during the November 2011 event.

Year 2 Quarter #4 Monitor Well Gauging and Sampling List

Well Name	Gauging Only	Gauging and Sampling
TW-1 through TW-6	X	
TW-7		X
TW-8	X	
TW-9 through TW-10	X	
TW-11		X
TW-12	X	
TW-13* and TW-14*	X	
TW-15 through TW-17	X	
TW-18		X
TW-19* and TW-20*	X	
TW-22*	X	
TW-23	X	
TW-24 through TW-26 (all*)	X	
TW-28* and TW-29*	X	
TW-30 and TW-31		X
TW-32* and TW-33*	X	
TW-34 and TW-35		X
TW-36*	X	
TW-37		X
TW-38*	X	
TW-39		X
TW-40*	X	
TW-41 throughTW-43		X
TW-44*		
TW-45	X	
TW-46 and TW-47		X
TW-48 and TW-49	X	
TW-50		X
MW-5 and MW-7	X	
MW-20 and MW-21		X
* During November 2011, these wells contained free product (including sheen of free product) and were not sampled.		

1.1 Measurement of Groundwater Elevations

Depth to groundwater in each of the selected wells was measured with an electronic water level indicator, which has an accuracy of 0.01 feet. Depth to groundwater measurements were recorded on Water Sample Collection Forms. Electronic copies of the Water Sample Collection Forms are included in Appendix A.

1.2 Measurement of Free Product

Each well previously known to contain light non-aqueous phase liquid (LNAPL, or "free product") was measured with an electronic interface probe, and the depths to the top of product and the oil/water interface were recorded on a groundwater measurement form. Free product was measured in November 2011 in 16 wells, including TW-13, TW-14, TW-19, TW-20, TW-22, TW-24, TW-25, TW-26, TW-28, TW-29, TW-32, TW-33, TW-36, TW-38, TW-40, and TW-44.

In monitor wells containing free product, corrected groundwater elevations (Hc) were determined using the following formula:

$$H_c = H_m + (H_o * (\rho_o/\rho_w))$$

where:
H_m is the measured elevation of the hydrocarbon-water interface (ft)
H_o is the thickness of the hydrocarbon layer (ft)
ρ_o is the hydrocarbon density of diesel, assumed to be 0.827 (g/ml) (API, 1986)
ρ_w is the water density, assumed to be 1.0 (g/mL)

1.3 Groundwater Sampling

Once the depth to groundwater was measured in each well to be sampled, the well was purged with a new disposable bailer to remove stagnant water from the well. Groundwater samples were then collected. Groundwater sampling procedures included the following:

1. A new disposable bailer was used at each well. Samples were collected using a slow release valve attached to the bottom of the bailer (to ensure a slow flow and less volatilization of contaminants from groundwater). Each sample container was filled completely, ensuring there were no bubbles or headspace in the sample bottles.

2. Each bottle was labeled, and chain-of-custody documentation was filled out as each well was sampled. Clean sample containers, obtained from the analyzing laboratory, were utilized during the sampling events.

3. Samples were placed in an insulated cooler and maintained at temperature below 6°C during transportation to Hall Environmental Analysis Laboratory (Hall), Albuquerque, New Mexico.

In order to reduce the potential for cross-contamination, groundwater samples were collected in the order from the least contaminated sampling location to the most contaminated sampling location, as determined by the previous sampling event.

1.4 Equipment Decontamination Protocols

In order to ensure data validity and limit cross-contamination, the following decontamination protocols for sampling equipment were employed:

- Wash with detergent (Alconox) and warm water
- Rinse with warm water
- Wash with detergent (Alconox) and warm water
- Rinse with de-ionized water

1.5 Laboratory Analyses

Samples collected from monitor wells TW-11, TW-31, TW-37, TW-39, TW-42, TW-43, TW-46, MW-20, and MW-21 were analyzed for the following:

- Total Petroleum Hydrocarbons (TPH) for Gasoline Range Organics (GRO), Motor Oil Range Organics (MRO), and Diesel Range Organics (DRO) per U.S. Environmental Protection Agency (USEPA) Method 8015B;
- Benzene, Toluene, Ethylbenzene, Xylenes (BTEX), Methyl-t-Butyl Ether (MTBE), and Naphthalene per USEPA Method 8260;

Samples collected from monitor wells TW-7, TW-18, TW-30, TW-34, TW-35, TW-41, TW-47, and TW-50 were analyzed for the following:

- TPH for GRO, MRO, and DRO per USEPA Method 8015B;
- BTEX, MTBE, and Naphthalene per USEPA Method 8260;
- RCRA 8 Metals per USEPA Method 6010 and 7470;
- Dissolved Metals (Calcium, Magnesium, Potassium, and Sodium) per USEPA Method 6010;
- Bromide, Chloride, Fluoride, and Sulfate per USEPA Method 300.0;
- Hardness as $CaCO_3$ per USEPA Method 6010;
- Total Dissolved Solids (TDS) per Standard Method 2540C; and
- Specific Conductance per USEPA Method 120.1.

All samples were analyzed at Hall Laboratories in Albuquerque, New Mexico.

2.0 Groundwater Monitoring Results

2.1 Hydraulic Gradient and Water Quality Data

2.1.1 Hydraulic Gradient

Using surveyed top of casing (TOC) elevations and the recorded groundwater depths, AES determined specific groundwater elevations, relative to sea level, for each well measured. Groundwater elevations across the site in November 2011 ranged from 5,423.33 feet above mean sea level (AMSL) in MW-5 to 5,440.47 feet AMSL in TW-1. Groundwater elevations have increased across the site by an average of 0.05 feet since the last sampling event in August 2011. Groundwater gradient was calculated between TW-1 and MW-5, with a magnitude of 0.008 ft/ft to the northwest for November 2011. The groundwater flow direction has remained stable, in a northwesterly direction, and is consistent with historical site data.

Table 1 includes depth to groundwater measurements and elevations. Groundwater elevation contours for November 2011 are included on Figure 2. Electronic copies of the Water Sample Collection Forms are included in Appendix A.

2.1.2 Water Quality Data

During the purging of each well prior to sampling, water quality data was recorded until temperature, pH, conductivity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) measurements stabilized. Recorded temperatures during the November 2011 sampling event ranged from 11.31°C in TW-7 to 16.56°C in TW-50. Groundwater pH ranged between 7.16 (MW-21) and 7.39 (TW-46), and conductivity readings were between 3.321 mS/cm in TW-7 and 12.17 mS in TW-47. Dissolved oxygen concentrations ranged from 0.35 mg/L in TW-50 to 2.92 mg/L in TW-11. ORP ranged from -33.2 mV (TW-46) to -20.1 mV (MW-21).

2.2 Free Product

Free product was measured in 16 monitor wells, including TW-13, TW-14, TW-19, TW-20, TW-22, TW-24 through TW-26, TW-28, TW-29, TW-32, TW-33, TW-36, TW-38, TW-40, and TW-44. Measured LNAPL thicknesses ranged from 0.11 feet (TW-24) to 1.96 feet (TW-20). Free product thickness contours for November 2011 are presented in Figure 3, and Graph 1 includes free product thicknesses over time in the eastern portion of the product plume (TW-13, TW-14, TW-19, and TW-22).

2.3 Dissolved Phase Contaminant Concentrations

2.3.1 Volatile Organics

Dissolved phase benzene concentrations outside the area of free product exceeded the New Mexico Water Quality Control Commission (WQCC) standard of 10 µg/L in two of the 18 wells sampled, TW-37 (210 µg/L) and TW-41 (110 µg/L). Dissolved phase benzene concentration contours for November 2011 are included on Figure 4.

Toluene and ethylbenzene concentrations outside the area of free product were below laboratory detection limits or below the applicable WQCC standards of 750 µg/L in all sampled wells. Xylene concentrations were also below laboratory detection limits or below the applicable WQCC standard of 620 µg/L in all wells sampled, with the exception of TW-41 (1,800 µg/L).

Dissolved phase MTBE concentrations outside the area of free product were above the WQCC standard of 100 µg/L in four of the wells sampled in November 2011, including TW-37 (110 µg/L) and TW-43 (460 µg/L), TW-45 (630 µg/L),and MW-20 (170 µg/L). All other wells were either below the laboratory detection limits (1.0 µg/L and 5.0 µg/L) or below applicable WQCC standards. MTBE concentration contours for November 2011 are included on Figure 5.

Dissolved phase total naphthalene concentrations outside the area of free product were above the WQCC standard of 30 µg/L in one well, TW-41 (68 µg/L). The remaining wells sampled were either below laboratory detection limits or below the applicable WQCC standard.

BTEX, MTBE, and total naphthalene analytical data are summarized in Table 2, and electronic copies of laboratory analytical reports are presented in Appendix A.

2.3.2 Geochemical Parameters

Geochemical analytical results from November 2011 are as follows:

- RCRA 8 Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) were reported below the laboratory detection limit or the below the applicable WQCC standards in all sampled wells. Laboratory analytical results are presented in Table 3, and analytical reports are included in Appendix A.

- Dissolved calcium concentrations ranged from 230 mg/L (TW-41) to 670 mg/L (TW-30);

- Dissolved magnesium concentrations ranged from 49 mg/L (TW-18) to 120 mg/L (TW-47);
- Dissolved potassium concentrations ranged from 2.3 mg/L (TW-7) to 9.3 mg/L (TW-30);
- Dissolved sodium concentrations ranged from 770 mg/L (TW-7) to 2,700 mg/L (TW-47);
- Bromide concentrations ranged from 0.26 mg/L (TW-18) to 3.1 mg/L (TW-30);
- Chloride concentrations were reported above the WQCC standard of 250 mg/L in TW-30 (1,400 mg/L), TW-41 (640 mg/L), TW-47 (1,800 mg/L), and TW-50 (990 mg/L);
- Fluoride concentrations remained below the WQCC of 1.6 mg/L in all sampled wells;
- Sulfate concentrations were reported above the WQCC standard of 600 mg/L in all sampled wells, with the exception of TW-41. Reported sulfate concentrations ranged from 1,100 mg/L (TW-50) to 5,800 mg/L (TW-47);
- Specific conductance in the sampled wells ranged from 4,300 µmhos/cm to 19,000 µmhos/cm;
- Hardness as $CaCO_3$ ranged from 890 mg/L (TW-41) and 2,000 mg/L (TW-47);
- TDS concentrations were above the WQCC standard of 1,000 mg/L in all wells sampled, with the highest TDS concentrations detected in TW-47 (10,700 mg/L).

Groundwater geochemical results have been summarized in Table 4. Electronic copies of laboratory analytical reports are included in Appendix A

3.0 Measurement of Groundwater and Free Product in MPE Wells

BioTech personnel measured depth to groundwater in the Phase 1, 2, and 3 MPE wells on November 10 and 15, 2011. Depth to water ranged from 14.30 feet below TOC in MPE-56 to 24.14 feet below TOC in MPE-26. On November 10 and 15, 2011, measured free

product thickness ranged from 0.02 feet in MPE-37 to 1.12 feet in MPE-44. MPE well data are included in Table 5.

4.0 MPE Remediation System Operations

The MPE remediation system was brought online on March 10, 2010. The MPE system consists of an RSI internal combustion engine (ICE) unit with two engines (Engine #1 and Engine #2) to extract soil vapors and free product from the MPE extractions wells.

Both Engine #1 and Engine #2 were shut-down during September 2010 due to extensive mechanical problems, and as a result no data report has been generated since September 2010. Following an engine rebuild, Engine #2 was installed at the site on January 4, 2011. Engine #2 operated at the site from January 4, 2011, until June 23, 2011, when the engine was taken off-line as part of pulsing of the remediation system. The system remained off-line during the fourth quarter 2011. A total of 19,157 lbs of petroleum hydrocarbons have been removed from the site to date.

4.1 Air Emissions Sampling

The site remained in pulse mode during the fourth quarter. At this time, the MPE unit was not in operation, and therefore, no air sample was collected.

5.0 Phytoremediation Project

BioTech operated the irrigation system through mid-September when it was turned off and drained in anticipation for the upcoming winter season. Plants in the phytoremediation project have entered into winter dormancy state. A full update on the survival rate will be included in the second quarter 2012 report. No New Mexico State University plant inspections were conducted during the fourth quarter of 2011.

6.0 Summary and Conclusions

BioTech Remediation completed groundwater monitoring and gauging at the site in November 2011. Groundwater elevations in November 2011 increased by an average of 0.05 feet since August 2011 and are consistent with historical seasonal fluctuations. The

groundwater gradient was calculated to be approximately 0.008 ft/ft in a northwest direction across the site, which is also consistent with historical site data.

In November 2011, free product was observed and measured in 16 monitor wells, including TW-13, TW-14, TW-19, TW-20, TW-22, TW-24 through TW-26, TW-28, TW-29, TW-32, TW-33, TW-36, TW-38, TW-40, and TW-44. Measured thicknesses ranged from 0.11 feet (TW-24) and 1.96 feet (TW-20). Free product was also observed in remediation wells MPE-2, MPE-5, MPE-6, MPE-13, MPE-14, MPE-26, MPE-35 through MPE-38, MPE-44, MPE-45, MPE-47, MPE-50, and MPE-52 through MPE-54.

Based upon the analytical results for the November 2011 sampling event, dissolved phase contaminant concentrations of benzene, xylenes, MTBE, and TDS exceeded the New Mexico WQCC standards in several wells. The highest benzene concentration was reported at 210 µg/L in TW-37. Xylene concentrations above the applicable WQCC standard of 620 µg/L was reported in TW-41 (1,800 µg/L). The highest dissolved phase MTBE concentration was detected in TW-45 (630 µg/L). Monitor well TW-41 exceeded the WQCC standard for naphthalene with 68 µg/L.

Geochemical data for the November 2011 sampling event showed that chloride concentrations exceeded the WQCC standard of 250 mg/L in four of the eight sampled wells with the highest concentration being reported in TW-47 (1,800 mg/L). All sampled wells, except TW-41, had concentrations of sulfate above the WQCC standard of 600 mg/L, with the highest concentration reported in TW-47 with 5,800 mg/L. All sampled wells exceeded the WQCC standard of 1,000 mg/L for TDS with the highest concentration reported in TW-47 (10,700 mg/L). The groundwater monitor wells at the site have historically shown elevated TDS concentrations, which is attributable to the site's proximity to the Kutz Wash and shallow depth to groundwater.

The MPE remediation unit was installed in March 2010. Both engines (Engine #1 and Engine #2) were operated through mid September 2010, when both were removed from the site for scheduled rebuilds. Engine #2, following an engine rebuild, was installed and turned on at the site on January 4, 2011, and was in operation during the first and second quarters of 2011. A total of **19,157** lbs of petroleum hydrocarbons have been mechanically removed from the site since system startup on March 10, 2010. Engine #2 was taken off-line on June 23, 2011, as part of pulsing of the system. Pulsing of the system continued during the third quarter and fourth quarters of 2011.

7.0 Recommendations and Scheduled Site Activities

The following items are scheduled to occur during the 1st Quarter of 2012:

1. In accordance with the conditions of the Interim Groundwater Sampling Plan approval by NMOCD, the quarterly groundwater and NAPL monitoring and gauging event will be conducted in February.

2. No monitoring activities of the phytoremediation project are scheduled during the first quarter of 2012. Phytoremediation monitoring activities should resume during the second quarter of 2012.

3. Installation of 21 Phase 4 wells (MPE-55 through MPE-75). MPE start-up in Engine #2 is planned for March 2012. Once the MPE unit is in operation, BioTech will collect air emission samples from the well gas influent and from the pre-cat and post-cat sample ports. Air samples will be analyzed for BTEX and MTBE per EPA Method 8021B and EPA Method 8015B GRO.

If you have any questions regarding this report or scheduled site activities, please do not hesitate to contact Ross Kennemer or Elizabeth McNally at (505) 564-2281.

Sincerely,

Deborah Watson

Deborah Watson, Project Manager

Elizabeth McNally

Elizabeth McNally, P.E.
New Mexico Registration #15799

Attachments:

Tables

Table 1.	Summary of Groundwater Measurements and Water Quality Data
Table 2.	Summary of Groundwater Analyticals Results (VOC, Total Petroleum Hydrocarbons, and TDS)
Table 3.	Summary of Groundwater RCRA 8 Metals Analytical Results
Table 4.	Summary of Groundwater Dissolved Cations, Anions, Specific Conductance, Hardness, and Total Dissolved Solids Analytical Results
Table 5.	Summary of Groundwater and Free Product Measurements for Phase 1, 2, and 3 MPE Wells

Figures

Figure 1.	General Site Plan
Figure 2.	Groundwater Elevations, November 2011
Figure 3.	Free Product Thickness Contours, November 2011
Figure 4.	Dissolved Benzene Concentration Contours, November 2011
Figure 5.	Dissolved MTBE Concentration Contours, November 2011

Graphs

Graph 1.	Free Product Thicknesses over Time in TW-13, TW-14, TW-19, and TW-22

Appendices

Appendix A. *Electronic*
Water Sample Collection Forms
Laboratory Analytical Reports Hall #1111806 and #1111901

cc: Robert Moss
Thriftway Company
501 Airport Drive
Farmington, NM 87401

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TABLE 1
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-1	15-Dec-08	5471.58		27.95		5443.63	6.24	2.772	7.51*	14.64	113.8	0.25
TW-1	26-Jan-09	5471.58		30.53		5441.05	NM	NM	NM	NM	NM	NM
TW-1	19-Aug-09	5471.58		30.73		5440.85	7.09	1.795	8.08	16.17	289.1	1.00
TW-1	19-Feb-10	5471.58		30.68		5440.90	NM	NM	NM	NM	NM	NM
TW-1	07-May-10	5471.58		30.43		5441.15	NM	NM	NM	NM	NM	NM
TW-1	18-Aug-10	5471.58		30.64		5440.94	NM	NM	NM	NM	NM	NM
TW-1	15-Nov-10	5471.58		30.88		5440.70	NM	NM	NM	NM	NM	NM
TW-1	17-Feb-11	5471.58		30.74		5440.84	NM	NM	NM	NM	NM	NM
TW-1	17-May-11	5471.58		30.62		5440.96	NM	NM	NM	NM	NM	NM
TW-1	22-Aug-11	5471.58		31.14		5440.44	NM	NM	NM	NM	NM	NM
TW-1	15-Nov-11	5471.58		31.11		5440.47	NM	NM	NM	NM	NM	NM
TW-2	15-Dec-08	5469.31		28.91		5440.40	6.63	4.421	3.60	13.08	125.5	1.25
TW-2	26-Jan-09	5469.31		28.80		5440.51	NM	NM	NM	NM	NM	NM
TW-2	19-Aug-09	5469.31		28.97		5440.34	7.03	2.948	2.68	16.85	291.3	2.00
TW-2	19-Feb-10	5469.31		28.93		5440.38	NM	NM	NM	NM	NM	NM
TW-2	07-May-10	5469.31		28.71		5440.60	NM	NM	NM	NM	NM	NM
TW-2	18-Aug-10	5469.31		28.88		5440.43	NM	NM	NM	NM	NM	NM
TW-2	15-Nov-10	5469.31		29.11		5440.20	NM	NM	NM	NM	NM	NM
TW-2	17-Feb-11	5469.31		28.97		5440.34	NM	NM	NM	NM	NM	NM
TW-2	17-May-11	5469.31		28.85		5440.46	NM	NM	NM	NM	NM	NM
TW-2	22-Aug-11	5469.31		29.34		5439.97	NM	NM	NM	NM	NM	NM
TW-2	15-Nov-11	5469.31		29.33		5439.98	NM	NM	NM	NM	NM	NM
TW-3	15-Dec-08	5468.14		27.99		5440.15	6.63	4.249	2.01	14.44	-1.6	1.25
TW-3	26-Jan-09	5468.14		27.87		5440.27	NM	NM	NM	NM	NM	NM
TW-3	19-Aug-09	5468.14		28.05		5440.09	6.95	4.16	2.120	16.34	289.5	2.50

TABLE 1
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-3	19-Feb-10	5468.14		27.96		5440.18	NM	NM	NM	NM	NM	NM
TW-3	10-May-10	5468.14		27.73		5440.41	NM	NM	NM	NM	NM	NM
TW-3	18-Aug-10	5468.14		27.95		5440.19	NM	NM	NM	NM	NM	NM
TW-3	15-Nov-10	5468.14		28.16		5439.98	NM	NM	NM	NM	NM	NM
TW-3	17-Feb-11	5468.14		28.01		5440.13	NM	NM	NM	NM	NM	NM
TW-3	17-May-11	5468.14		27.88		5440.26	NM	NM	NM	NM	NM	NM
TW-3	22-Aug-11	5468.14		28.41		5439.73	NM	NM	NM	NM	NM	NM
TW-3	15-Nov-11	5468.14		28.67		5439.47	NM	NM	NM	NM	NM	NM
TW-4	16-Dec-08	5458.72		19.16		5439.56	6.67	7.258	4.09	13.40	170.6	1.25
TW-4	26-Jan-09	5458.72		NM			NM	NM	NM	NM	NM	NM
TW-4	19-Aug-09	5458.72		19.22		5439.50	7.08	6.739	4.19	16.19	289.9	4.30
TW-4	19-Feb-10	5458.72		19.09		5439.63	NM	NM	NM	NM	NM	NM
TW-4	10-May-10	5458.72		18.86		5439.86	NM	NM	NM	NM	NM	NM
TW-4	18-Aug-10	5458.72		19.12		5439.60	NM	NM	NM	NM	NM	NM
TW-4	15-Nov-10	5458.72		19.31		5439.41	NM	NM	NM	NM	NM	NM
TW-4	17-Feb-11	5458.72		19.12		5439.60	NM	NM	NM	NM	NM	NM
TW-4	17-May-11	5458.72		19.01		5439.71	NM	NM	NM	NM	NM	NM
TW-4	22-Aug-11	5458.72		19.53		5439.19	NM	NM	NM	NM	NM	NM
TW-4	15-Nov-11	5458.72		19.50		5439.22	NM	NM	NM	NM	NM	NM
TW-5	15-Dec-08	5465.18		25.54		5439.64	6.56	3.704	3.26	14.25	16.0	1.25
TW-5	26-Jan-09	5465.18		25.44		5439.74	NM	NM	NM	NM	NM	NM
TW-5	19-Aug-09	5465.18		25.58		5439.60	6.96	3.636	5.53	16.55	298.9	3.60
TW-5	19-Feb-10	5465.18		25.53		5439.65	NM	NM	NM	NM	NM	NM
TW-5	10-May-10	5465.18		25.31		5439.87	NM	NM	NM	NM	NM	NM
TW-5	18-Aug-10	5465.18		25.49		5439.69	NM	NM	NM	NM	NM	NM

TABLE 1

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-5	15-Nov-10	5465.18		25.70		5439.48	NM	NM	NM	NM	NM	NM
TW-5	17-Feb-11	5465.18		25.55		5439.63	NM	NM	NM	NM	NM	NM
TW-5	17-May-11	5465.18		25.42		5439.76	NM	NM	NM	NM	NM	NM
TW-5	22-Aug-11	5465.18		25.89		5439.29	NM	NM	NM	NM	NM	NM
TW-5	15-Nov-11	5465.18		25.93		5439.25	NM	NM	NM	NM	NM	NM
TW-6	15-Dec-08	5463.57		24.78		5438.79	6.50	4.719	0.99	14.50	9.0	1.25
TW-6	26-Jan-09	5463.57		24.67		5438.90	NM	NM	NM	NM	NM	NM
TW-6	19-Aug-09	5463.57		24.82		5438.75	6.95	4.535	1.81	16.24	295.6	4.00
TW-6	19-Feb-10	5463.57		24.74		5438.83	NM	NM	NM	NM	NM	NM
TW-6	10-May-10	5463.57		24.54		5439.03	NM	NM	NM	NM	NM	NM
TW-6	18-Aug-10	5463.57		24.73		5438.84	NM	NM	NM	NM	NM	NM
TW-6	15-Nov-10	5463.57		24.90		5438.67	NM	NM	NM	NM	NM	NM
TW-6	17-Feb-11	5463.57		24.57		5439.00	NM	NM	NM	NM	NM	NM
TW-6	17-May-11	5463.57		24.64		5438.93	NM	NM	NM	NM	NM	NM
TW-6	22-Aug-11	5463.57		25.10		5438.47	NM	NM	NM	NM	NM	NM
TW-6	15-Nov-11	5463.57		25.11		5438.46	NM	NM	NM	NM	NM	NM
TW-7	15-Dec-08	5461.17		22.25		5438.92	6.47	5.302	0.82	14.88	0.8	1.25
TW-7	26-Jan-09	5461.17		22.14		5439.03	NM	NM	NM	NM	NM	NM
TW-7	19-Aug-09	5461.17		22.25		5438.92	6.92	4.780	1.67	16.37	290.3	3.00
TW-7	19-Feb-10	5461.17		22.17		5439.00	NM	NM	NM	NM	NM	NM
TW-7	10-May-10	5461.17		21.97		5439.20	NM	NM	NM	NM	NM	NM
TW-7	18-Aug-10	5461.17		22.17		5439.00	NM	NM	NM	NM	NM	NM
TW-7	15-Nov-10	5461.17		22.37		5438.80	NM	NM	NM	NM	NM	NM
TW-7	17-Feb-11	5461.17		22.78		5438.39	NM	NM	NM	NM	NM	NM
TW-7	18-May-11	5461.17		22.10		5439.07	7.19	3.455	0.49	14.65	-21.8	2

TABLE 1
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-7	22-Aug-11	5461.17		22.55		5438.62	NM	NM	NM	NM	NM	NM
TW-7	17-Nov-11	5461.17		22.59		5438.58	7.25	3.321	1.66	11.31	-25.1	1.00
TW-8	16-Dec-08	5458.29		19.76		5438.53	6.42	5.575	0.51	12.78	-258.2	1.25
TW-8	26-Jan-09	5458.29		19.62		5438.67	NM	NM	NM	NM	NM	NM
TW-8	20-Aug-09	5458.29		19.88		5438.41	7.12	4.523	1.40	14.52	264.7	4.00
TW-8	19-Feb-10	5458.29		19.59		5438.70	NM	NM	NM	NM	NM	NM
TW-8	10-May-10	5458.29		19.73		5438.56	NM	NM	NM	NM	NM	NM
TW-8	18-Aug-10	5458.29		19.72		5438.57	NM	NM	NM	NM	NM	NM
TW-8	15-Nov-10	5458.29		19.87		5438.42	NM	NM	NM	NM	NM	NM
TW-8	17-Feb-11	5458.29		20.21		5438.08	NM	NM	NM	NM	NM	NM
TW-8	18-May-11	5458.29		19.59		5438.70	7.13	4.364	0.25	13.05	-18.3	2
TW-8	22-Aug-11	5458.29		20.12		5438.17	NM	NM	NM	NM	NM	NM
TW-8	15-Nov-11	5458.29		20.03		5438.26	NM	NM	NM	NM	NM	NM
TW-9	16-Dec-08	5450.61		12.20		5438.41	6.90	3.473	2.27	14.53	15.6	1.25
TW-9	26-Jan-09	5450.61		12.05		5438.56	NM	NM	NM	NM	NM	NM
TW-9	20-Aug-09	5450.61		12.49		5438.12	7.57	2.397	1.33	16.93	269.2	2.50
TW-9	19-Feb-10	5450.61		11.99		5438.62	NM	NM	NM	NM	NM	NM
TW-9	10-May-10	5450.61		11.89		5438.72	NM	NM	NM	NM	NM	NM
TW-9	18-Aug-10	5450.61		12.30		5438.31	NM	NM	NM	NM	NM	NM
TW-9	15-Nov-10	5450.61		12.36		5438.25	NM	NM	NM	NM	NM	NM
TW-9	17-Feb-11	5450.61		12.09		5438.52	NM	NM	NM	NM	NM	NM
TW-9	17-May-11	5450.61		12.13		5438.48	NM	NM	NM	NM	NM	NM
TW-9	22-Aug-11	5450.61		12.77		5437.84	NM	NM	NM	NM	NM	NM
TW-9	15-Nov-11	5450.61		12.54		5438.07	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-10	16-Dec-08	5450.16		12.42		5437.74	6.49	3.876	0.98	11.97	-189.3	1.25
TW-10	26-Jan-09	5450.16		12.25		5437.91	NM	NM	NM	NM	NM	NM
TW-10	20-Aug-09	5450.16		12.70		5437.46	7.37	4.019	1.42	16.75	254.7	4.00
TW-10	19-Feb-10	5450.16		12.19		5437.97	NM	NM	NM	NM	NM	NM
TW-10	10-May-10	5450.16		12.15		5438.01	NM	NM	NM	NM	NM	NM
TW-10	18-Aug-10	5450.16		12.52		5437.64	NM	NM	NM	NM	NM	NM
TW-10	15-Nov-10	5450.16		12.54		5437.62	NM	NM	NM	NM	NM	NM
TW-10	17-Feb-11	5450.16		12.87		5437.29	NM	NM	NM	NM	NM	NM
TW-10	17-May-11	5450.16		12.36		5437.80	NM	NM	NM	NM	NM	NM
TW-10	22-Aug-11	5450.16		12.94		5437.22	NM	NM	NM	NM	NM	NM
TW-10	15-Nov-11	5450.16		12.73		5437.43	NM	NM	NM	NM	NM	NM
TW-11	16-Dec-08	5456.31		18.12		5438.19	6.75	6.941	1.41	14.32	72.0	1.25
TW-11	26-Jan-09	5456.31		18.02		5438.29	NM	NM	NM	NM	NM	NM
TW-11	20-Aug-09	5456.31		18.22		5438.09	7.43	6.704	2.52	15.35	261.4	4.00
TW-11	17-Feb-10	5456.31		18.04		5438.27	7.14	10.42	3.98	12.88	49.7	4.20
TW-11	11-May-10	5456.31		17.89		5438.42	7.22	6.44	2.32	13.25	232.1	3.75
TW-11	18-Aug-10	5456.31		18.04		5438.27	NM	NM	NM	NM	NM	NM
TW-11	15-Nov-10	5456.31		18.24		5438.07	NM	NM	NM	NM	NM	NM
TW-11	17-Feb-11	5456.31		18.15		5438.16	NM	NM	NM	NM	NM	NM
TW-11	17-May-11	5456.31		18.01		5438.30	NM	NM	NM	NM	NM	NM
TW-11	23-Aug-11	5456.31		18.43		5437.88	NM	NM	NM	NM	NM	NM
TW-11	17-Nov-11	5456.31		18.44		5437.87	7.36	5.238	2.92	13.92	-31.4	1.00
TW-12	15-Dec-08	5460.44		22.44		5438.00	6.49	4.247	0.95	16.15	-97.3	1.25
TW-12	26-Jan-09	5460.44	22.34	22.44	0.10	5438.08	NM	NM	NM	NM	NM	NM
TW-12	20-Aug-09	5460.44		22.50		5437.94	7.02	3.881	2.34	17.09	266.5	2.50

TABLE 1

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-12	17-Feb-10	5460.44		22.39		5438.05	6.94	5.727	1.46	15.59	206.2	3.00
TW-12	11-May-10	5460.44		22.21		5438.23	7.05	3.295	0.76	15.56	217.9	3.75
TW-12	19-Aug-10	5460.44		22.39		5438.05	6.93	3.343	0.55	16.74	399.3	2.50
TW-12	15-Nov-10	5460.44		22.54		5437.90	6.93	3.343	0.55	16.74	399.3	2.50
TW-12	17-Feb-11	5460.44		22.39		5438.05	NM	NM	NM	NM	NM	NM
TW-12	17-May-11	5460.44		22.30		5438.14	NM	NM	NM	NM	NM	NM
TW-12	22-Aug-11	5460.44		22.73		5437.71	NM	NM	NM	NM	NM	NM
TW-12	16-Nov-11	5460.44		22.74		5437.70	NM	NM	NM	NM	NM	NM
TW-13	16-Dec-08	5458.17	20.64	21.48	0.84	5437.38	Not Sampled - NAPL Present					
TW-13	26-Jan-09	5458.17	20.52	21.46	0.94	5437.49	NM	NM	NM	NM	NM	NM
TW-13	12-Aug-09	5458.17	20.75	21.77	1.02	5437.24	NM	NM	NM	NM	NM	NM
TW-13	11-Nov-09	5458.17	20.76	21.86	1.10	5437.22	NM	NM	NM	NM	NM	NM
TW-13	15-Feb-10	5458.17	20.59	21.48	0.89	5437.43	NM	NM	NM	NM	NM	NM
TW-13	07-May-10	5458.17	20.44	21.03	0.59	5437.63	NM	NM	NM	NM	NM	NM
TW-13	21-Jun-10	5458.17	20.48	21.15	0.67	5437.57	NM	NM	NM	NM	NM	NM
TW-13	18-Aug-10	5458.17	20.77	21.15	0.38	5437.33	NM	NM	NM	NM	NM	NM
TW-13	15-Nov-10	5458.17	20.79	21.39	0.60	5437.28	NM	NM	NM	NM	NM	NM
TW-13	23-Feb-11	5458.17	20.58	21.50	0.92	5437.43	NM	NM	NM	NM	NM	NM
TW-13	18-May-11	5458.17		20.66		5437.51	Not Sampled - Sheen of NAPL Present					
TW-13	23-Aug-11	5458.17	21.08	21.57	0.49	5437.01	Not Sampled - NAPL Present					
TW-13	16-Nov-11	5458.17	20.90	22.04	1.14	5437.07	Not Sampled - NAPL Present					
TW-14	16-Dec-08	5454.24		16.82		5437.42	Not Sampled - Sheen of NAPL present					
TW-14	26-Jan-09	5454.24	16.71	17.02	0.31	5437.48	NM	NM	NM	NM	NM	NM
TW-14	20-Aug-09	5454.24	16.89	17.02	0.13	5437.33	Not Sampled - NAPL present					
TW-14	11-Nov-09	5454.24	17.20	17.67	0.47	5436.96	NM	NM	NM	NM	NM	NM

TABLE 1

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-14	15-Feb-10	5454.24	16.98	17.22	0.24	5437.22	NM	NM	NM	NM	NM	NM
TW-14	11-May-10	5454.24		16.85	sheen	5437.39	7.25	3.49	0.11	16.95	214.6	NM
TW-14	18-Aug-10	5454.24	17.01	17.03	0.02	5437.23	NM	NM	NM	NM	NM	NM
TW-14	15-Nov-10	5454.24		17.17		5437.07	NM	NM	NM	NM	NM	NM
TW-14	17-Feb-11	5454.24	17.04	17.05	0.01	5437.20	NM	NM	NM	NM	NM	NM
TW-14	18-May-11	5454.24		16.99		5437.25	Not Sampled - Sheen of NAPL present					
TW-14	23-Aug-11	5454.24		17.48		5436.76	NM	NM	NM	NM	NM	NM
TW-14	16-Nov-11	5454.24	17.34	17.99	0.65	5436.79	NM	NM	NM	NM	NM	NM
TW-15	16-Dec-08	5450.44		13.15		5437.29	6.69	6.647	1.25	13.17	-176.5	1.25
TW-15	26-Jan-09	5450.44		12.99		5437.45	NM	NM	NM	NM	NM	NM
TW-15	20-Aug-09	5450.44		13.35		5437.09	7.26	6.056	3.64	16.49	320.0	4.30
TW-15	17-Feb-10	5450.44		12.93		5437.51	NM	NM	NM	NM	NM	NM
TW-15	10-May-10	5450.44		12.86		5437.58	NM	NM	NM	NM	NM	NM
TW-15	18-Aug-10	5450.44		13.21		5437.23	NM	NM	NM	NM	NM	NM
TW-15	15-Nov-10	5450.44		13.24		5437.20	NM	NM	NM	NM	NM	NM
TW-15	17-Feb-11	5450.44		13.05		5437.39	NM	NM	NM	NM	NM	NM
TW-15	17-May-11	5450.44		13.09		5437.35	NM	NM	NM	NM	NM	NM
TW-15	23-Aug-11	5450.44		13.58		5436.86	NM	NM	NM	NM	NM	NM
TW-15	16-Nov-11	5450.44		13.42		5437.02	NM	NM	NM	NM	NM	NM
TW-16	16-Dec-08	5448.45		8.76		5439.69	6.71	6.593	1.64	14.90	7.3	1.25
TW-16	26-Jan-09	5448.45		11.11		5437.34	NM	NM	NM	NM	NM	NM
TW-16	20-Aug-09	5448.45		11.85		5436.60	7.40	6.025	3.66	16.57	285.2	1.00
TW-16	17-Feb-10	5448.45		11.10		5437.35	NM	NM	NM	NM	NM	NM
TW-16	17-May-10	5448.45		11.25		5437.2	7.33	3.684	2.19	13.64	227.1	3.75
TW-16	18-Aug-10	5448.45		11.45		5437.00	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-16	15-Nov-10	5448.45		11.52		5436.93	NM	NM	NM	NM	NM	NM
TW-16	17-Feb-11	5448.45		11.21		5437.24	NM	NM	NM	NM	NM	NM
TW-16	17-May-11	5448.45		11.32		5437.13	NM	NM	NM	NM	NM	NM
TW-16	22-Aug-11	5448.45		11.23		5437.22	NM	NM	NM	NM	NM	NM
TW-16	16-Nov-11	5448.45		11.67		5436.78	NM	NM	NM	NM	NM	NM
TW-17	16-Dec-08	5446.24		9.99		5436.25	6.68	6.643	1.26	14.10	-31.3	1.25
TW-17	26-Jan-09	5446.24		9.82		5436.42	NM	NM	NM	NM	NM	NM
TW-17	21-Aug-09	5446.24		10.31		5435.93	7.13	6.100	8.37	17.86	289.9	3.00
TW-17	17-Feb-10	5446.24		9.75		5436.49	NM	NM	NM	NM	NM	NM
TW-17	10-May-10	5446.24		9.83		5436.41	NM	NM	NM	NM	NM	NM
TW-17	18-Aug-10	5446.24		10.21		5436.03	NM	NM	NM	NM	NM	NM
TW-17	15-Nov-10	5446.24		10.18		5436.06	NM	NM	NM	NM	NM	NM
TW-17	17-Feb-11	5446.24		9.92		5436.32	NM	NM	NM	NM	NM	NM
TW-17	17-May-11	5446.24		10.03		5436.21	NM	NM	NM	NM	NM	NM
TW-17	22-Aug-11	5446.24		10.51		5435.73	NM	NM	NM	NM	NM	NM
TW-17	16-Nov-11	5446.24		10.29		5435.95	NM	NM	NM	NM	NM	NM
TW-18	16-Dec-08	5452.73		16.40		5436.33	6.65	5.094	0.88	16.42	-170.9	1.25
TW-18	26-Jan-09	5452.73		16.29		5436.44	NM	NM	NM	NM	NM	NM
TW-18	21-Aug-09	5452.73		16.48		5436.25	6.94	5.273	7.64	17.32	285.8	4.00
TW-18	17-Feb-10	5452.73		16.21		5436.52	6.8	7.990	2.04	15.58	210	3.30
TW-18	10-May-10	5452.73		16.11		5436.62	7.1	4.830	0.75	15.40	222	3.75
TW-18	18-Aug-10	5452.73		16.31		5436.42	NM	NM	NM	NM	NM	NM
TW-18	16-Nov-10	5452.73		16.50		5436.23	7.1	4.730	0.82	16.85	-19	3.00
TW-18	17-Feb-11	5452.73		16.33		5436.40	NM	NM	NM	NM	NM	NM
TW-18	18-May-11	5452.73		16.30		5436.43	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-18	23-Aug-11	5452.73		16.64		5436.09	NM	NM	NM	NM	NM	NM
TW-18	17-Nov-11	5452.73		16.66		5436.07	7.25	4.639	0.64	15.59	-25.1	1.00
TW-19	16-Dec-08	5458.49	22.15	22.62	0.47	5436.26	Not Sampled - NAPL Present					
TW-19	26-Jan-09	5458.49	22.01	22.57	0.56	5436.38	NM	NM	NM	NM	NM	NM
TW-19	13-Aug-09	5458.49	22.13	22.86	0.73	5436.23	Not Sampled - NAPL present					
TW-19	11-Nov-09	5458.49	TW damaged by demolition work									
TW-19	15-Feb-10	5458.49	TW damaged by demolition work									
TW-19	07-May-10	5458.49	17.45	17.52	0.07	5441.03	NM	NM	NM	NM	NM	NM
TW-19	18-Aug-10	5458.49		17.66	Sheen	5440.83	NM	NM	NM	NM	NM	NM
TW-19	15-Nov-10	5458.49	17.79	18.02	0.23	5440.66	NM	NM	NM	NM	NM	NM
TW-19	17-Feb-11	5458.49	Attached to RSI Unit									
TW-19	18-May-11	5458.49		17.63		5440.86	Not Sampled - Sheen of NAPL Present					
TW-19	23-Aug-11	5458.49	17.84	18.34	0.50	5440.56	Not Sampled - NAPL Present					
TW-19	16-Nov-11	5458.49	17.90	18.60	0.70	5440.47	Not Sampled - NAPL Present					
TW-20	17-Dec-08	5453.74	15.14	15.86	0.72	5438.48	Not Sampled - NAPL Present					
TW-20	26-Jan-09	5453.74	17.36	18.62	1.26	5436.16	NM	NM	NM	NM	NM	NM
TW-20	13-Aug-09	5453.74	17.64	19.17	1.53	5435.84	Not Sampled - NAPL present					
TW-20	11-Nov-09	5453.74	17.52	19.45	1.93	5435.89	NM	NM	NM	NM	NM	NM
TW-20	15-Feb-10	5453.74	17.4	18.73	1.33	5436.11	NM	NM	NM	NM	NM	NM
TW-20	07-May-10	5453.74	17.28	18.25	0.97	5436.29	NM	NM	NM	NM	NM	NM
TW-20	07-May-10	5453.74	17.28	18.25	0.97	5436.29	NM	NM	NM	NM	NM	NM
TW-20	18-Aug-10	5453.74	Attached to RSI Unit									
TW-20	15-Nov-10	5453.74	17.56	18.88	1.32	5435.95	NM	NM	NM	NM	NM	NM
TW-20	17-Feb-11	5453.74	Attached to RSI Unit									
TW-20	17-May-11	5453.74	17.40	17.45	0.05	5436.33	Not Sampled - NAPL Present					

TABLE 1
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-20	23-Aug-11	5453.74	17.87	19.40	1.53	5435.61	Not Sampled - NAPL Present					
TW-20	16-Nov-11	5453.74	17.64	19.60	1.96	5435.76	Not Sampled - NAPL Present					
TW-21	17-Dec-08	5451.85	15.42	17.19	1.77	5436.12	Not Sampled - NAPL Present					
TW-21	26-Jan-09	5451.85	16.35	16.94	0.59	5435.40	NM	NM	NM	NM	NM	NM
TW-21	13-Aug-09	5451.85	16.50	16.94	0.44	5435.27	Not Sampled - NAPL present					
TW-21	12-Nov-09	5451.85	TW damaged by demolition work									
TW-21	15-Feb-10	5451.85	TW damaged by demolition work									
TW-21	07-May-10	5451.85	TW damaged by demolition work									
TW-21	18-Aug-10	5451.85	TW damaged by demolition work									
TW-21	15-Nov-10	5451.85	TW damaged by demolition work									
TW-21	23-Feb-11	5451.85	TW damaged by demolition work									
TW-21	17-May-11	5451.85	TW damaged by demolition work									
TW-21	23-Aug-11	5451.85	TW damaged by demolition work									
TW-21	16-Nov-11	5451.85	TW damaged by demolition work									
TW-22	17-Dec-08	5450.19	14.75	14.76	0.01	5435.44	Not Sampled - NAPL Present					
TW-22	26-Jan-09	5450.19	14.69	15.26	0.57	5435.40	NM	NM	NM	NM	NM	NM
TW-22	13-Aug-09	5450.19	14.79	15.39	0.60	5435.30	Not Sampled - NAPL present					
TW-22	12-Nov-09	5450.19	14.88	15.58	0.70	5435.19	NM	NM	NM	NM	NM	NM
TW-22	15-Feb-10	5450.19	14.72	15.03	0.31	5435.42	NM	NM	NM	NM	NM	NM
TW-22	07-May-10	5450.19	14.63	14.73	0.10	5435.54	NM	NM	NM	NM	NM	NM
TW-22	18-Aug-10	5450.19	14.74	15.01	0.27	5435.40	NM	NM	NM	NM	NM	NM
TW-22	15-Nov-10	5450.19	14.94	15.14	0.20	5435.22	NM	NM	NM	NM	NM	NM
TW-22	23-Feb-11	5450.19	14.80	15.14	0.34	5435.33	NM	NM	NM	NM	NM	NM
TW-22	17-May-11	5450.19	14.79	15.02	0.23	5435.36	Not Sampled - NAPL Present					
TW-22	23-Aug-11	5450.19	15.13	15.16	0.03	5435.05	Not Sampled - NAPL Present					

TABLE 1
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-22	16-Nov-11	5450.19	15.10	15.62	0.52	5435.00	Not Sampled - NAPL Present					
TW-23	18-Dec-08	5443.64		6.60		5437.04	7.09	6.727	3.77	13.65	-138.4	1.25
TW-23	26-Jan-08	5443.64		8.73		5434.91	NM	NM	NM	NM	NM	NM
TW-23	21-Aug-09	5443.64		9.07		5434.57	7.17	7.95	5.40	18.47	286.8	3.00
TW-23	17-Feb-10	5443.64		8.61		5435.03	NM	NM	NM	NM	NM	NM
TW-23	10-May-10	5443.64		8.64		5435.00	NM	NM	NM	NM	NM	NM
TW-23	18-Aug-10	5443.64		8.94		5434.70	NM	NM	NM	NM	NM	NM
TW-23	15-Nov-10	5443.64		9.10		5434.54	NM	NM	NM	NM	NM	NM
TW-23	17-Feb-11	5443.64		9.51		5434.13	NM	NM	NM	NM	NM	NM
TW-23	17-May-11	5443.64		8.99		5434.65	NM	NM	NM	NM	NM	NM
TW-23	22-Aug-11	5443.64		9.05		5434.59	NM	NM	NM	NM	NM	NM
TW-23	16-Nov-11	5443.64		9.05		5434.59	NM	NM	NM	NM	NM	NM
TW-24	17-Dec-08	5444.79		10.97		5433.82	6.21	5.942	4.88	15.60	-64.3	1.25
TW-24	26-Jan-09	5444.79	11.84	11.85	0.01	5432.95	NM	NM	NM	NM	NM	NM
TW-24	21-Aug-09	5444.79	11.10	11.22	0.12	5433.67	Not Sampled - NAPL Present					
TW-24	13-Nov-09	5444.79	11.07	11.15	0.08	5433.71	NM	NM	NM	NM	NM	NM
TW-24	17-Feb-10	5444.79		10.78		5434.01	6.62	7.86	0.74	13.77	436.8	3.00
TW-24	11-May-10	5444.79		10.63		5434.16	7.05	4.70	0.33	14.39	229	3.75
TW-24	18-Aug-10	5444.79		11.09	Sheen	5433.70	NM	NM	NM	NM	NM	NM
TW-24	15-Nov-10	5444.79	11.17	11.30	0.13	5433.60	NM	NM	NM	NM	NM	NM
TW-24	23-Feb-11	5444.79	11.09	11.15	0.06	5433.69	NM	NM	NM	NM	NM	NM
TW-24	17-May-11	5444.79	11.09	11.15	0.06	5433.69	Not Sampled - NAPL Present					
TW-24	23-Aug-11	5444.79	11.34	11.47	0.13	5433.43	Not Sampled - NAPL Present					
TW-24	16-Nov-11	5444.79	11.26	11.37	0.11	5433.51	Not Sampled - NAPL Present					

TABLE 1
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-25	17-Dec-08	5448.80	14.13	14.62	0.49	5434.59	Not Sampled - NAPL Present					
TW-25	26-Jan-09	5448.80	14.05	14.41	0.36	5434.69	NM	NM	NM	NM	NM	NM
TW-25	13-Aug-09	5448.80	14.14	14.63	0.49	5434.58	Not Sampled - NAPL present					
TW-25	12-Nov-09	5448.80	14.24	14.91	0.67	5434.44	NM	NM	NM	NM	NM	NM
TW-25	15-Feb-10	5448.80	14.03	14.41	0.38	5434.70	NM	NM	NM	NM	NM	NM
TW-25	07-May-10	5448.80	13.88	14.18	0.30	5434.87	NM	NM	NM	NM	NM	NM
TW-25	18-Aug-10	5448.80	14.00	14.39	0.39	5434.73	NM	NM	NM	NM	NM	NM
TW-25	15-Nov-10	5448.80	14.40	14.71	0.31	5434.35	NM	NM	NM	NM	NM	NM
TW-25	23-Feb-11	5448.80	14.21	14.45	0.24	5434.55	NM	NM	NM	NM	NM	NM
TW-25	17-May-11	5448.80	14.09	14.29	0.20	5434.68	Not Sampled - NAPL Present					
TW-25	23-Aug-11	5448.80	14.35	14.85	0.50	5434.36	Not Sampled - NAPL Present					
TW-25	16-Nov-11	5448.80	14.30	15.12	0.82	5434.36	Not Sampled - NAPL Present					
TW-26	17-Dec-08	5450.34	13.49	14.47	0.98	5436.68	Not Sampled - NAPL Present					
TW-26	26-Jan-09	5450.34	15.80	16.76	0.96	5434.37	NM	NM	NM	NM	NM	NM
TW-26	13-Aug-09	5450.34	15.83	17.29	1.46	5434.26	Not Sampled - NAPL present					
TW-26	12-Nov-09	5450.34	15.91	17.47	1.56	5434.16	NM	NM	NM	NM	NM	NM
TW-26	15-Feb-10	5450.34	15.81	16.86	1.05	5434.35	NM	NM	NM	NM	NM	NM
TW-26	07-May-10	5450.34	15.68	16.22	0.54	5434.57	NM	NM	NM	NM	NM	NM
TW-26	18-Aug-10	5450.34	15.75	16.75	1.00	5434.42	NM	NM	NM	NM	NM	NM
TW-26	15-Nov-10	5450.34	15.85	17.06	1.21	5434.28	NM	NM	NM	NM	NM	NM
TW-26	23-Feb-11	5450.34	15.81	16.75	0.94	5434.37	NM	NM	NM	NM	NM	NM
TW-26	17-May-11	5450.34	15.74	16.50	0.76	5434.47	Not Sampled - NAPL Present					
TW-26	24-Aug-11	5450.34	16.02	17.44	1.42	5434.07	Not Sampled - NAPL Present					
TW-26	16-Nov-11	5450.34	15.98	17.40	1.42	5434.11	Not Sampled - NAPL Present					
TW-28	17-Dec-08	5449.24	15.37	15.96	0.59	5433.77	Not Sampled - NAPL Present					

TABLE 1
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-28	26-Jan-09	5449.24	15.28	15.79	0.51	5433.87	NM	NM	NM	NM	NM	NM
TW-28	13-Aug-09	5449.24	15.27	16.31	1.04	5433.79	Not Sampled - NAPL present					
TW-28	12-Nov-09	5449.24	15.35	16.74	1.39	5433.65	NM	NM	NM	NM	NM	NM
TW-28	15-Feb-10	5449.24	15.22	16.10	0.88	5433.87	NM	NM	NM	NM	NM	NM
TW-28	07-May-10	5449.24	15.08	15.47	0.39	5434.09	NM	NM	NM	NM	NM	NM
TW-28	18-Aug-10	5449.24	15.12	16.09	0.97	5433.95	NM	NM	NM	NM	NM	NM
TW-28	15-Nov-10	5449.24	15.49	16.67	1.18	5433.55	NM	NM	NM	NM	NM	NM
TW-28	23-Feb-11	5449.24	15.24	16.39	1.15	5433.80	NM	NM	NM	NM	NM	NM
TW-28	17-May-11	5449.24	15.19	16.09	0.90	5433.89	Not Sampled - NAPL Present					
TW-28	24-Aug-11	5449.24	15.33	16.87	1.54	5433.64	Not Sampled - NAPL Present					
TW-28	16-Nov-11	5449.24	15.40	16.94	1.54	5433.57	Not Sampled - NAPL Present					
TW-29	17-Dec-08	5441.87	9.19	9.20	0.01	5432.68	Not Sampled - NAPL Present					
TW-29	26-Jan-09	5441.87	9.12	9.14	0.02	5432.75	NM	NM	NM	NM	NM	NM
TW-29	13-Aug-09	5441.87	9.22	10.06	0.84	5432.50	Not Sampled - NAPL present					
TW-29	13-Nov-09	5441.87	9.25	9.91	0.66	5432.51	NM	NM	NM	NM	NM	NM
TW-29	17-Feb-10	5441.87		8.96		5432.91	6.00	8.583	0.60	13.79	357.9	3.60
TW-29	07-May-10	5441.87	8.91	8.96	0.05	5432.95	NM	NM	NM	NM	NM	NM
TW-29	18-Aug-10	5441.87	9.14	9.69	0.55	5432.63	NM	NM	NM	NM	NM	NM
TW-29	15-Nov-10	5441.87	9.43	10.23	0.80	5432.30	NM	NM	NM	NM	NM	NM
TW-29	23-Feb-11	5441.87	10.31	10.90	0.59	5431.46	NM	NM	NM	NM	NM	NM
TW-29	17-May-11	5441.87	9.35	9.83	0.48	5432.44	Not Sampled - NAPL Present					
TW-29	24-Aug-11	5441.87	9.43	10.38	0.95	5432.28	Not Sampled - NAPL Present					
TW-29	16-Nov-11	5441.87	9.46	10.16	0.70	5432.29	Not Sampled - NAPL Present					
TW-30	18-Dec-08	5437.93		5.90		5432.03	6.46	6.328	6.25*	12.89	-66.2	1.25
TW-30	26-Jan-09	5437.93		5.69		5432.24	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-30	21-Aug-09	5437.93		6.07		5431.86	6.61	7.238	5.52	18.52	304.0	5.50
TW-30	17-Feb-10	5437.93		5.65		5432.28	6.26	8.169	1.47	11.21	476.9	5.60
TW-30	11-May-10	5437.93		5.67		5432.26	6.77	5.188	0.76	12.56	238.8	3.75
TW-30	18-Aug-10	5437.93		5.99		5431.94	NM	NM	NM	NM	NM	NM
TW-30	16-Nov-10	5437.93		6.34		5431.59	6.96	6.832	0.61	15.28	-8.8	3.00
TW-30	17-Feb-11	5437.93		6.24		5431.69	NM	NM	NM	NM	NM	NM
TW-30	17-May-11	5437.93		6.22		5431.71	NM	NM	NM	NM	NM	NM
TW-30	24-Aug-11	5437.93		6.47		5431.46	NM	NM	NM	NM	NM	NM
TW-30	17-Nov-11	5437.93		6.25		5431.68	7.21	6.482	0.54	12.97	-23.1	1.00
TW-31	16-Dec-08	5438.54		7.03		5431.51	6.37	7.298	2.97	14.00	12.8	1.25
TW-31	26-Jan-09	5438.54		6.94		5431.60	NM	NM	NM	NM	NM	NM
TW-31	21-Aug-09	5438.54		7.18		5431.36	6.84	10.35	6.90	21.75	319.9	3.00
TW-31	17-Feb-10	5438.54		6.82		5431.72	6.63	9.906	3.95	9.75	358.8	3.00
TW-31	11-May-10	5438.54		6.78		5431.76	6.96	7.523	1.31	13.25	228.9	4.00
TW-31	18-Aug-10	5438.54		6.98		5431.56	NM	NM	NM	NM	NM	NM
TW-31	16-Nov-10	5438.54		7.24		5431.30	6.98	5.526	0.99	15.87	-10.0	3.00
TW-31	17-Feb-11	5438.54		7.16		5431.38	NM	NM	NM	NM	NM	NM
TW-31	17-May-11	5438.54		7.07		5431.47	NM	NM	NM	NM	NM	NM
TW-31	24-Aug-11	5438.54		7.30		5431.24	NM	NM	NM	NM	NM	NM
TW-31	17-Nov-11	5438.54		7.18		5431.36	7.24	5.432	1.94	14.67	-24.7	1.00
TW-32	17-Dec-08	5441.61	7.22	8.79	1.57	5434.12	Not Sampled - NAPL Present					
TW-32	26-Jan-09	5441.61	9.02	10.31	1.29	5432.37	NM	NM	NM	NM	NM	NM
TW-32	13-Aug-09	5441.61	9.12	10.86	1.74	5432.19	Not Sampled - NAPL present					
TW-32	12-Nov-09	5441.61	9.26	10.88	1.62	5432.07	NM	NM	NM	NM	NM	NM
TW-32	16-Feb-10	5441.61	8.97	9.98	1.01	5432.47	NM	NM	NM	NM	NM	NM

TABLE 1

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-32	07-May-10	5441.61	8.92	9.34	0.42	5432.62	NM	NM	NM	NM	NM	NM
TW-32	18-Aug-10	5441.61	9.00	10.18	1.18	5432.41	NM	NM	NM	NM	NM	NM
TW-32	15-Nov-10	5441.61	9.30	10.87	1.57	5432.04	NM	NM	NM	NM	NM	NM
TW-32	23-Feb-11	5441.61	9.23	10.79	1.56	5432.11	NM	NM	NM	NM	NM	NM
TW-32	17-May-11	5441.61	9.26	10.72	1.46	5432.10	Not Sampled - NAPL Present					
TW-32	24-Aug-11	5441.61	9.40	10.92	1.52	5431.95	Not Sampled - NAPL Present					
TW-32	16-Nov-11	5441.61	9.38	11.01	1.63	5431.95	Not Sampled - NAPL Present					
TW-33	17-Dec-08	5445.85	12.96	13.02	0.06	5432.88	Not Sampled - NAPL Present					
TW-33	26-Jan-09	5445.85	12.92	13.02	0.10	5432.91	NM	NM	NM	NM	NM	NM
TW-33	13-Aug-09	5445.85	12.96	13.10	0.14	5432.87	Not Sampled - NAPL present					
TW-33	12-Nov-09	5445.85	13.10	13.40	0.30	5432.70	NM	NM	NM	NM	NM	NM
TW-33	16-Feb-10	5445.85	12.89	12.93	0.04	5432.95	NM	NM	NM	NM	NM	NM
TW-33	07-May-10	5445.85	12.68	12.70	0.02	5433.17	NM	NM	NM	NM	NM	NM
TW-33	18-Aug-10	5445.85	12.81	12.99	0.18	5433.01	NM	NM	NM	NM	NM	NM
TW-33	15-Nov-10	5445.85	12.97	13.15	0.18	5432.85	NM	NM	NM	NM	NM	NM
TW-33	17-Feb-11	5445.85	12.98	13.05	0.07	5432.86	NM	NM	NM	NM	NM	NM
TW-33	17-May-11	5445.85	12.80	12.82	0.02	5433.05	Not Sampled - NAPL Present					
TW-33	24-Aug-11	5445.85	13.20	13.33	0.13	5432.63	Not Sampled - NAPL Present					
TW-33	16-Nov-11	5445.85	13.13	13.42	0.29	5432.67	Not Sampled - NAPL Present					
TW-34	18-Dec-08	5455.80		19.82		5435.98	7.48	6.744	3.97	14.29	-183.8	1.25
TW-34	26-Jan-09	5455.80		19.74		5436.06	NM	NM	NM	NM	NM	NM
TW-34	19-Aug-09	5455.80		20.23		5435.57	7.06	10.07	6.19	15.43	303.7	3.00
TW-34	18-Feb-10	5455.80		19.79		5436.01	7.06	9.266	2.40	12.35	-55.0	3.00
TW-34	12-May-10	5455.80		19.6		5436.20	7.03	5.825	2.18	13.57	133.5	3.75
TW-34	18-Aug-10	5455.80		20.10		5435.70	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-34	15-Nov-10	5455.80		19.93		5435.87	NM	NM	NM	NM	NM	NM
TW-34	23-Feb-11	5455.80		19.83		5435.97	NM	NM	NM	NM	NM	NM
TW-34	17-May-11	5455.80		19.73		5436.07	NM	NM	NM	NM	NM	NM
TW-34	24-Aug-11	5455.80		20.43		5435.37	NM	NM	NM	NM	NM	NM
TW-34	22-Nov-11	5455.80		20.14		5435.66	7.25	6.078	2.31	14.58	-25.4	1.00
TW-35	18-Dec-08	5449.14		15.21		5433.93	7.04	7.929	4.39	14.98	-189.4	1.25
TW-35	26-Jan-09	5449.14		15.12		5434.02	NM	NM	NM	NM	NM	NM
TW-35	24-Aug-09	5449.14		15.29		5433.85	7.02	11.80	6.40	16.41	295.1	3.30
TW-35	18-Feb-10	5449.14		15.15		5433.99	7.20	11.52	2.91	12.99	-283.0	3.60
TW-35	12-May-10	5449.14		14.91		5434.23	7.17	6.714	1.91	12.77	197.4	3.75
TW-35	18-Aug-10	5449.14		15.08		5434.06	NM	NM	NM	NM	NM	NM
TW-35	17-Nov-10	5449.14		15.23		5433.91	7.13	7.175	0.72	15.97	-18.3	3.00
TW-35	23-Feb-11	5449.14		15.17		5433.97	NM	NM	NM	NM	NM	NM
TW-35	17-May-11	5449.14		15.03		5434.11	NM	NM	NM	NM	NM	NM
TW-35	24-Aug-11	5449.14		15.35		5433.79	NM	NM	NM	NM	NM	NM
TW-35	22-Nov-11	5449.14		15.35		5433.79	7.38	6.901	1.21	15.24	-32.9	1.00
TW-36	18-Dec-08	5441.91		13.03		5428.88	6.94	7.874	3.6	15.28	-270.7	1.25
TW-36	26-Jan-09	5441.91	12.94	12.97	0.03	5428.96	NM	NM	NM	NM	NM	NM
TW-36	13-Aug-09	5441.91	13.17	13.35	0.18	5428.71	Not Sampled - NAPL present					
TW-36	13-Nov-09	5441.91	13.25	13.63	0.38	5428.59	NM	NM	NM	NM	NM	NM
TW-36	16-Feb-10	5441.91	12.96	12.98	0.02	5428.95	NM	NM	NM	NM	NM	NM
TW-36	12-May-10	5441.91		12.70		5429.21	7.08	6.193	1.42	12.75	388.4	3.75
TW-36	18-Aug-10	5441.91	13.10	13.18	0.08	5428.80	NM	NM	NM	NM	NM	NM
TW-36	15-Nov-10	5441.91	13.20	13.35	0.15	5428.68	NM	NM	NM	NM	NM	NM
TW-36	23-Feb-11	5441.91		13.03		5428.88	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-36	17-May-11	5441.91	12.97	12.98	0.01	5428.94	Not Sampled - NAPL Present					
TW-36	24-Aug-11	5441.91	13.43	13.68	0.25	5428.44	Not Sampled - NAPL Present					
TW-36	15-Nov-11	5441.91	13.36	13.55	0.19	5428.52	Not Sampled - NAPL Present					
TW-37	17-Dec-08	5439.59		10.57		5429.02	6.51	4.698	3.5	14.02	-221.3	1.25
TW-37	26-Jan-09	5439.59		10.47		5429.12	NM	NM	NM	NM	NM	NM
TW-37	21-Aug-09	5439.59		10.71		5428.88	7.22	6.162	4.35	18.77	296.1	3.00
TW-37	16-Feb-10	5439.59		10.44		5429.15	6.77	6.700	1.11	12.18	430.5	3.00
TW-37	11-May-10	5439.59		10.16		5429.43	6.98	4.092	1.27	12.84	224.6	3.75
TW-37	19-Aug-10	5439.59		10.53		5429.06	7.05	4.268	0.41	18.90	324.2	1.50
TW-37	16-Nov-10	5439.59		10.68		5428.91	7.05	4.503	0.61	16.79	-13.6	3.00
TW-37	17-Feb-11	5439.59		10.58		5429.01	NM	NM	NM	NM	NM	NM
TW-37	18-May-11	5439.59		10.50		5429.09	7.05	4.162	0.77	13.42	-13.9	0.50
TW-37	24-Aug-11	5439.59		10.86		5428.73	NM	NM	NM	NM	NM	NM
TW-37	22-Nov-11	5439.59		10.83		5428.76	7.26	4.513	1.63	15.31	-25.8	1.00
TW-38	17-Dec-08	5442.11		9.55		5432.56	6.95	5.466	4.06	12.82	-179.3	1.25
TW-38	26-Jan-09	5442.11		11.36		5430.75	NM	NM	NM	NM	NM	NM
TW-38	21-Aug-09	5442.11	11.57	11.58	0.01	5430.54	Not Sampled - NAPL Present					
TW-38	12-Nov-09	5442.11	11.64	11.70	0.06	5430.46	NM	NM	NM	NM	NM	NM
TW-38	18-Feb-10	5442.11		11.28		5430.83	6.73	7.314	0.57	12.54	549.0	2.10
TW-38	12-May-10	5442.11		11.09		5431.02	7.06	4.741	2.37	12.83	205.3	3.75
TW-38	19-Aug-10	5442.11		11.30		5430.81	6.99	4.573	0.48	18.42	353.8	2.50
TW-38	16-Nov-10	5442.11		11.54		5430.57	7.10	4.657	0.79	16.96	-16.7	3.00
TW-38	17-Feb-11	5442.11		11.49		5430.62	NM	NM	NM	NM	NM	NM
TW-38	18-May-11	5442.11		11.42		5430.69	7.06	3.756	0.97	13.91	-14.3	0.50
TW-38	24-Aug-11	5442.11		11.72		5430.39	NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-38	16-Nov-11	5442.11	11.68	11.83	0.15	5430.40	NM	NM	NM	NM	NM	NM
TW-39	18-Dec-08	5438.43	7.7	7.71	0.01	5430.73	Not Sampled - Sheen of NAPL Present					
TW-39	26-Jan-09	5438.43		7.44		5430.99	NM	NM	NM	NM	NM	NM
TW-39	21-Aug-09	5438.43		7.96		5430.47	6.93	8.946	4.48	23.34	328.1	3.00
TW-39	17-Feb-10	5438.43		7.11		5431.32	6.64	6.092	1.22	8.11	244.4	2.10
TW-39	12-May-10	5438.43		6.98		5431.45	6.93	6.104	1.91	12.70	214.3	3.75
TW-39	19-Aug-10	5438.43		7.42		5431.01	7.19	3.956	0.30	22.67	359.2	2.50
TW-39	16-Nov-10	5438.43		7.95		5430.48	7.17	4.224	0.85	15.29	-20.8	3.00
TW-39	17-Feb-11	5438.43		9.01		5429.42	NM	NM	NM	NM	NM	NM
TW-39	19-May-11	5438.43		7.73		5430.70	7.13	4.654	1.00	11.84	-18.2	0.50
TW-39	24-Aug-11	5438.43		7.97		5430.46	NM	NM	NM	NM	NM	NM
TW-39	17-Nov-11	5438.43		7.98		5430.45	7.18	4.189	0.63	14.26	-21.5	1.00
TW-40	18-Dec-08	5437.50		5.30		5432.20	Not Sampled - Sheen of NAPL Present					
TW-40	26-Jan-09	5437.50		7.27		5430.23	NM	NM	NM	NM	NM	NM
TW-40	13-Aug-09	5437.50	7.90	8.53	0.63	5429.49	Not Sampled - NAPL present					
TW-40	13-Nov-09	5437.50	7.93	8.49	0.56	5429.47	NM	NM	NM	NM	NM	NM
TW-40	16-Feb-10	5437.50	6.84	7.76	0.92	5430.50	NM	NM	NM	NM	NM	NM
TW-40	07-May-10	5437.50	6.78	7.90	1.12	5430.53	NM	NM	NM	NM	NM	NM
TW-40	18-Aug-10	5437.50	7.50	7.88	0.38	5429.93	NM	NM	NM	NM	NM	NM
TW-40	15-Nov-10	5437.50	7.97	8.51	0.54	5429.44	NM	NM	NM	NM	NM	NM
TW-40	17-Feb-11	5437.50	7.94	8.38	0.44	5429.48	NM	NM	NM	NM	NM	NM
TW-40	17-May-11	5437.50	7.72	8.19	0.47	5429.70	Not Sampled - NAPL Present					
TW-40	24-Aug-11	5437.50	8.07	8.69	0.62	5429.32	Not Sampled - NAPL Present					
TW-40	16-Nov-11	5437.50	8.01	8.51	0.50	5429.40	Not Sampled - NAPL Present					

TABLE 1
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-41	18-Dec-08	5434.77		5.85		5428.92	6.16	5.669	3.92	10.95	-339.4	1.25
TW-41	26-Jan-09	5434.77		5.59		5429.18	NM	NM	NM	NM	NM	NM
TW-41	24-Aug-09	5434.77		6.27		5428.50	6.72	9.811	8.50	20.12	126.3	2.50
TW-41	16-Feb-10	5434.77		5.34		5429.43	6.06	8.192	0.46	8.01	461.4	3.00
TW-41	12-May-10	5434.77		5.17		5429.60	7.01	5.881	1.30	12.95	229.2	3.75
TW-41	20-Aug-10	5434.77		5.70		5429.07	7.07	5.434	0.52	20.38	197.0	2.50
TW-41	16-Nov-10	5434.77		6.12		5428.65	6.93	5.792	0.69	14.43	-6.7	3.00
TW-41	17-Feb-11	5434.77		6.06		5428.71	NM	NM	NM	NM	NM	NM
TW-41	18-May-11	5434.77		5.92		5428.85	7.05	5.675	0.78	13.17	-13.9	0.50
TW-41	24-Aug-11	5434.77		6.36		5428.41	NM	NM	NM	NM	NM	NM
TW-41	22-Nov-11	5434.77		6.27		5428.50	7.19	3.813	0.59	12.23	-21.6	1.00
TW-42	16-Dec-08	5433.76		6.09		5427.67	6.48	6.036	1.07	12.04	23.5	1.25
TW-42	26-Jan-09	5433.76		5.97		5427.79	NM	NM	NM	NM	NM	NM
TW-42	24-Aug-09	5433.76		6.37		5427.39	7.23	10.81	6.43	19.48	219.0	2.50
TW-42	16-Feb-10	5433.76		5.84		5427.92	6.43	7.885	2.50	7.78	456.9	3.00
TW-42	12-May-10	5433.76		5.55		5428.21	7.27	5.816	2.60	12.54	233.5	3.75
TW-42	20-Aug-10	5433.76		6.05		5427.71	7.34	6.146	1.34	19.81	266.2	2.50
TW-42	16-Nov-10	5433.76		6.21		5427.55	7.26	6.589	1.84	14.17	-25.8	3.00
TW-42	17-Feb-11	5433.76		6.07		5427.69	NM	NM	NM	NM	NM	NM
TW-42	17-May-11	5433.76		6.02		5427.74	NM	NM	NM	NM	NM	NM
TW-42	24-Aug-11	5433.76		6.47		5427.29	NM	NM	NM	NM	NM	NM
TW-42	22-Nov-11	5433.76		6.43		5427.33	7.31	4.216	0.88	12.53	-28.4	1.00
TW-43	16-Dec-08	5440.42		12.19		5428.23	6.35	6.716	1.01	14.39	7.0	1.25
TW-43	26-Jan-09	5440.42		12.10		5428.32	NM	NM	NM	NM	NM	NM
TW-43	24-Aug-09	5440.42		12.44		5427.98	6.94	8.834	6.92	17.73	204.1	3.00

TABLE 1
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-43	16-Feb-10	5440.42		12.11		5428.31	6.79	7.655	3.56	12.46	431.3	3.00
TW-43	12-May-10	5440.42		11.82		5428.60	7.01	4.736	1.60	12.89	225.4	3.75
TW-43	20-Aug-10	5440.42		12.29		5428.13	6.98	4.873	1.00	17.72	299.0	2.50
TW-43	16-Nov-10	5440.42		12.34		5428.08	6.94	5.273	0.84	16.58	-7.3	3.00
TW-43	17-Feb-11	5440.42		12.19		5428.23	NM	NM	NM	NM	NM	NM
TW-43	18-May-11	5440.42		12.15		5428.27	6.93	5.144	0.44	13.07	-7.1	0.50
TW-43	24-Aug-11	5440.42		12.58		5427.84	NM	NM	NM	NM	NM	NM
TW-43	22-Nov-11	5440.42		12.47		5427.95	7.21	3.383	1.52	13.06	-23.1	NM
TW-44	17-Dec-08	5444.08		12.66		5431.42	6.71	6.494	2.75	15.75	-43.4	1.25
TW-44	26-Jan-09	5444.08		14.93		5429.15	NM	NM	NM	NM	NM	NM
TW-44	24-Aug-09	5444.08		15.15		5428.93	6.74	9.788	6.47	16.80	248.3	1.50
TW-44	18-Feb-10	5444.08	15.02	15.04	0.02	5429.06	NM	NM	NM	NM	NM	NM
TW-44	07-May-10	5444.08	14.66	14.68	0.02	5429.42	NM	NM	NM	NM	NM	NM
TW-44	18-Aug-10	5444.08	14.98	15.00	0.02	5429.10	NM	NM	NM	NM	NM	NM
TW-44	15-Nov-10	5444.08	15.12	15.15	0.03	5428.95	NM	NM	NM	NM	NM	NM
TW-44	17-Feb-11	5444.08	15.02	15.03	0.01	5429.06	NM	NM	NM	NM	NM	NM
TW-44	17-May-11	5444.08	14.96	15.01	0.05	5429.11	Not Sampled - NAPL Present					
TW-44	23-Aug-11	5444.08	15.34	15.37	0.03	5428.73	Not Sampled - NAPL Present					
TW-44	16-Nov-11	5444.08	15.32	16.06	0.74	5428.63	Not Sampled - NAPL Present					
TW-45	13-May-10	TBS		6.58			7.01	5.204	4.93	11.52	179.0	3.75
TW-45	20-Aug-10	TBS		7.06			6.98	5.245	1.84	19.10	234.6	2.50
TW-45	17-Nov-10	TBS		7.09			6.93	5.564	0.97	14.24	-7.2	0.50
TW-45	23-Feb-11	TBS		7.01			NM	NM	NM	NM	NM	NM
TW-45	18-May-11	TBS		7.20			6.98	3.793	0.84	11.97	-9.7	2.00
TW-45	24-Aug-11	TBS		7.40			NM	NM	NM	NM	NM	NM

TABLE 1
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-45	15-Nov-11	TBS		7.23			NM	NM	NM	NM	NM	NM
TW-46	13-May-10	TBS		6.86			7.15	4.889	4.72	12.28	206.5	3.75
TW-46	20-Aug-10	TBS		7.31			7.13	5.262	1.14	19.45	241.2	0.50
TW-46	15-Nov-10	TBS		7.41			NM	NM	NM	NM	NM	NM
TW-46	23-Feb-11	TBS		7.34			NM	NM	NM	NM	NM	NM
TW-46	18-May-11	TBS		6.89			7.12	2.778	0.72	12.26	-17.7	0.50
TW-46	24-Aug-11	TBS		7.71			NM	NM	NM	NM	NM	NM
TW-46	22-Nov-11	TBS		7.67			7.39	5.122	1.53	13.16	-33.2	NM
TW-47	13-May-10	TBS		6.04			7.23	11.86	3.36	12.89	214.8	3.75
TW-47	20-Aug-10	TBS		6.67			7.20	11.46	1.16	20.71	241.0	0.50
TW-47	17-Nov-10	TBS		6.93			7.08	10.79	2.09	14.87	-15.4	0.50
TW-47	23-Feb-11	TBS		6.94			NM	NM	NM	NM	NM	NM
TW-47	17-May-11	TBS		6.79			NM	NM	NM	NM	NM	NM
TW-47	24-Aug-11	TBS		7.31			NM	NM	NM	NM	NM	NM
TW-47	22-Nov-11	TBS		6.79			7.22	12.17	1.55	12.67	-23.4	1.00
TW-48	12-May-10	TBS		6.90			6.95	5.924	3.43	13.25	231.8	3.75
TW-48	19-Aug-10	TBS		7.18			6.85	5.861	1.75	21.73	405.2	2.50
TW-48	15-Nov-10	TBS		7.39			NM	NM	NM	NM	NM	NM
TW-48	17-Feb-11	TBS		7.31			NM	NM	NM	NM	NM	NM
TW-48	17-May-11	TBS		7.30			NM	NM	NM	NM	NM	NM
TW-48	24-Aug-11	TBS		7.50			NM	NM	NM	NM	NM	NM
TW-48	16-Nov-11	TBS		7.39			NM	NM	NM	NM	NM	NM
TW-49	17-May-10	TBS		5.32			7.73	6.88	3.06	15.48	228.50	0.00

TABLE 1

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-49	20-Aug-10	TBS		5.84			NM	NM	NM	NM	NM	NM
TW-49	15-Nov-10	TBS		6.36			NM	NM	NM	NM	NM	NM
TW-49	23-Feb-11	TBS		6.27			NM	NM	NM	NM	NM	NM
TW-49	17-May-11	TBS		6.24			NM	NM	NM	NM	NM	NM
TW-49	24-Aug-11	TBS		6.61			NM	NM	NM	NM	NM	NM
TW-49	22-Nov-11	TBS		6.14			NM - Roots in well					
TW-50	12-May-10	TBS		7.30			6.92	5.815	1.25	13.27	231.5	3.75
TW-50	19-Aug-10	TBS		7.67			6.96	5.946	0.45	22.26	334.4	2.50
TW-50	15-Nov-10	TBS		8.06			NM	NM	NM	NM	NM	NM
TW-50	17-Feb-11	TBS		7.99			NM	NM	NM	NM	NM	NM
TW-50	19-May-11	TBS		7.89			7.13	5.337	0.78	12.42	-18.3	0.50
TW-50	24-Aug-11	TBS		8.08			NM	NM	NM	NM	NM	NM
TW-50	17-Nov-11	TBS		8.08			7.19	4.889	0.35	16.56	-21.9	1.00
MW-5	30-Jan-02	5428.97		5.33								P
MW-5	25-Jul-02	5428.97		5.73			7.8	4.78	1.18	69		P
MW-5	21-Nov-02	5428.97		5.43								
MW-5	05-Jun-03	5428.97		5.02			8.0	3.07	1.44	59.4		B
MW-5	19-Jan-04	5428.97		5.25			7.7	1.14	2.61	47.6		P
MW-5	25-May-04	5428.97		5.04			7.5	3.21	0.45	60.4		3.00
MW-5	27-Jul-04	5428.97		5.43			8.1	4.07		75.5		B
MW-5	28-Dec-04	5428.97		5.26			8.0					MP
MW-5	31-Mar-05	5428.97		4.62			7.3	2.77	0.39	52.7		MP
MW-5	19-Sep-05	5428.97	DRY	DRY	DRY		NM	NM	NM	NM		
MW-5	5-Jan-06	5428.97	DRY	DRY	DRY		NM	NM	NM	NM		
MW-5	27-Jun-06	5428.97		5.43			7.2	4.197	0.37	16		3

TABLE 1
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MW-5	28-Dec-06	5428.97		4.88			7.3	7.927	0.54	10.4		3
MW-5	3-Jul-07	5428.97		5.07			7.86	4.478	2.93	16.4		1.7
MW-5	18-Dec-07	5428.97	Not Sampled - Filled with Roots									
MW-5	19-Dec-08	5428.97		5.04		5423.93	6.76	7.748	4.02	11.73		0.25
MW-5	19-Dec-08	5428.97		5.04		5423.93	6.76	7.748	4.02	11.73		0.25
MW-5	18-Feb-10	5428.97		4.73		5424.24	7.39	8.422	3.30	9.93	403.1	3.00
MW-5	12-May-10	5428.97		4.32		5424.65	7.35	6.146	2.68	11.52	225.3	3.75
MW-5	18-Aug-10	5428.97		4.99		5423.98	NM	NM	NM	NM	NM	NM
MW-5	17-Nov-10	5428.97		5.17		5423.80	7.62	6.121	1.36	14.15	-46.2	3.00
MW-5	17-Feb-11	5428.97		5.08		5423.89	NM	NM	NM	NM	NM	NM
MW-5	17-May-11	5428.97		5.03		5423.94	NM	NM	NM	NM	NM	NM
MW-5	24-Aug-11	5428.97		5.69		5423.28	NM	NM	NM	NM	NM	NM
MW-5	16-Nov-11	5428.97		5.64		5423.33	NM	NM	NM	NM	NM	NM
MW-7	1-Feb-02	5435.28		5.32		37288.00						No Sample
MW-7	29-Jul-02	5435.28		6.11		37466.00						No Sample
MW-7	6-Jun-03	5435.28		9.06		37778.00						No Sample
MW-7	19-Jan-04	5435.28		9.06		38005.00	7.0	2.827	0.93	49.7		P
MW-7	25-May-04	5435.28		9.14		38132.00	6.8	3.76	0.27	63.2		3
MW-7	27-Jul-04	5435.28		9.08		38195.00	7.3	5.32		72.8		B
MW-7	28-Dec-04	5435.28		9.05		38349.00	7.8					MP
MW-7	31-Mar-05	5435.28		7.67		38442.00	6.5	3.011	0.5	52		MP
MW-7	19-Sep-05	5435.28		9.20		38614.00	7.0	4.802	0.41	70.8		
MW-7	4-Jan-06	5435.28		8.14		38721.00	7.0	3.625	0.48	14.5		3
MW-7	02-Jan-07	5435.28		8.75		39084.00	NM	NM	NM	NM		No Sample
MW-7	19-Dec-07	5435.28		8.43		39435.00	NM	NM	NM	NM		No Sample
MW-7	17-May-10	5435.28		8.50		5426.78	6.95	6.66	3.08	13.83	217.6	3.75

TABLE 1
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MW-7	19-Aug-10	5435.28		8.20		5427.08	7.07	5.994	1.33	20.45	325.3	2.50
MW-7	15-Nov-10	5435.28		8.83		5426.45	NM	NM	NM	NM	NM	No Sample
MW-7	17-Feb-11	5435.28		8.76		5426.52	NM	NM	NM	NM	NM	NM
MW-7	17-May-11	5435.28		8.58		5426.70	NM	NM	NM	NM	NM	NM
MW-7	24-Aug-11	5435.28		9.03		5426.25	NM	NM	NM	NM	NM	NM
MW-7	16-Nov-11	5435.28		8.86		5426.42	NM	NM	NM	NM	NM	NM
MW-20	31-Jan-02	5430.45		6.04								P
MW-20	26-Jul-02	5430.45		6.31			7.2	2.95	1.22	79.6		P
MW-20	20-Nov-02	5430.45		5.85			7.1	1.9	0.30	55.0		P
MW-20	5-Jun-03	5430.45		5.89			7.1	3.43	1.58	58.1		
MW-20	20-Jan-04	5430.45		6.08			7.5	0.35	3.23	51.8		P
MW-20	25-May-04	5430.45		5.90			7.1	4.01	1.2	72.3		1.5
MW-20	27-Jul-04	5430.45		6.29			7.0	5.12		66.1		B
MW-20	29-Dec-04	5430.45		6.07								MP
MW-20	1-Apr-05	5430.45		5.69			6.5	2.378	0.55	54.4		
MW-20	19-Sep-05	5430.45		6.02			7.0	3.466	0.37	66.1		
MW-20	4-Jan-06	5430.45		5.85			7.0	3.47	0.6	12.3		3
MW-20	28-Jun-06	5430.45		6.18			6.7	4.979	0.34	17.8		3
MW-20	28-Dec-06	5430.45		5.50			7.0	8.505	0.51	8.9		3
MW-20	2-Jul-07	5430.45		5.75			7.0	4.841	1.32	16.09		2.6
MW-20	18-Dec-07	5430.45		5.89			7.05	5.621	2.89	12.10		1.25
MW-20	21-Jan-09	5430.45		5.86			6.73	5.996	3.58	8.34		0.5
MW-20	18-Feb-10	5430.45		5.81		5424.64	6.67	7.249	3.67	8.20	395.0	2.50
MW-20	13-May-10	5430.45		5.52		5424.93	6.96	4.948	2.09	10.89	216.9	3.75
MW-20	20-Aug-10	5430.45		6.01		5424.44	7.12	4.836	1.09	18.44	236.4	2.50
MW-20	17-Nov-10	5430.45		6.05		5424.40	6.94	5.167	0.40	13.63	-7.7	0.50

TABLE 1
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MW-20	23-Feb-11	5430.45		5.92		5424.53	NM	NM	NM	NM	NM	NM
MW-20	18-May-11	5430.45		5.88		5424.57	6.99	3.637	0.69	11.33	-10.6	2.00
MW-20	24-Aug-11	5430.45		6.35		5424.10	NM	NM	NM	NM	NM	NM
MW-20	22-Nov-11	5430.45		6.22		5424.23	7.20	4.983	1.02	12.81	-22.1	1.00
MW-21	30-Jan-02	5428.62		3.41								P
MW-21	26-Jul-02	5428.62		4.15								
MW-21	22-Nov-02	5428.62		3.51			7.1	7.58	0.55	55.0		P
MW-21	5-Jun-03	5428.62		3.21			7.2	7.79	0.95	65.4		
MW-21	20-Jan-04	5428.62		3.57			7.4	0.31	3.40	46.7		P
MW-21	25-May-04	5428.62		3.49			7.2	7.56	0.49	64.5		2.5
MW-21	28-Jul-04	5428.62		4.12			7.3	11.42		67.1		B
MW-21	29-Dec-04	5428.62		3.36								MP
MW-21	1-Apr-05	5428.62		2.77			6.7	5.747	0.28	50.9		
MW-21	19-Sep-05	5428.62		3.84			7.2	8.598	0.39	67.8		
MW-21	4-Jan-06	5428.62		3.27			7.1	6.118	0.77	11.9		3
MW-21	28-Jun-06	5428.62		3.81			6.8	9.223	0.32	19.8		3
MW-21	02-Jan-07	5428.62		3.23			6.7	9.393	0.9	8.2		3
MW-21	02-Jul-07	5428.62		3.54			7.0	9.066	0.86	18.74		2.7
MW-21	18-Dec-07	5428.62		3.54			7.12	8.043	0.62	12.90		3.25
MW-21	19-Dec-08	5428.62		3.43			6.79	7.562	9.78	11.04		1.25
MW-21	18-Feb-10	5428.62		2.86		5425.76	6.82	9.049	8.21	7.91	367.2	3.00
MW-21	13-May-10	5428.62		2.69		5425.93	7.06	7.075	1.74	12.41	224.9	3.75
MW-21	20-Aug-10	5428.62		3.31		5425.31	7.06	6.836	1.09	21.23	234.4	NM
MW-21	17-Nov-10	5428.62		3.68		5424.94	7.02	7.817	0.56	15.42	-12.0	0.50
MW-21	23-Feb-11	5428.62		3.65		5424.97	NM	NM	NM	NM	NM	NM
MW-21	18-May-11	5428.62		3.52		5425.10	7.07	5.026	1.05	13.05	-14.8	2.00

TABLE 1

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*	*Corrected GW Elev. (ft)*	*pH*	*Conductivity (mS)*	*Dissolved Oxygen (mg/L)*	*Temp. (°C)*	*ORP (mV)*	*Purge Volume (gallons)*
MW-21	24-Aug-11	5428.62		4.04		5424.58	NM	NM	NM	NM	NM	NM
MW-21	22-Nov-11	5428.62		3.64		5424.98	7.16	6.972	1.09	13.16	-20.1	1.00

NOTES: NM - Not Measured

* Denotes erroneous DO measurement - sensor malfunction

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs ,TOTAL PETROLEUM HYDROCARBONS, and TDS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naph-thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-1	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA
TW-1	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	**2,530**
TW-2	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA
TW-2	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	**4,020**
TW-3	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA
TW-3	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	**4,170**
TW-4	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA
TW-4	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	**6,530**
TW-5	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA
TW-5	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	**3,180**
TW-6	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA
TW-6	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	**4,020**
TW-7	15-Dec-08	**67**	**1,700**	710	**4,200**	<10	**308**	15	2.1	<5.0	NA
TW-7	19-Aug-09	3.8	11	98	15	<1.0	19	0.79	<1.0	<5.0	**3,930**
TW-7	18-May-11	<5.0	23	310	37	<5.0	**49**	NA	NA	NA	**4,330**
TW-7	17-Nov-11	1.5	19	100	45	<1.0	25	1.40	<1.0	<5.0	**4,230**

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs ,TOTAL PETROLEUM HYDROCARBONS, and TDS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naph-thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-8	16-Dec-08	**120**	15	330	**950**	<5.0	**92**	8.9	1.4	<5.0	NA
TW-8	19-Aug-09	**26**	<1.0	82	130	<1.0	<2.0	1.7	<1.0	<5.0	**4,490**
TW-8	18-May-11	**32**	<5.0	150	130	<5.0	<10	NA	NA	NA	**4,140**
TW-9	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA
TW-9	20-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	**2,070**
TW-10	16-Dec-08	1.4	<1.0	3.9	9.9	<1.0	<10	0.29	<1.0	<5.0	NA
TW-10	20-Aug-09	<1.0	<1.0	1.1	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	**3,250**
TW-11	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA
TW-11	20-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	**6,290**
TW-11	17-Feb-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0	**6,260**
TW-11	11-May-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0	**6,400**
TW-11	17-Nov-11	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0	NA
TW-12	15-Dec-08	6.9	33	670	**1,700**	<5.0	**317**	3.4	1.9	<5.0	NA
TW-12	20-Aug-09	<1.0	<1.0	19	25	<1.0	<2.0	0.25	<1.0	<5.0	**3,490**
TW-12	17-Feb-10	1.3	<1.0	35	48	<1.0	2.4	0.43	<1.0	<5.0	**3,470**
TW-12	11-May-10	1.7	2.0	49	72	<1.0	<2.0	0.18	1.2	<5.0	**3,340**
TW-12	19-Aug-10	1.4	<1.0	53	65	<1.0	<2.0	0.40	<1.0	<5.0	**3,300**
TW-13	17-Dec-08	**Not Sampled-NAPL present**									

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs ,TOTAL PETROLEUM HYDROCARBONS, and TDS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naph-thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-13	21-Aug-09	Not Sampled-NAPL present									
TW-13	17-Feb-10	Not Sampled-NAPL present									
TW-13	7-May-10	Not Sampled-NAPL present									
TW-13	18-Aug-10	Not Sampled-NAPL present									
TW-13	15-Nov-10	Not Sampled-NAPL present									
TW-13	18-May-11	Not Sampled-NAPL present (sheen)									
TW-13	15-Nov-11	Not Sampled-NAPL present									
TW-14	17-Dec-08	Not Sampled-NAPL present									
TW-14	21-Aug-09	Not Sampled-NAPL present									
TW-14	17-Feb-10	Not Sampled-NAPL present									
TW-14	11-May-10	Not Sampled-NAPL present (sheen)									
TW-14	18-Aug-10	Not Sampled-NAPL present									
TW-14	18-May-11	Not Sampled-NAPL present (sheen)									
TW-14	15-Nov-11	Not Sampled-NAPL present									
TW-15	16-Dec-08	**22**	9.2	190	10	<1.0	10	1.1	1.2	<5.0	NA
TW-15	20-Aug-09	6.2	1.7	94	<1.5	<1.0	<2.0	0.69	<1.0	<5.0	**5,240**
TW-16	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA
TW-16	20-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	**4,240**
TW-17	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs ,TOTAL PETROLEUM HYDROCARBONS, and TDS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naph-thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-17	21-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	4,640
TW-18	16-Dec-08	8.9	<1.0	31	18	1.9	<10	0.70	<1.0	<5.0	NA
TW-18	21-Aug-09	2.5	<1.0	12	<1.5	3.2	<2.0	0.11	<1.0	<5.0	4,440
TW-18	17-Feb-10	8.0	<1.0	38	12	1.2	<2.0	0.37	<1.0	<5.0	4,440
TW-18	11-May-10	3.1	<1.0	21	<2.0	2.5	<2.0	0.21	<1.0	<5.0	4,860
TW-18	16-Nov-10	1.8	5.5	15	<1.5	1.6	<2.0	0.12	<1.0	<5.0	4,790
TW-18	17-Nov-11	1.9	<1.0	13	<2.0	<1.0	<2.0	0.12	<1.0	<5.0	5,360
TW-19	17-Dec-08	Not Sampled-NAPL present									
TW-19	21-Aug-09	Not Sampled-NAPL present									
TW-19	17-Feb-10	Not Sampled-Surface Casing Damaged									
TW-19	7-May-10	Not Sampled-NAPL present									
TW-19	18-Aug-10	Not Sampled-NAPL present (sheen)									
TW-19	15-Nov-10	Not Sampled-NAPL present									
TW-19	18-May-11	Not Sampled-NAPL present									
TW-19	15-Nov-11	Not Sampled-NAPL present									
TW-20	17-Dec-08	Not Sampled-NAPL present									
TW-20	21-Aug-09	Not Sampled-NAPL present									
TW-20	17-Feb-10	Not Sampled-NAPL present									
TW-20	7-May-10	Not Sampled-NAPL present									
TW-20	18-Aug-10	Attached to RSI Unit									

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs ,TOTAL PETROLEUM HYDROCARBONS, and TDS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naph-thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-20	18-Aug-10	Not Sampled-NAPL present									
TW-20	18-May-11	Not Sampled-NAPL present									
TW-20	15-Nov-11	Not Sampled-NAPL present									
TW-21	17-Dec-08	Not Sampled-NAPL present									
TW-21	21-Aug-09	Not Sampled-NAPL present									
TW-21	17-Feb-10	Not Sampled-Surface Casing Damaged									
TW-21	7-May-10	Not Sampled-Surface Casing Damaged									
TW-21	18-Aug-10	Not Sampled-Surface Casing Damaged									
TW-21	15-Nov-10	Not Sampled-Surface Casing Damaged									
TW-21	18-May-11	Not Sampled-Surface Casing Damaged									
TW-22	17-Dec-08	Not Sampled-NAPL present									
TW-22	21-Aug-09	Not Sampled-NAPL present									
TW-22	17-Feb-10	Not Sampled-NAPL present									
TW-22	7-May-10	Not Sampled-NAPL present									
TW-22	18-Aug-10	Not Sampled-NAPL present									
TW-22	15-Nov-10	Not Sampled-NAPL present									
TW-22	18-May-11	Not Sampled-NAPL present									
TW-22	15-Nov-11	Not Sampled-NAPL present									
TW-23	18-Dec-08	<1.0	<1.0	93	<1.5	<1.0	<10	0.77	1.4	<5.0	NA
TW-23	21-Aug-09	<1.0	<1.0	24	<1.5	<1.0	<2.0	0.34	<1.0	<5.0	**5,440**

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs ,TOTAL PETROLEUM HYDROCARBONS, and TDS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naph-thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-24	17-Dec-08	7.5	<1.0	10	<1.5	5.6	2.6	0.26	<1.0	<5.0	NA
TW-24	21-Aug-09	Not Sampled-NAPL present									
TW-24	17-Feb-10	1.7	<1.0	7.0	<2.0	4.3	<2.0	0.62	2.4	<5.0	**4,170**
TW-24	11-May-10	9.1	<1.0	25	<2.0	3.8	3.0	0.92	8.7	<5.0	**4,280**
TW-24	18-Aug-10	Not Sampled-NAPL present (sheen)									
TW-24	15-Nov-10	Not Sampled-NAPL present									
TW-24	18-May-11	Not Sampled-NAPL present									
TW-24	15-Nov-11	Not Sampled-NAPL present									
TW-25	17-Dec-08	Not Sampled-NAPL present									
TW-25	21-Aug-09	Not Sampled-NAPL present									
TW-25	17-Feb-10	Not Sampled-NAPL present									
TW-25	7-May-10	Not Sampled-NAPL present									
TW-25	18-Aug-10	Not Sampled-NAPL present									
TW-25	15-Nov-10	Not Sampled-NAPL present									
TW-25	18-May-11	Not Sampled-NAPL present									
TW-25	15-Nov-11	Not Sampled-NAPL present									
TW-26	17-Dec-08	Not Sampled-NAPL present									
TW-26	21-Aug-09	Not Sampled-NAPL present									
TW-26	17-Feb-10	Not Sampled-NAPL present									
TW-26	7-May-10	Not Sampled-NAPL present									

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs ,TOTAL PETROLEUM HYDROCARBONS, and TDS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naph-thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-26	18-Aug-10	Not Sampled-NAPL present									
TW-26	15-Nov-10	Not Sampled-NAPL present									
TW-26	18-May-11	Not Sampled-NAPL present									
TW-26	15-Nov-11	Not Sampled-NAPL present									
TW-28	17-Dec-08	Not Sampled-NAPL present									
TW-28	21-Aug-09	Not Sampled-NAPL present									
TW-28	17-Feb-10	Not Sampled-NAPL present									
TW-28	7-May-10	Not Sampled-NAPL present									
TW-28	18-Aug-10	Not Sampled-NAPL present									
TW-28	15-Nov-10	Not Sampled-NAPL present									
TW-28	18-May-11	Not Sampled-NAPL present									
TW-28	15-Nov-11	Not Sampled-NAPL present									
TW-29	17-Dec-08	Not Sampled-NAPL present									
TW-29	21-Aug-09	Not Sampled-NAPL present									
TW-29	17-Feb-10	**34**	<1.0	16	260	7.9	**40**	2.7	13	<5.0	**3,250**
TW-29	7-May-10	Not Sampled-NAPL present									
TW-29	18-Aug-10	Not Sampled-NAPL present									
TW-29	15-Nov-10	Not Sampled-NAPL present									
TW-29	18-May-11	Not Sampled-NAPL present									
TW-29	15-Nov-11	Not Sampled-NAPL present									

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs ,TOTAL PETROLEUM HYDROCARBONS, and TDS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naph-thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-30	18-Dec-08	<1.0	<1.0	<1.0	<1.5	24	<10	0.087	2.8	<5.0	NA
TW-30	21-Aug-09	<1.0	<1.0	<1.0	<1.5	20	<2.0	0.055	<1.0	<5.0	**4,550**
TW-30	17-Feb-10	<1.0	<1.0	<1.0	<2.0	21	<2.0	0.056	<1.0	<5.0	**4,290**
TW-30	11-May-10	<1.0	<1.0	<1.0	<2.0	21	<2.0	0.071	<1.0	<5.0	**4,310**
TW-30	15-Nov-10	3.8	<1.0	<1.0	<1.5	14	<2.0	0.15	<1.0	<5.0	**5,630**
TW-30	17-Nov-11	4.9	<1.0	<1.0	<2.0	7.9	<2.0	0.16	<1.0	<5.0	**6,310**
TW-31	16-Dec-08	<1.0	<1.0	<1.0	<1.5	12	<10	<0.050	<1.0	<5.0	NA
TW-31	21-Aug-09	<1.0	<1.0	<1.0	<1.5	16	<2.0	<0.050	<1.0	<5.0	**4,790**
TW-31	17-Feb-10	<1.0	<1.0	<1.0	<2.0	10	<2.0	<0.050	<1.0	<5.0	**4,690**
TW-31	11-May-10	<1.0	<1.0	<1.0	<2.0	9.2	<2.0	<0.050	<1.0	<5.0	**5,280**
TW-31	16-Nov-10	<1.0	<1.0	<1.0	<1.5	6.5	<2.0	<0.050	<1.0	<5.0	**4,680**
TW-31	17-Nov-11	<1.0	<1.0	<1.0	<2.0	1.7	<2.0	<0.050	<1.0	<5.0	
TW-32	17-Dec-08	**Not Sampled-NAPL present**									
TW-32	21-Aug-09	**Not Sampled-NAPL present**									
TW-32	17-Feb-10	**Not Sampled-NAPL present**									
TW-32	7-May-10	**Not Sampled-NAPL present**									
TW-32	18-Aug-10	**Not Sampled-NAPL present**									
TW-32	15-Nov-10	**Not Sampled-NAPL present**									
TW-32	18-May-11	**Not Sampled-NAPL present**									
TW-32	15-Nov-11	**Not Sampled-NAPL present**									

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs ,TOTAL PETROLEUM HYDROCARBONS, and TDS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naph-thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-33	17-Dec-08	Not Sampled-NAPL present									
TW-33	21-Aug-09	Not Sampled-NAPL present									
TW-33	17-Feb-10	Not Sampled-NAPL present									
TW-33	7-May-10	Not Sampled-NAPL present									
TW-33	18-Aug-10	Not Sampled-NAPL present									
TW-33	15-Nov-10	Not Sampled-NAPL present									
TW-33	18-May-11	Not Sampled-NAPL present									
TW-33	15-Nov-11	Not Sampled-NAPL present									
TW-34	18-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA
TW-34	24-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	**5,460**
TW-34	18-Feb-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0	**5,520**
TW-34	12-May-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0	**5,470**
TW-34	22-Nov-11	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0	**5,420**
TW-35	18-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA
TW-35	24-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	**6,700**
TW-35	18-Feb-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0	**6,870**
TW-35	12-May-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0	**6,250**
TW-35	17-Nov-10	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	**6,770**
TW-35	22-Nov-11	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0	**7,180**
TW-36	18-Dec-08	<1.0	<1.0	16	22	<1.0	**91.9**	0.30	4.3	<5.0	

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs ,TOTAL PETROLEUM HYDROCARBONS, and TDS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naph-thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-36	21-Aug-09	Not Sampled-NAPL present									
TW-36	17-Feb-10	Not Sampled-NAPL present									
TW-36	12-May-10	<1.0	<1.0	6.5	11	<1.0	<2.0	0.18	6.1	<5.0	**5,750**
TW-36	18-Aug-10	Not Sampled-NAPL present									
TW-36	15-Nov-10	Not Sampled-NAPL present									
TW-36	18-May-11	Not Sampled-NAPL present									
TW-36	15-Nov-11	Not Sampled-NAPL present									
TW-37	17-Dec-08	**820**	<50	560	**1,800**	**180**	<500	8.4	19	<5.0	NA
TW-37	21-Aug-09	**250**	<5.0	51	32	**180**	<10	1.7	1.2	<5.0	**3,740**
TW-37	18-Feb-10	**290**	<5.0	53	61	**130**	<10	2.0	1.4	<5.0	**3,400**
TW-37	11-May-10	**490**	<5.0	150	140	**150**	<10	3.8	4.3	<5.0	**3,250**
TW-37	19-Aug-10	**310**	<5.0	65	53	**140**	<10	3.2	22	9.6	**3,360**
TW-37	16-Nov-10	**280**	<1.0	58	46	**120**	<2.0	1.9	2.3	<5.0	**3,380**
TW-37	18-May-11	**420**	<5.0	21	<10	**230**	<10	NA	NA	NA	**3,680**
TW-37	22-Nov-11	**210**	<1.0	<1.0	5	**110**	<2.0	1.7	2	<5.0	NA
TW-38	17-Dec-08	**140**	<5.0	36	220	**190**	<50	0.99	<1.0	<5.0	NA
TW-38	21-Aug-09	Not Sampled-NAPL present									
TW-38	18-Feb-10	**26**	<1.0	6.3	18	88	<2.0	0.50	<1.0	<5.0	**4,070**
TW-38	12-May-10	**63**	<1.0	15	50	**110**	3.5	0.67	<1.0	<5.0	**4,210**
TW-38	19-Aug-10	**140**	<1.0	30	58	95	2.2	1.20	<1.0	<5.0	**3,910**
TW-38	16-Nov-10	**140**	<1.0	41	71	83	<2.0	1.1	<1.0	<5.0	**3,930**

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs ,TOTAL PETROLEUM HYDROCARBONS, and TDS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naph-thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-38	18-May-11	**37**	<5.0	6.1	22	**140**	<10	NA	NA	NA	**4,010**
TW-38	15-Nov-11	**Not Sampled-NAPL present**									
TW-39	17-Dec-08	**Not Sampled-NAPL present**									
TW-39	21-Aug-09	1.7	<1.0	2.8	<1.5	16	<2.0	0.47	<1.0	<5.0	**4,460**
TW-39	17-Feb-10	2.6	<1.0	2.5	3.5	9.8	<2.0	0.45	<1.0	<5.0	**3,580**
TW-39	12-May-10	**17**	<1.0	32	14	19	<2.0	0.45	<1.0	<5.0	**4,740**
TW-39	19-Aug-10	**87**	<1.0	77	100	1.5	2.9	1.2	<1.0	<5.0	**3,290**
TW-39	16-Nov-10	**92**	<1.0	110	1.8	5.9	<2.0	1.4	<1.0	<5.0	**3,070**
TW-39	19-May-11	**41**	<5.0	65	<10	<5.0	<10	NA	NA	NA	**3,980**
TW-39	17-Nov-11	9	<5.0	82	<10	<5.0	<10	1.4	<1.0	<5.0	NA
TW-40	17-Dec-08	**Not Sampled-NAPL present**									
TW-40	21-Aug-09	**Not Sampled-NAPL present**									
TW-40	17-Feb-10	**Not Sampled-NAPL present**									
TW-40	7-May-10	**Not Sampled-NAPL present**									
TW-40	18-Aug-10	**Not Sampled-NAPL present**									
TW-40	15-Nov-10	**Not Sampled-NAPL present**									
TW-40	18-May-11	**Not Sampled-NAPL present**									
TW-40	15-Nov-11	**Not Sampled-NAPL present**									
TW-41	18-Dec-08	**480**	<50	570	**4,000**	<50	<500	8.4	2.0	<5.0	NA
TW-41	24-Aug-09	**170**	6.6	400	**2,000**	24	**49**	7.0	1.1	<5.0	**3,510**

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs ,TOTAL PETROLEUM HYDROCARBONS, and TDS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naph-thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-41	18-Feb-10	**140**	<10	400	**2,500**	24	**49**	7.7	1.5	<5.0	**4,230**
TW-41	12-May-10	**180**	<10	530	**2,300**	20	**41**	6.9	<3.0	<15	**4,590**
TW-41	20-Aug-10	**190**	<10	420	**1,400**	24	**43**	8.2	<1.0	<5.0	**3,880**
TW-41	16-Nov-10	**96**	<10	480	**2,200**	17	**55**	6.6	1.4	<5.0	**3,670**
TW-41	18-May-11	**110**	8.5	500	**2,700**	22	**70**	NA	NA	NA	**3,940**
TW-41	22-Nov-11	**110**	<10	470	**1,800**	13	**68**	10	2.3	<5.0	**3,300**
TW-42	16-Dec-08	<1.0	<1.0	31	<1.5	**130**	<10	0.18	1.2	<5.0	NA
TW-42	24-Aug-09	<1.0	<1.0	<1.0	<1.5	70	<2.0	0.10	<1.0	<5.0	**4,260**
TW-42	18-Feb-10	<1.0	<1.0	<1.0	<2.0	75	<2.0	0.15	<1.0	<5.0	**4,070**
TW-42	12-May-10	<1.0	<1.0	<1.0	<2.0	39	<2.0	0.15	<1.0	<5.0	**4,510**
TW-42	20-Aug-10	<1.0	<1.0	<1.0	<2.0	57	<2.0	0.16	<1.0	<5.0	**4,920**
TW-42	16-Nov-10	<1.0	<1.0	<1.0	<1.5	53	<2.0	0.16	<1.0	<5.0	**5,040**
TW-42	18-May-11	<5.0	<5.0	<5.0	<10	**600**	<10	NA	NA	NA	**4,720**
TW-42	22-Nov-11	<1.0	<1.0	<1.0	<2.0	53	<2.0	0.17	<1.0	<5.0	NA
TW-43	16-Dec-08	<1.0	<1.0	31	<1.5	**1,700**	<10	0.80	<1.0	<5.0	
TW-43	24-Aug-09	<1.0	<1.0	<1.0	<1.5	**500**	<10	0.17	<1.0	<5.0	**4,610**
TW-43	18-Feb-10	<1.0	<1.0	<1.0	<2.0	**430**	<2.0	0.37	<1.0	<5.0	**4,390**
TW-43	12-May-10	<1.0	<1.0	<1.0	<2.0	**380**	<2.0	0.31	<1.0	<5.0	**4,200**
TW-43	20-Aug-10	<1.0	<1.0	<1.0	<2.0	**380**	<2.0	0.38	<1.0	<5.0	**4,510**
TW-43	16-Nov-10	<1.0	<1.0	<1.0	<1.5	**370**	<2.0	0.48	<1.0	<5.0	**4,450**
TW-43	22-Nov-11	<1.0	1.1	<1.0	<2.0	**460**	<2.0	0.41	<1.0	<5.0	NA

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs ,TOTAL PETROLEUM HYDROCARBONS, and TDS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naph-thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-44	17-Dec-08	**58**	<5.0	69	340	**330**	**245**	2.0	1.8	<5.0	NA
TW-44	24-Aug-09	**56**	<1.0	6.9	7.3	**360**	<2.0	0.20	1.2	<5.0	**5,520**
TW-44	18-Feb-10	**Not Sampled-NAPL present**									
TW-44	7-May-10	**Not Sampled-NAPL present**									
TW-44	18-Aug-10	**Not Sampled-NAPL present**									
TW-44	15-Nov-10	**Not Sampled-NAPL present**									
TW-44	18-May-11	**Not Sampled-NAPL present**									
TW-44	15-Nov-11	**Not Sampled-NAPL present**									
TW-45	13-May-10	<1.0	<1.0	<1.0	<2.0	**160**	<2.0	0.20	<1.0	<5.0	**4,480**
TW-45	20-Aug-10	<1.0	<1.0	<1.0	<2.0	**300**	<2.0	0.33	<1.0	<5.0	**4,750**
TW-45	17-Nov-10	<1.0	<1.0	<1.0	<1.5	**170**	<2.0	0.23	<1.0	<5.0	**4,530**
TW-45	18-May-11	<5.0	<5.0	<5.0	<10	**630**	<10	NA	NA	NA	**4,700**
TW-46	13-May-10	<1.0	<1.0	<1.0	<2.0	**110**	<2.0	0.14	<1.0	<5.0	**4,080**
TW-46	20-Aug-10	<1.0	<1.0	<1.0	<2.0	88	<2.0	0.13	<1.0	<5.0	**4,430**
TW-46	18-May-11	<5.0	<5.0	<5.0	<10	**160**	<10	NA	NA	NA	**3,640**
TW-46	22-Nov-11	<1.0	<1.0	<1.0	<2.0	35	<2.0	0.054	<1.0	<5.0	NA
TW-47	13-May-10	<1.0	<1.0	<1.0	<2.0	9.4	<2.0	<0.050	<1.0	<5.0	**10,000**
TW-47	20-Aug-10	<1.0	<1.0	<1.0	<2.0	18	<2.0	<0.050	<1.0	<5.0	**9,940**
TW-47	17-Nov-10	<1.0	<1.0	<1.0	<1.5	8.2	<2.0	<0.050	<1.0	<5.0	**8,800**

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs ,TOTAL PETROLEUM HYDROCARBONS, and TDS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naph-thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-47	22-Nov-11	<1.0	<1.0	<1.0	<2.0	1.5	<2.0	<0.050	<1.0	<5.0	10,700
TW-48	12-May-10	<1.0	<1.0	<1.0	<2.0	13	<2.0	0.061	<1.0	<5.0	4,560
TW-48	19-Aug-10	<1.0	<1.0	<1.0	<2.0	16	<2.0	0.067	<1.0	<5.0	4,440
TW-49	17-May-10	<1.0	<1.0	<1.0	<2.0	17	<2.0	<0.050	<1.0	<5.0	5,580
TW-49	20-Aug-10	<1.0	<1.0	<1.0	<2.0	14	<2.0	<0.050	<1.0	<5.0	8,120
TW-49	17-Nov-10	<1.0	<1.0	<1.0	<1.5	28	<2.0	0.12	<1.0	<5.0	7,470
TW-50	12-May-10	72	<10	260	1,200	16	63	7.7	4.0	<5.0	4,320
TW-50	19-Aug-10	6.9	<5.0	69	100	19	<10	2.4	<1.0	<5.0	4,500
TW-50	18-May-11	13	<5.0	150	190	<5.0	<10	NA	NA	NA	4,150
TW-50	17-Nov-11	<1.0	<1.0	14	10	18	<2.0	0.84	<1.0	<5.0	4,160
MW-5	30-Jan-02	5.1	<0.5	<0.5	<1.50	43	NA	NA	NA	NA	NA
MW-5	25-Jul-02	4.7	ND	ND	ND	51	NA	NA	NA	NA	NA
MW-5	26-Nov-02	5.1	ND	ND	ND	47	NA	NA	NA	NA	NA
MW-5	5-Jun-03	1.5	ND	ND	ND	25	NA	NA	NA	NA	NA
MW-5	3-Nov-03	ND	ND	ND	ND	26	NA	NA	NA	NA	NA
MW-5	19-Jan-04	3.8	0.9	<0.5	1.4	44	NA	NA	NA	NA	NA
MW-5	25-May-04	1.8	0.5	<0.5	<1.0	36	NA	0.14	NA	NA	NA
MW-5	27-Jul-04	<0.5	<0.5	<0.5	<1.0	29	NA	<0.10	NA	NA	NA
MW-5	28-Dec-04	<0.5	<0.5	<0.5	<1.0	27	NA	<0.10	NA	NA	NA

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs ,TOTAL PETROLEUM HYDROCARBONS, and TDS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naph-thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
MW-5	27-Jun-06	1.5	<0.5	<0.5	<2.0	37	NA	<0.10	<2.5	NA	NA
MW-5	28-Dec-06	<0.5	<0.5	<0.5	<2.0	37	NA	<0.10	<1.0	NA	NA
MW-5	5-Jul-07*	2.4	<0.5	0.8	<2.0	28*	NA	0.14	<2.0	NA	NA
MW-5	19-Dec-08	<1.0	<1.0	<1.0	<1.5	46	<10	0.066	<1.0	<5.0	NA
MW-5	18-Feb-10	<1.0	<1.0	<1.0	<2.0	49	<2.0	0.12	<1.0	<5.0	4,350
MW-5	12-May-10	<1.0	<1.0	<1.0	<2.0	63	<2.0	0.10	<1.0	<5.0	4,590
MW-5	17-Nov-10	<1.0	<1.0	<1.0	<1.5	54	<2.0	0.11	<1.0	<5.0	4,630
MW-7	4-Jan-06*	1.9	<0.5	1.7	2.1	120	NA	0.16	<1.0	NA	NA
MW-7	17-May-10	17	<1.0	<1.0	<2.0	23	<2.0	0.14	<1.0	<5.0	5,480
MW-7	19-Aug-10	6.9	<1.0	<1.0	<2.0	74	<2.0	0.22	<1.0	<5.0	4,720
MW-20	30-Jan-02	1.6	3.7	6.3	1.2	670	NA	NA	NA	NA	NA
MW-20	26-Jul-02	ND	ND	ND	ND	950	NA	NA	NA	NA	NA
MW-20	26-Nov-02	1.6	ND	ND	2	350	NA	NA	NA	NA	NA
MW-20	5-Jun-03	7	ND	7.1	7.2	630	NA	NA	NA	NA	NA
MW-20	4-Nov-03	3.2	ND	ND	5.1	480	NA	NA	NA	NA	NA
MW-20	19-Jan-04	2.8	<0.5	1.4	3.3	680	NA	NA	NA	NA	NA
MW-20	25-May-04	1.9	<0.5	3.3	7.6	400	NA	0.82	NA	NA	NA
MW-20	27-Jul-04	2.1	<0.5	<0.5	2.3	590	NA	0.91	NA	NA	NA
MW-20	29-Dec-04	2.0	<0.5	<0.5	7.2	300	NA	0.89	NA	NA	NA
MW-20	19-Sep-05	<2.5	<2.5	<2.5	5.4	160	NA	1.2	NA	NA	NA
MW-20	4-Jan-06	<0.5	<0.5	<0.5	<2.0	400	NA	0.50	<1.0	NA	NA

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs ,TOTAL PETROLEUM HYDROCARBONS, and TDS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naph-thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
MW-20	28-Jun-06	0.6	<0.5	<0.5	<2.0	**310**	NA	0.23	3.2	NA	NA
MW-20	28-Dec-06	<5.0	20	<5.0	<20	**170**	NA	1.6	<1.0	NA	NA
MW-20	3-Jul-07	<1.0	4.0	1.7	<4.0	**180***	NA	0.34	<2.0	NA	NA
MW-20	18-Dec-07*	<0.5	8.3	<0.5	3.6	**360**	NA	0.52	<2.0	NA	NA
MW-20	21-Jan-09	<1.0	<1.0	<1.0	<1.5	**170**	<10	0.47	1.8	<5.0	NA
MW-20	18-Feb-10	2.5	<1.0	<1.0	<2.0	**190**	<2.0	0.32	<1.0	<5.0	**4,420**
MW-20	13-May-10	1.7	<1.0	<1.0	<2.0	**180**	<2.0	0.60	<1.0	<5.0	**4,180**
MW-20	20-Aug-10	<1.0	<1.0	<1.0	<2.0	**200**	<2.0	0.50	<1.0	<5.0	**4,190**
MW-20	17-Nov-10	1.6	<1.0	<1.0	<1.5	**160**	<2.0	1.0	<1.0	<5.0	**3,950**
MW-20	18-May-11	<5.0	<5.0	<5.0	<1.5	<10	<10	NA	NA	NA	**4,260**
MW-20	22-Nov-11	<1.0	<1.0	<1.0	<2.0	**170**	<2.0	0.97	<1.0	<5.0	NA
MW-21	30-Jan-02	<0.5	<0.5	<0.5	<1.5	44	NA	NA	NA	NA	NA
MW-21	26-Jul-02	ND	ND	ND	ND	34	NA	NA	NA	NA	NA
MW-21	26-Nov-02	1.4	ND	ND	ND	34	NA	NA	NA	NA	NA
MW-21	5-Jun-03	ND	ND	ND	ND	14	NA	NA	NA	NA	NA
MW-21	4-Nov-03	ND	ND	ND	ND	25	NA	NA	NA	NA	NA
MW-21	19-Jan-04	<0.5	<0.5	<0.5	<1.0	<2.5	NA	NA	NA	NA	NA
MW-21	25-May-04	<0.5	<0.5	<0.5	<1.0	18	NA	0.11	NA	NA	NA
MW-21	28-Jul-04	<0.5	<0.5	<0.5	<1.0	24	NA	<0.10	NA	NA	NA
MW-21	29-Dec-04	<0.5	<0.5	<0.5	<1.0	25	NA	<0.10	NA	NA	NA
MW-21	19-Sep-05	<0.5	<0.5	<0.5	<1.0	29	NA	<0.10	NA	NA	NA
MW-21	4-Jan-06	<0.5	<0.5	<0.5	<2.0	24	NA	<0.10	<1.0	NA	NA

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
(VOCs ,TOTAL PETROLEUM HYDROCARBONS, and TDS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naph-thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
MW-21	28-Jun-06	2.9	<0.5	<0.5	<2.0	17	NA	<0.10	<2.5	NA	NA
MW-21	2-Jan-07	<0.5	<0.5	<0.5	<2.0	29	NA	<0.10	<1.0	NA	NA
MW-21	3-Jul-07	<0.5	<0.5	<0.5	<2.0	39*	NA	<0.10	<2.0	NA	NA
MW-21	18-Dec-07*	<0.5	<0.5	<0.5	<2.0	79	NA	<0.10	<2.0	NA	NA
MW-21	19-Dec-08	<1.0	<1.0	<1.0	<1.5	**100**	<10	0.11	<1.0	<5.0	NA
MW-21	18-Feb-10	<1.0	<1.0	<1.0	<2.0	85	<2.0	0.11	<1.0	<5.0	**5,220**
MW-21	13-May-10	<1.0	<1.0	<1.0	<2.0	82	<2.0	0.10	<1.0	<5.0	**5,840**
MW-21	20-Aug-10	<1.0	<1.0	<1.0	<2.0	**120**	<2.0	0.12	<1.0	<5.0	**5,520**
MW-21	17-Nov-10	<1.0	<1.0	<1.0	<1.5	83	<2.0	0.12	<1.0	<5.0	**6,270**
MW-21	18-May-11	<5.0	<5.0	<5.0	<1.5	**160**	<10	NA	NA	NA	**5,500**
MW-21	22-Nov-11	<1.0	<1.0	<1.0	<2.0	74	<2.0	0.11	<1.0	<5.0	NA

Notes:

*	Sample analyzed per EPA Method 8021 instead of EPA Method 8260
<	Analyte not detected above listed method limit
NA	Not analyzed
NE	Not established
ug/L	Micrograms per liter (ppb)
mg/L	Milligrams per liter (ppm)
GRO	Gasoline range organics
DRO	Diesel range organics
MRO	Motor oil range organics

TABLE 3
SUMMARY OF GROUNDWATER RCRA 8 METALS ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Sample Date	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Analytical Method		6010B	6010B	6010B	6010B	6010B	7470	6010B	6010B
NM WQCC Standard		0.10	1.0	0.01	0.05	0.05	0.002	0.05	0.005
TW-1	19-Aug-09	<0.020	0.036	<0.0020	0.01	0.018	<0.00020	<0.050	<0.0050
TW-2	19-Aug-09	<0.020	<0.020	<0.0020	<0.0060	0.0053	<0.00020	<0.050	<0.0050
TW-3	19-Aug-09	<0.020	<0.020	<0.0020	<0.0060	0.0058	<0.00020	<0.050	<0.0050
TW-4	19-Aug-09	<0.020	<0.020	<0.0020	<0.0060	0.0053	<0.00020	<0.050	<0.0050
TW-5	19-Aug-09	<0.020	<0.020	<0.0020	<0.0060	0.0050	<0.00020	<0.050	<0.0050
TW-6	19-Aug-09	<0.020	<0.020	<0.0020	<0.0060	0.011	<0.00020	<0.050	<0.0050
TW-7	19-Aug-09	<0.020	<0.020	<0.0020	<0.0060	0.011	<0.00020	<0.050	<0.0050
TW-7	17-Nov-11	<0.020	0.21	<0.0020	0.0064	<0.0050	<0.00020	<0.050	<0.0050
TW-8	20-Aug-09	<0.020	0.021	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-9	20-Aug-09	<0.020	0.033	<0.0020	<0.0060	0.0077	<0.00020	<0.050	<0.0050
TW-10	20-Aug-09	<0.020	0.038	<0.0020	<0.0060	0.021	<0.00020	<0.050	<0.0050
TW-11	20-Aug-09	<0.20	<0.20	<0.020	<0.060	<0.050	<0.00020	<0.50	<0.050
TW-12	20-Aug-09	<0.020	0.020	<0.0020	<0.0060	0.0072	<0.00020	<0.050	<0.0050
TW-15	20-Aug-09	<0.020	<0.020	<0.0020	<0.0060	0.0092	<0.00020	<0.050	<0.0050

TABLE 3
SUMMARY OF GROUNDWATER RCRA 8 METALS ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Sample Date	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Analytical Method		6010B	6010B	6010B	6010B	6010B	7470	6010B	6010B
NM WQCC Standard		0.10	1.0	0.01	0.05	0.05	0.002	0.05	0.005
TW-16	20-Aug-09	<0.020	0.047	<0.0020	<0.0060	0.0095	<0.00020	<0.050	<0.0050
TW-17	21-Aug-09	0.063	<0.020	<0.0020	<0.0060	0.0083	<0.00020	<0.050	<0.0050
TW-18	21-Aug-09	<0.020	<0.020	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-18	16-Nov-10	<0.020	<0.020	<0.0020	<0.0060	0.0055	<0.00020	<0.050	<0.0050
TW-18	17-Nov-11	<0.020	0.14	<0.0020	0.0088	0.0058	<0.00020	<0.050	<0.0050
TW-23	21-Aug-09	<0.020	0.023	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-30	21-Aug-09	0.032	0.039	<0.0020	<0.0060	0.019	<0.00020	<0.050	<0.0050
TW-30	16-Nov-10	<0.020	<0.020	<0.0020	<0.0060	0.0071	<0.00020	<0.050	<0.0050
TW-30	17-Nov-11	0.040	0.41	<0.0020	0.011	<0.0050	<0.00020	<0.050	<0.0050
TW-31	21-Aug-09	0.066	0.064	<0.0020	<0.0060	0.015	<0.00020	<0.050	<0.0050
TW-31	16-Nov-10	0.034	0.025	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-34	24-Aug-09	<0.020	<0.020	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-34	22-Nov-11	<0.020	0.33	<0.0020	0.032	<0.0050	0.00025	<0.050	<0.0050
TW-35	24-Aug-09	<0.020	<0.020	<0.0020	<0.0060	0.0061	<0.00020	<0.050	<0.0050
TW-35	17-Nov-10	<0.020	<0.020	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-35	22-Nov-11	0.036	0.028	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-37	21-Aug-09	<0.020	0.041	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050

TABLE 3
SUMMARY OF GROUNDWATER RCRA 8 METALS ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Sample Date	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Analytical Method		6010B	6010B	6010B	6010B	6010B	7470	6010B	6010B
NM WQCC Standard		0.10	1.0	0.01	0.05	0.05	0.002	0.05	0.005
TW-37	16-Nov-10	<0.020	0.061	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-38	16-Nov-10	<0.020	0.023	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-39	21-Aug-09	<0.020	0.08	<0.0020	0.0077	<0.0050	<0.00020	<0.050	<0.0050
TW-39	16-Nov-10	<0.020	0.029	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-41	24-Aug-09	<0.020	0.11	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-41	16-Nov-10	<0.020	0.069	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-41	22-Nov-11	0.029	0.75	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-42	24-Aug-09	<0.020	0.042	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-42	16-Nov-10	<0.020	<0.020	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-43	24-Aug-09	<0.020	<0.020	<0.0020	<0.0060	0.0061	<0.00020	<0.050	<0.0050
TW-43	16-Nov-10	<0.020	<0.020	<0.0020	<0.0060	0.0073	<0.00020	<0.050	<0.0050
TW-44	24-Aug-09	<0.020	0.043	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-45	17-Nov-10	0.070	<0.020	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-47	17-Nov-10	<0.10	<0.10	<0.010	<0.030	<0.025	<0.00020	<0.25	<0.025
TW-47	22-Nov-11	<0.020	0.13	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-49	17-Nov-10	<0.10	<0.10	<0.010	<0.030	<0.025	<0.00020	<0.25	<0.025

TABLE 3

SUMMARY OF GROUNDWATER RCRA 8 METALS ANALYTICAL RESULTS

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Sample Date*	*Arsenic*	*Barium*	*Cadmium*	*Chromium*	*Lead*	*Mercury*	*Selenium*	*Silver*
		mg/L	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*
Analytical Method		*6010B*	*6010B*	*6010B*	*6010B*	*6010B*	*7470*	*6010B*	*6010B*
NM WQCC Standard		*0.10*	*1.0*	*0.01*	*0.05*	*0.05*	*0.002*	*0.05*	*0.005*
TW-50	17-Nov-11	<0020	0.10	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
MW-5	17-Nov-10	<0.020	<0.020	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
MW-20	17-Nov-10	<0.020	0.02	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
MW-21	17-Nov-10	0.040	<0.020	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050

Notes: **< Analyte not detected above listed method limit**

mg/L Milligrams per liter (ppm)

TABLE 4
SUMMARY OF GROUNDWATER DISSOLVED CATIONS, ANIONS, SPECIFIC CONDUCTANCE, HARDNESS, AND TOTAL DISSOLVED SOLIDS ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Sample Date	Calcium	Magnesium	Potassium	Sodium	Bromide	Chloride	Fluoride	Sulfate	Specifice Conductance	Hardness as ($CaCO_3$)	TDS
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmhos/cm	mg/L	mg/L
Analytical Method		*6010B*	*6010B*	*6010B*	*6010B*	*300.0*	*300.0*	*300.0*	*300.0*	*120.1*	*6010B*	*SM 2540C*
NM WQCC Standard		*NE*	*NE*	*NE*	*NE*	*NE*	*250*	*1.6*	*600*	*NE*	*NE*	*1,000*
TW-1	19-Aug-09	500	37	2.8	300	0.12	18	0.82	**1,700**	2,900	1,400	**2,530**
TW-2	19-Aug-09	470	46	3.7	660	0.27	24	1.0	**2,600**	4,100	1,400	**4,020**
TW-3	19-Aug-09	500	45	2.7	710	0.28	26	0.80	**2,600**	4,200	1,400	**4,170**
TW-4	19-Aug-09	470	54	4.2	1,600	0.79	120	0.78	**4,100**	6,500	1,400	**6,530**
TW-5	19-Aug-09	510	36	3.1	400	0.23	20	0.86	**2,000**	3,300	1,400	**3,180**
TW-6	19-Aug-09	480	47	3.4	720	0.28	28	1.1	**2,700**	4,200	1,400	**4,020**
TW-7	19-Aug-09	480	46	2.3	750	0.28	24	0.78	**2,700**	4,200	1,400	**3,930**
TW-7	18-May-11	NA	NA	NA	NA	NA	28	NA	**2,800**	NA	NA	**4,330**
TW-7	17-Nov-11	490	53	2.3	770	<0.50	40	0.51	**2,800**	4,300	1,400	**4,230**
TW-8	20-Aug-09	450	57	3.6	910	1.3	190	0.67	**2,600**	4,700	1,400	**4,490**
TW-8	18-May-11	NA	NA	NA	NA	NA	160	NA	**2,400**	NA	NA	**4,140**
TW-9	20-Aug-09	250	21	2.4	410	1.2	170	0.87	530	2,600	710	**2,070**
TW-10	20-Aug-09	420	36	3.6	640	1.1	160	0.72	**940**	3,700	1,200	**3,250**
TW-11	20-Aug-09	470	53	3.6	1,500	0.46	70	0.85	**4,000**	6,100	1,400	**6,290**
TW-12	20-Aug-09	470	56	2.5	500	0.28	27	0.85	**2,100**	3,500	1,400	**3,490**

TABLE 4

SUMMARY OF GROUNDWATER DISSOLVED CATIONS, ANIONS, SPECIFIC CONDUCTANCE, HARDNESS, AND TOTAL DISSOLVED SOLIDS ANALYTICAL RESULTS

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Sample Date*	*Calcium*	*Magnesium*	*Potassium*	*Sodium*	*Bromide*	*Chloride*	*Fluoride*	*Sulfate*	*Specifice Conductance*	*Hardness as ($CaCO_3$)*	*TDS*
		mg/L	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*µmhos/cm*	*mg/L*	*mg/L*
Analytical Method		*6010B*	*6010B*	*6010B*	*6010B*	*300.0*	*300.0*	*300.0*	*300.0*	*120.1*	*6010B*	*SM 2540C*
NM WQCC Standard		*NE*	*NE*	*NE*	*NE*	*NE*	*250*	*1.6*	*600*	*NE*	*NE*	*1,000*
TW-15	20-Aug-09	460	47	2.6	1,200	0.99	140	0.74	**3,100**	5,300	1,300	**5,240**

TABLE 4

SUMMARY OF GROUNDWATER DISSOLVED CATIONS, ANIONS, SPECIFIC CONDUCTANCE, HARDNESS, AND TOTAL DISSOLVED SOLIDS ANALYTICAL RESULTS

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Sample Date	Calcium	Magnesium	Potassium	Sodium	Bromide	Chloride	Fluoride	Sulfate	Specifice Conductance	Hardness as ($CaCO_3$)	TDS
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmhos/cm	mg/L	mg/L
Analytical Method		*6010B*	*6010B*	*6010B*	*6010B*	*300.0*	*300.0*	*300.0*	*300.0*	*120.1*	*6010B*	*SM 2540C*
NM WQCC Standard		*NE*	*NE*	*NE*	*NE*	*NE*	*250*	*1.6*	*600*	*NE*	*NE*	*1,000*
TW-16	20-Aug-09	360	32	8.5	1,100	1.1	150	0.75	**2,600**	4,800	1,000	**4,240**
TW-17	21-Aug-09	350	43	4.2	1,200	1.2	170	0.80	**3,100**	4,700	1,100	**4,640**
TW-18	21-Aug-09	500	54	3.6	830	0.43	52	0.77	**2,800**	4,300	1,500	**4,440**
TW-18	16-Nov-10	490	52	4.6	910	0.28	54	1	**3,700**	5,000	1,400	**4,790**
TW-18	17-Nov-11	480	49	4.1	1,100	0.26	66	0.73	**4,700**	5,400	1,400	**5,360**
TW-23	21-Aug-09	470	49	3.5	1,400	1.1	150	1.1	**3,600**	5,500	1,400	**5,440**
TW-30	21-Aug-09	700	57	5.9	1,100	3.7	**860**	0.56	**2,000**	5,000	2,000	**4,550**
TW-30	16-Nov-10	550	60	8.8	1,200	1.9	**1,400**	0.54	**2,100**	6,500	1,600	**5,630**
TW-30	17-Nov-11	670	61	9.3	1,500	3.1	**1,400**	<1.0	**1,900**	7,300	1,900	**6,310**
TW-31	21-Aug-09	460	68	4.9	1,300	3.9	**1,700**	0.43	**1,200**	5,800	1,400	**4,790**
TW-31	16-Nov-10	520	66	6.9	940	0.65	**750**	0.67	**2,000**	5,500	1,600	**4,680**
TW-34	24-Aug-09	450	76	4.7	1,200	0.36	59	1.0	**3,500**	5,100	1,400	**5,460**
TW-34	22-Nov-11	480	79	4.8	1,100	<2.0	59	<2.0	**4,100**	5,500	1,500	**5,420**
TW-35	24-Aug-09	440	88	8.3	1,600	0.40	65	0.74	**4,400**	6,100	1,500	**6,700**
TW-35	17-Nov-10	480	84	8.6	1,600	0.26	70	0.81	**4,700**	6,600	1,600	**6,770**
TW-35	22-Nov-11	460	90	8.2	1,700	0.72	81	0.74	**4,600**	6,700	1,500	**7,180**
TW-37	21-Aug-09	380	46	3.7	870	3.5	**330**	0.59	**1,700**	4,200	1,100	**3,740**
TW-37	16-Nov-10	340	45	3.5	760	0.49	**310**	0.51	**1,500**	4,200	1,000	**3,380**
TW-37	18-May-11	NA	NA	NA	NA	NA	**260**	NA	**1,700**	NA	NA	**3,680**

TABLE 4

SUMMARY OF GROUNDWATER DISSOLVED CATIONS, ANIONS, SPECIFIC CONDUCTANCE, HARDNESS, AND TOTAL DISSOLVED SOLIDS ANALYTICAL RESULTS

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Sample Date	Calcium	Magnesium	Potassium	Sodium	Bromide	Chloride	Fluoride	Sulfate	Specifice Conductance	Hardness as ($CaCO_3$)	TDS
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmhos/cm	mg/L	mg/L
Analytical Method		6010B	6010B	6010B	6010B	300.0	300.0	300.0	300.0	120.1	6010B	SM 2540C
NM WQCC Standard		NE	NE	NE	NE	NE	250	1.6	600	NE	NE	1,000
TW-38	16-Nov-10	490	45	3.5	700	0.38	210	0.77	**1,900**	4,400	1,400	**3,930**
TW-38	18-May-11	NA	NA	NA	NA	NA	190	NA	**2,200**	NA	NA	**4,010**
TW-39	21-Aug-09	600	54	7.1	1,100	2.3	**1,300**	0.44	**990**	5,200	1,700	**4,460**
TW-39	16-Nov-10	370	43	4.9	660	0.47	**540**	0.42	**1,000**	4,100	1,100	**3,070**
TW-39	18-May-11	NA	NA	NA	NA	NA	**550**	NA	**1,600**	NA	NA	**3,980**
TW-41	24-Aug-19	330	57	6.5	1,000	1.7	**970**	<0.50	500	4,600	1,100	**3,510**
TW-41	16-Nov-10	300	58	5.8	910	1.0	**1,100**	0.23	**610**	5,200	980	**3,670**
TW-41	18-May-11	NA	NA	NA	NA	NA	**910**	NA	**980**	NA	NA	**3,940**
TW-41	22-Nov-11	230	50	4.8	860	0.5	**640**	0.5	510	4,300	890	**3,300**
TW-42	24-Aug-09	250	75	6.3	1,200	3.8	**690**	0.43	**1,400**	5,000	940	**4,260**
TW-42	16-Nov-10	370	110	6.8	1,200	0.86	**840**	0.47	**2,300**	5,900	1,400	**5,040**
TW-43	24-Aug-09	570	55	5.0	930	0.6	140	0.74	**2,500**	4,500	1,600	**4,610**
TW-43	16-Nov-10	540	53	4.8	820	0.44	150	0.98	**2,800**	4,800	1,600	**4,450**
TW-43	18-May-11	NA	NA	NA	NA	NA	95	NA	**2,700**	NA	NA	**4,720**
TW-44	24-Aug-09	610	56	8.1	1,100	3.7	81	0.38	**2,800**	5,100	1,800	**5,520**
TW-45	17-Nov-10	550	53	3.9	860	0.47	**320**	0.78	**2,600**	5,000	1,600	**4,530**
TW-45	18-May-11	NA	NA	NA	NA	NA	**280**	NA	**2,600**	NA	NA	**4,700**
TW-46	18-May-11	NA	NA	NA	NA	NA	**400**	NA	**1,400**	NA	NA	**3,640**

TABLE 4

SUMMARY OF GROUNDWATER DISSOLVED CATIONS, ANIONS, SPECIFIC CONDUCTANCE, HARDNESS, AND TOTAL DISSOLVED SOLIDS ANALYTICAL RESULTS

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Sample Date*	*Calcium*	*Magnesium*	*Potassium*	*Sodium*	*Bromide*	*Chloride*	*Fluoride*	*Sulfate*	*Specifice Conductance*	*Hardness as ($CaCO_3$)*	*TDS*
		mg/L	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*µmhos/cm*	*mg/L*	*mg/L*
Analytical Method		*6010B*	*6010B*	*6010B*	*6010B*	*300.0*	*300.0*	*300.0*	*300.0*	*120.1*	*6010B*	*SM 2540C*
NM WQCC Standard		*NE*	*NE*	*NE*	*NE*	*NE*	*250*	*1.6*	*600*	*NE*	*NE*	*1,000*
TW-47	17-Nov-10	490	120	8.6	2,300	0.93	**1,200**	0.57	**5,300**	8,800	1,700	**8,800**
TW-47	22-Nov-11	510	120	8.2	2,700	1.2	**1,800**	<1.0	**5,800**	19,000	2,000	**10,700**
TW-49	17-Nov-10	630	92	14.0	1,700	2.1	**3,400**	0.51	**7,000**	8,000	1,900	**7,470**
TW-50	18-May-11	NA	NA	NA	NA	NA	**1100**	NA	**970**	NA	NA	**4,150**
TW-50	17-Nov-11	480	55	5.7	900	0.64	**990**	<0.50	**1,100**	5,300	1,400	**4,160**
MW-5	17-Nov-10	150	29	6.1	1,200	0.77	**310**	<2.0	**3,000**	5,400	500	**4,630**

TABLE 4

SUMMARY OF GROUNDWATER DISSOLVED CATIONS, ANIONS, SPECIFIC CONDUCTANCE, HARDNESS, AND TOTAL DISSOLVED SOLIDS ANALYTICAL RESULTS

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Sample Date*	*Calcium*	*Magnesium*	*Potassium*	*Sodium*	*Bromide*	*Chloride*	*Fluoride*	*Sulfate*	*Specifice Conductance*	*Hardness as ($CaCO_3$)*	*TDS*
		mg/L	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*mg/L*	*µmhos/cm*	*mg/L*	*mg/L*
Analytical Method		***6010B***	***6010B***	***6010B***	***6010B***	***300.0***	***300.0***	***300.0***	***300.0***	***120.1***	***6010B***	***SM 2540C***
NM WQCC Standard		***NE***	***NE***	***NE***	***NE***	***NE***	***250***	***1.6***	***600***	***NE***	***NE***	***1,000***
MW-20	17-Nov-10	410	47	4.1	840	0.72	**430**	<0.50	**2,000**	4,700	1,200	**3,950**
MW-20	18-May-11	NA	NA	NA	NA	NA	**380**	NA	**1,900**	NA	NA	**4,260**
MW-21	17-Nov-10	460	64	7.4	1,400	0.87	**820**	0.64	**3,500**	6,700	1,400	**6,270**
MW-21	18-May-11	NA	NA	NA	NA	NA	**750**	NA	**2,700**	NA	NA	**5,500**

Notes:

< **Analyte not detected above listed method limit**

NE **Not established**

mg/L **Milligrams per liter (ppm)**

µmhos/cm **Micromhos per centimeter**

TABLE 5

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)
Phase 1 Wells					
MPE-1	03-Mar-10	TBD		23.63	
MPE-1	10-May-10	TBD		23.46	
MPE-1	17-Aug-10	TBD		23.65	
MPE-1	11-Nov-10	TBD		23.82	
MPE-1	25-Feb-11	TBD		23.63	
MPE-1	20-May-11	TBD		23.63	
MPE-1	25-Aug-11	TBD		24.01	
MPE-1	10-Nov-11	TBD		24.04	
MPE-2	03-Mar-10	TBD	21.51	21.54	0.03
MPE-2	18-May-10	TBD		21.29	
MPE-2	17-Aug-10	TBD	21.61	21.62	0.01
MPE-2	11-Nov-10	TBD	21.69	21.78	0.09
MPE-2	25-Feb-11	TBD		21.61	
MPE-2	20-May-11	TBD		21.46	
MPE-2	25-Aug-11	TBD		21.91	
MPE-2	10-Nov-11	TBD	21.94	22.03	0.09
MPE-3	03-Mar-10	TBD		20.79	
MPE-3	10-May-10	TBD		20.63	
MPE-3	17-Aug-10	TBD		20.83	
MPE-3	11-Nov-10	TBD		21.01	
MPE-3	25-Feb-11	TBD		20.89	
MPE-3	20-May-11	TBD		20.81	
MPE-3	25-Aug-11	TBD		21.22	
MPE-3	10-Nov-11	TBD		21.23	
MPE-4	03-Mar-10	TBD		19.95	
MPE-4	10-May-10	TBD		19.80	
MPE-4	17-Aug-10	TBD		20.01	
MPE-4	11-Nov-10	TBD		20.20	
MPE-4	25-Feb-11	TBD		20.07	
MPE-4	20-May-11	TBD		19.97	
MPE-4	25-Aug-11	TBD		20.47	
MPE-4	10-Nov-11	TBD		20.43	
MPE-5	03-Mar-10	TBD	19.30	19.41	0.11
MPE-5	18-May-10	TBD		19.00	
MPE-5	17-Aug-10	TBD	19.32	19.50	0.18

TABLE 5

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-5	11-Nov-10	TBD	19.54	19.69	0.15
MPE-5	25-Feb-11	TBD	19.42	19.45	0.03
MPE-5	20-May-11	TBD	19.33	19.34	0.01
MPE-5	25-Aug-11	TBD	19.72	19.92	0.20
MPE-5	10-Nov-11	TBD	19.74	19.92	0.18
MPE-6	03-Mar-10	TBD		19.66	
MPE-6	10-May-10	TBD		NM	
MPE-6	17-Aug-10	TBD		19.70	
MPE-6	11-Nov-10	TBD		19.91	
MPE-6	01-Mar-11	TBD		19.69	
MPE-6	20-May-11	TBD		19.64	
MPE-6	25-Aug-11	TBD		20.07	
MPE-6	10-Nov-11	TBD	20.09	20.10	0.01
MPE-7	03-Mar-10	TBD		20.46	
MPE-7	10-May-10	TBD		NM	
MPE-7	17-Aug-10	TBD		20.49	
MPE-7	11-Nov-10	TBD		20.68	
MPE-7	01-Mar-11	TBD		20.54	
MPE-7	20-May-11	TBD		20.49	
MPE-7	25-Aug-11	TBD		20.88	
MPE-7	10-Nov-11	TBD		20.89	
MPE-8	03-Mar-10	TBD		21.74	
MPE-8	10-May-10	TBD		21.60	
MPE-8	17-Aug-10	TBD		21.81	
MPE-8	11-Nov-10	TBD		21.98	
MPE-8	01-Mar-11	TBD		21.95	
MPE-8	20-May-11	TBD		21.78	
MPE-8	25-Aug-11	TBD		22.32	
MPE-8	10-Nov-11	TBD		22.19	
MPE-9	03-Mar-10	TBD		23.44	
MPE-9	10-May-10	TBD		23.29	
MPE-9	17-Aug-10	TBD		23.51	
MPE-9	11-Nov-10	TBD		23.66	
MPE-9	01-Mar-11	TBD		23.49	
MPE-9	20-May-11	TBD		23.43	
MPE-9	25-Aug-11	TBD		23.87	

TABLE 5

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-9	10-Nov-11	TBD		23.97	
MPE-10	03-Mar-10	TBD		23.28	
MPE-10	10-May-10	TBD		23.10	
MPE-10	17-Aug-10	TBD		23.34	
MPE-10	11-Nov-10	TBD		23.46	
MPE-10	01-Mar-11	TBD		23.38	
MPE-10	20-May-11	TBD		23.31	
MPE-10	25-Aug-11	TBD		23.71	
MPE-10	10-Nov-11	TBD		23.67	
MPE-11	03-Mar-10	TBD		21.83	
MPE-11	10-May-10	TBD		21.68	
MPE-11	17-Aug-10	TBD	NM-Roots in Well		
MPE-11	11-Nov-10	TBD	NM-Roots in Well		
MPE-11	01-Mar-11	TBD	NM-Roots in Well		
MPE-11	20-May-11	TBD	NM-Roots in Well		
MPE-11	25-Aug-11	TBD		21.65	
MPE-11	10-Nov-11	TBD		21.66	
MPE-12	03-Mar-10	TBD		22.34	
MPE-12	10-May-10	TBD		22.20	
MPE-12	17-Aug-10	TBD		22.45	
MPE-12	11-Nov-10	TBD	NM-Roots in Well		
MPE-12	01-Mar-11	TBD	NM-Roots in Well		
MPE-12	20-May-11	TBD	NM-Roots in Well		
MPE-12	25-Aug-11	TBD		22.79	
MPE-12	10-Nov-11	TBD		22.83	
MPE-13	03-Mar-10	TBD		22.70	
MPE-13	10-May-10	TBD		22.57	
MPE-13	17-Aug-10	TBD	22.78	22.82	0.04
MPE-13	11-Nov-10	TBD	22.90	22.96	0.06
MPE-13	01-Mar-11	TBD		22.82	
MPE-13	20-May-11	TBD		22.73	
MPE-13	25-Aug-11	TBD	23.12	23.24	0.12
MPE-13	10-Nov-11	TBD	23.11	23.18	0.07
MPE-14	03-Mar-10	TBD		21.80	
MPE-14	10-May-10	TBD		21.65	

TABLE 5

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-14	17-Aug-10	TBD	21.84	21.85	0.01
MPE-14	11-Nov-10	TBD		22.00	
MPE-14	01-Mar-11	TBD		21.86	
MPE-14	20-May-11	TBD		21.90	
MPE-14	25-Aug-11	TBD		22.23	
MPE-14	10-Nov-11	TBD	22.20	22.34	0.14
MPE-16	03-Mar-10	TBD		19.92	
MPE-16	10-May-10	TBD		19.78	
MPE-16	17-Aug-10	TBD		19.96	
MPE-16	11-Nov-10	TBD		20.14	
MPE-16	01-Mar-11	TBD		20.21	
MPE-16	20-May-11	TBD		19.97	
MPE-16	25-Aug-11	TBD		20.34	
MPE-16	10-Nov-11	TBD		20.35	
MPE-17	03-Mar-10	TBD		20.11	
MPE-17	10-May-10	TBD		19.98	
MPE-17	17-Aug-10	TBD		20.04	
MPE-17	11-Nov-10	TBD		20.34	
MPE-17	01-Mar-11	TBD		20.21	
MPE-17	20-May-11	TBD		20.16	
MPE-17	25-Aug-11	TBD		20.49	
MPE-17	10-Nov-11	TBD		20.54	
MPE-18	03-Mar-10	TBD		19.23	
MPE-18	10-May-10	TBD		NM	
MPE-18	17-Aug-10	TBD	19.27	19.28	0.01
MPE-18	11-Nov-10	TBD		19.34	
MPE-18	01-Mar-11	TBD		19.46	
MPE-18	20-May-11	TBD		19.35	
MPE-18	25-Aug-11	TBD		19.46	
MPE-18	10-Nov-11	TBD		19.67	
MPE-19	03-Mar-10	TBD		19.02	
MPE-19	10-May-10	TBD		18.86	
MPE-19	17-Aug-10	TBD		19.06	
MPE-19	11-Nov-10	TBD		19.25	
MPE-19	01-Mar-11	TBD		19.05	
MPE-19	20-May-11	TBD		19.02	

TABLE 5

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)
MPE-19	25-Aug-11	TBD		19.42	
MPE-19	10-Nov-11	TBD		19.47	
Phase 2 Wells					
MPE-20	03-Mar-10	TBD		18.72	
MPE-20	10-May-10	TBD		18.58	
MPE-20	17-Aug-10	TBD		18.75	
MPE-20	11-Nov-10	TBD		18.96	
MPE-20	01-Mar-11	TBD		18.87	
MPE-20	20-May-11	TBD		18.79	
MPE-20	25-Aug-11	TBD		19.14	
MPE-20	10-Nov-11	TBD		19.17	
MPE-21	03-Mar-10	TBD	19.88	19.99	0.11
MPE-21	18-May-10	TBD		19.50	
MPE-21	09-Jun-10	TBD		19.75	
MPE-21	17-Aug-10	TBD	19.90	19.91	0.01
MPE-21	11-Nov-10	TBD	20.12	20.21	0.09
MPE-21	01-Mar-11	TBD		19.99	
MPE-21	20-May-11	TBD		19.93	
MPE-21	25-Aug-11	TBD	20.32	20.37	0.05
MPE-21	10-Nov-11	TBD		20.41	
MPE-22	03-Mar-10	TBD	20.73	20.81	0.08
MPE-22	18-May-10	TBD		NM	
MPE-22	09-Jun-10	TBD	20.4	20.90	0.50
MPE-22	16-Jun-10	TBD		20.53	
MPE-22	17-Aug-10	TBD	20.71	20.88	0.17
MPE-22	11-Nov-10	TBD	20.94	20.95	0.01
MPE-22	01-Mar-11	TBD		20.84	
MPE-22	20-May-11	TBD		20.73	
MPE-22	25-Aug-11	TBD	21.11	21.15	0.04
MPE-22	10-Nov-11	TBD		21.28	
MPE-23	03-Mar-10	TBD		21.10	
MPE-23	10-May-10	TBD		20.97	
MPE-23	17-Aug-10	TBD		21.14	
MPE-23	11-Nov-10	TBD		21.33	
MPE-23	01-Mar-11	TBD		21.29	
MPE-23	20-May-11	TBD		20.80	

TABLE 5

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)
MPE-23	25-Aug-11	TBD		20.33	
MPE-23	10-Nov-11	TBD		20.25	
MPE-24	03-Mar-10	TBD		22.69	
MPE-24	10-May-10	TBD		22.53	
MPE-24	17-Aug-10	TBD		22.70	
MPE-24	11-Nov-10	TBD		22.88	
MPE-24	01-Mar-11	TBD		22.78	
MPE-24	20-May-11	TBD		22.64	
MPE-24	25-Aug-11	TBD		23.09	
MPE-24	10-Nov-11	TBD		23.12	
MPE-25	03-Mar-10	TBD		23.02	
MPE-25	10-May-10	TBD		22.87	
MPE-25	17-Aug-10	TBD		23.12	
MPE-25	11-Nov-10	TBD		23.23	
MPE-25	01-Mar-11	TBD		23.08	
MPE-25	20-May-11	TBD		22.99	
MPE-25	25-Aug-11	TBD		23.55	
MPE-25	10-Nov-11	TBD		23.54	
MPE-26	03-Mar-10	TBD	22.75	23.41	0.66
MPE-26	18-May-10	TBD	22.58	23.38	0.80
MPE-26	28-May-10	TBD	22.55	23.42	0.87
MPE-26	09-Jun-10	TBD	22.56	23.73	1.17
MPE-26	17-Aug-10	TBD	22.94	23.34	0.40
MPE-26	11-Nov-10	TBD	23.04	23.59	0.55
MPE-26	03-Mar-11	TBD	22.96	23.38	0.42
MPE-26	20-May-11	TBD	22.82	22.86	0.04
MPE-26	25-Aug-11	TBD	23.29	23.99	0.70
MPE-26	10-Nov-11	TBD	23.17	24.14	0.97
MPE-27	03-Mar-10	TBD		21.92	
MPE-27	10-May-10	TBD		21.76	
MPE-27	17-Aug-10	TBD		22.03	
MPE-27	11-Nov-10	TBD		22.06	
MPE-27	03-Mar-11	TBD	NM-Roots in Well		
MPE-27	20-May-11	TBD	NM-Roots in Well		
MPE-27	25-Aug-11	TBD		21.42	
MPE-27	10-Nov-11	TBD		21.33	

TABLE 5

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-28	03-Mar-10	TBD		21.54	
MPE-28	10-May-10	TBD		21.39	
MPE-28	17-Aug-10	TBD		21.70	
MPE-28	11-Nov-10	TBD	NM-Roots in Well		
MPE-28	03-Mar-11	TBD	NM-Roots in Well		
MPE-28	20-May-11	TBD	NM-Roots in Well		
MPE-28	25-Aug-11	TBD		22.19	
MPE-28	10-Nov-11	TBD		21.93	
MPE-29	03-Mar-10	TBD		20.54	
MPE-29	10-May-10	TBD		20.39	
MPE-29	17-Aug-10	TBD		20.73	
MPE-29	11-Nov-10	TBD		21.72	
MPE-29	03-Mar-11	TBD		21.45	
MPE-29	19-May-11	TBD		20.49	
MPE-29	25-Aug-11	TBD		21.03	
MPE-29	10-Nov-11	TBD		20.93	
MPE-30	03-Mar-10	TBD		21.19	
MPE-30	10-May-10	TBD		20.03	
MPE-30	17-Aug-10	TBD		21.33	
MPE-30	12-Nov-10	TBD		21.36	
MPE-30	03-Mar-11	TBD		20.99	
MPE-30	19-May-11	TBD		21.18	
MPE-30	25-Aug-11	TBD		21.75	
MPE-30	10-Nov-11	TBD		21.68	
MPE-31	03-Mar-10	TBD		22.46	
MPE-31	10-May-10	TBD		22.30	
MPE-31	17-Aug-10	TBD		22.57	
MPE-31	12-Nov-10	TBD		22.64	
MPE-31	03-Mar-11	TBD		22.45	
MPE-31	19-May-11	TBD		22.45	
MPE-31	25-Aug-11	TBD		22.95	
MPE-31	10-Nov-11	TBD		22.87	
MPE-33	03-Mar-10	TBD		22.34	
MPE-33	10-May-10	TBD		22.19	
MPE-33	17-Aug-10	TBD		22.39	

TABLE 5

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)
MPE-33	12-Nov-10	TBD		22.54	
MPE-33	03-Mar-11	TBD		22.61	
MPE-33	19-May-11	TBD		22.34	
MPE-33	25-Aug-11	TBD		22.78	
MPE-33	10-Nov-11	TBD		22.78	
MPE-34	03-Mar-10	TBD		22.16	
MPE-34	10-May-10	TBD		22.01	
MPE-34	17-Aug-10	TBD		22.20	
MPE-34	12-Nov-10	TBD		22.37	
MPE-34	03-Mar-11	TBD		22.41	
MPE-34	19-May-11	TBD		22.19	
MPE-34	25-Aug-11	TBD		22.60	
MPE-34	10-Nov-11	TBD		22.67	
MPE-35	24-Feb-10	TBD	20.71	20.95	0.24
MPE-35	03-Mar-10	TBD	20.64	20.98	0.34
MPE-35	18-May-10	TBD	20.34	20.67	0.33
MPE-35	09-Jun-10	TBD	20.26	20.79	0.53
MPE-35	16-Jun-10	TBD		20.46	
MPE-35	17-Aug-10	TBD	NM-Attached to RSI Unit		
MPE-35	12-Nov-10	TBD	20.86	21.27	0.41
MPE-35	03-Mar-11	TBD	20.87	21.25	0.38
MPE-35	19-May-11	TBD		20.74	
MPE-35	25-Aug-11	TBD	21.05	21.59	0.54
MPE-35	10-Nov-11	TBD	21.07	21.70	0.63
MPE-36	03-Mar-10	TBD		19.91	
MPE-36	10-May-10	TBD		NM	
MPE-36	16-Jun-10	TBD		19.72	
MPE-36	17-Aug-10	TBD		19.94	
MPE-36	12-Nov-10	TBD		20.11	
MPE-36	03-Mar-11	TBD		19.92	
MPE-36	19-May-11	TBD		19.98	
MPE-36	25-Aug-11	TBD		20.27	
MPE-36	10-Nov-11	TBD	20.26	20.66	0.40
MPE-37	03-Mar-10	TBD	20.11	20.67	0.56
MPE-37	18-May-10	TBD		19.98	
MPE-37	16-Jun-10	TBD		20.07	

TABLE 5

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-37	17-Aug-10	TBD		20.31	
MPE-37	12-Nov-10	TBD		20.51	
MPE-37	03-Mar-11	TBD		20.33	
MPE-37	19-May-11	TBD		20.37	
MPE-37	25-Aug-11	TBD		20.33	
MPE-37	10-Nov-11	TBD	20.68	20.7	0.02
MPE-38	03-Mar-10	TBD	19.80	19.83	0.03
MPE-38	18-May-10	TBD	19.49	20.40	0.91
MPE-38	09-Jun-10	TBD	19.51	20.31	0.80
MPE-38	16-Jun-10	TBD	19.61	20.30	0.69
MPE-38	17-Aug-10	TBD	NM-Attached to RSI Unit		
MPE-38	12-Nov-10	TBD	19.99	20.59	0.60
MPE-38	03-Mar-11	TBD	20.06	20.63	0.57
MPE-38	19-May-11	TBD		19.83	
MPE-38	25-Aug-11	TBD	20.18	20.26	0.08
MPE-38	10-Nov-11	TBD	20.20	20.28	0.08
Phase 3 Wells					
MPE-39	18-Jun-10	TBD		17.29	
MPE-39	17-Aug-10	TBD		17.44	
MPE-39	12-Nov-10	TBD		17.64	
MPE-39	03-Mar-11	TBD		17.51	
MPE-39	19-May-11	TBD		17.49	
MPE-39	25-Aug-11	TBD		17.78	
MPE-39	10-Nov-11	TBD		17.83	
MPE-40	18-Jun-10	TBD		17.46	
MPE-40	17-Aug-10	TBD		17.63	
MPE-40	12-Nov-10	TBD		17.83	
MPE-40	03-Mar-11	TBD		17.72	
MPE-40	19-May-11	TBD		17.64	
MPE-40	25-Aug-11	TBD		17.98	
MPE-40	15-Nov-11	TBD		18.06	
MPE-41	18-Jun-10	TBD		18.14	
MPE-41	17-Aug-10	TBD	NM-Attached to RSI Unit		
MPE-41	12-Nov-10	TBD		18.51	
MPE-41	03-Mar-11	TBD		18.57	
MPE-41	19-May-11	TBD		18.37	

TABLE 5

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-41	25-Aug-11	TBD		18.66	
MPE-41	15-Nov-11	TBD		18.74	
MPE-42	18-Jun-10	TBD		18.90	
MPE-42	17-Aug-10	TBD	NM-Attached to RSI Unit		
MPE-42	12-Nov-10	TBD		19.25	
MPE-42	03-Mar-11	TBD		19.30	
MPE-42	19-May-11	TBD		19.11	
MPE-42	25-Aug-11	TBD		19.48	
MPE-42	15-Nov-11	TBD		19.46	
MPE-43	18-Jun-10	TBD		19.75	
MPE-43	17-Aug-10	TBD	NM-Attached to RSI Unit		
MPE-43	12-Nov-10	TBD		20.10	
MPE-43	03-Mar-11	TBD	NM-Attached to RSI Unit		
MPE-43	19-May-11	TBD		19.95	
MPE-43	25-Aug-11	TBD		20.25	
MPE-43	15-Nov-11	TBD		20.27	
MPE-44	18-Jun-10	TBD		19.95	
MPE-44	17-Aug-10	TBD	NM-Attached to RSI Unit		
MPE-44	12-Nov-10	TBD		20.29	
MPE-44	03-Mar-11	TBD	NM-Attached to RSI Unit		
MPE-44	19-May-11	TBD	20.09	20.10	0.01
MPE-44	25-Aug-11	TBD	20.66	20.70	0.04
MPE-44	15-Nov-11	TBD	20.37	21.49	1.12
MPE-45	18-Jun-10	TBD		20.05	sheen
MPE-45	17-Aug-10	TBD	NM-Attached to RSI Unit		
MPE-45	12-Nov-10	TBD		20.38	
MPE-45	03-Mar-11	TBD	NM-Attached to RSI Unit		
MPE-45	19-May-11	TBD		20.22	
MPE-45	25-Aug-11	TBD	20.63	20.97	0.34
MPE-45	15-Nov-11	TBD	20.66	21.23	0.57
MPE-46	18-Jun-10	TBD		21.16	
MPE-46	17-Aug-10	TBD	NM-Attached to RSI Unit		
MPE-46	12-Nov-10	TBD		21.46	
MPE-46	03-Mar-11	TBD	NM-Attached to RSI Unit		
MPE-46	19-May-11	TBD		21.28	

TABLE 5

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-46	25-Aug-11	TBD		21.72	
MPE-46	15-Nov-11	TBD		21.53	
MPE-47	18-Jun-10	TBD		20.68	
MPE-47	17-Aug-10	TBD		20.92	
MPE-47	12-Nov-10	TBD	20.87	21.28	0.41
MPE-47	03-Mar-11	TBD	20.80	21.29	0.49
MPE-47	19-May-11	TBD	20.73	20.75	0.02
MPE-47	25-Aug-11	TBD	21.13	22.25	1.12
MPE-47	15-Nov-11	TBD	21.00	21.82	0.82
MPE-48	18-Jun-10	TBD		19.94	
MPE-48	17-Aug-10	TBD		20.22	
MPE-48	12-Nov-10	TBD		20.11	
MPE-48	03-Mar-11	TBD		20.16	
MPE-48	19-May-11	TBD		19.91	
MPE-48	25-Aug-11	TBD		20.55	
MPE-48	15-Nov-11	TBD		20.24	
MPE-49	18-Jun-10	TBD		19.13	
MPE-49	17-Aug-10	TBD		19.44	
MPE-49	12-Nov-10	TBD		19.32	
MPE-49	03-Mar-11	TBD		19.35	
MPE-49	25-May-11	TBD		19.08	
MPE-49	25-Aug-11	TBD		19.80	
MPE-49	15-Nov-11	TBD		19.59	
MPE-50	18-Jun-10	TBD		20.24	
MPE-50	17-Aug-10	TBD	NM-Attached to RSI Unit		
MPE-50	12-Nov-10	TBD		20.49	
MPE-50	03-Mar-11	TBD	NM-Attached to RSI Unit		
MPE-50	25-May-11	TBD		20.39	
MPE-50	25-Aug-11	TBD		20.90	
MPE-50	15-Nov-11	TBD	20.65	21.02	0.37
MPE-51	18-Jun-10	TBD		20.70	
MPE-51	17-Aug-10	TBD		20.68	
MPE-51	12-Nov-10	TBD		20.99	
MPE-51	03-Mar-11	TBD		21.04	
MPE-51	25-May-11	TBD		20.80	

TABLE 5

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-51	25-Aug-11	TBD		21.27	
MPE-51	15-Nov-11	TBD		21.21	
MPE-52	18-Jun-10	TBD		20.49	
MPE-52	17-Aug-10	TBD		20.64	
MPE-52	12-Nov-10	TBD		20.84	
MPE-52	03-Mar-11	TBD		20.70	
MPE-52	25-May-11	TBD		20.69	
MPE-52	25-Aug-11	TBD	20.97	21.23	0.26
MPE-52	15-Nov-11	TBD	20.92	21.34	0.42
MPE-53	18-Jun-10	TBD		19.23	
MPE-53	17-Aug-10	TBD		19.38	
MPE-53	12-Nov-10	TBD		19.55	
MPE-53	03-Mar-11	TBD		19.42	
MPE-53	25-May-11	TBD	19.29	19.74	0.45
MPE-53	25-Aug-11	TBD	19.76	20.74	0.98
MPE-53	15-Nov-11	TBD	19.65	20.75	1.10
MPE-54	18-Jun-10	TBD		18.85	
MPE-54	17-Aug-10	TBD		19.02	
MPE-54	12-Nov-10	TBD		19.19	
MPE-54	03-Mar-11	TBD		19.15	
MPE-54	25-May-11	TBD		19.23	
MPE-54	25-Aug-11	TBD	19.38	19.88	0.50
MPE-54	15-Nov-11	TBD	19.47	20.03	0.56
MPE-55	18-Jun-10	TBD		18.36	
MPE-55	17-Aug-10	TBD		18.51	
MPE-55	12-Nov-10	TBD		18.70	
MPE-55	03-Mar-11	TBD		18.61	
MPE-55	25-May-11	TBD		18.52	
MPE-55	25-Aug-11	TBD		18.86	
MPE-55	15-Nov-11	TBD		18.91	
MPE-56	18-Jun-10	TBD		13.80	
MPE-56	17-Aug-10	TBD		13.94	
MPE-56	12-Nov-10	TBD		14.14	
MPE-56	03-Mar-11	TBD		14.21	
MPE-56	19-May-11	TBD		14.01	

TABLE 5

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	*Date*	*T.O.C. (ft amsl)*	*Depth to Product (ft)*	*Depth to Water (ft)*	*NAPL Thickness (ft)*
MPE-56	25-Aug-11	TBD		14.28	
MPE-56	15-Nov-11	TBD		14.30	
MPE-57	18-Jun-10	TBD		--	
MPE-57	17-Aug-10	TBD		14.63	
MPE-57	12-Nov-10	TBD		14.75	
MPE-57	03-Mar-11	TBD		14.67	
MPE-57	19-May-11	TBD		14.68	
MPE-57	25-Aug-11	TBD		15.09	
MPE-57	15-Nov-11	TBD		15.00	
MPE-58	18-Jun-10	TBD		--	
MPE-58	17-Aug-10	TBD		14.86	
MPE-58	12-Nov-10	TBD		14.99	
MPE-58	03-Mar-11	TBD		15.06	
MPE-58	19-May-11	TBD		14.96	
MPE-58	25-Aug-11	TBD		15.27	
MPE-58	15-Nov-11	TBD		15.32	

FIGURE 1

GENERAL SITE PLAN

THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

MAP SOURCE: (c) 2011 PICTOMETRY INTERNATIONAL CORP. ONLINE, AERIAL PHOTOGRAPHED: APRIL 5, 2011

Animas Environmental Services, LLC

DRAWN BY: N. Willis	**DATE DRAWN:** February 2, 2009
REVISIONS BY: C. Lameman	**DATE REVISED:** December 5, 2011
CHECKED BY: D. Watson	**DATE CHECKED:** December 6, 2011
APPROVED BY: E. McNally	**DATE APPROVED:** February 10, 2012

LEGEND

MONITOR WELL LOCATIONS

N

SCALE

200 100 0 200

50

(1 INCH = 200 FEET)

FIGURE 2

GROUNDWATER ELEVATION CONTOURS NOVEMBER 2011

THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY: N. Willis	**DATE DRAWN:** February 2, 2009
REVISIONS BY: C. Lameman	**DATE REVISED:** December 5, 2011
CHECKED BY: D. Watson	**DATE CHECKED:** December 6, 2011
APPROVED BY: E. McNally	**DATE APPROVED:** February 10, 2012

LEGEND

- MONITOR WELL LOCATIONS
- 5440.26 GROUNDWATER ELEVATION IN FEET (AMSL)
- —5434— GROUNDWATER ELEVATION CONTOUR IN FEET (AMSL)

NOTE: GROUNDWATER MEASUREMENTS WERE MADE ON NOVEMBER 15 - 22, 2011. LOCATIONS OF TW-45 THROUGH TW-50 ARE APPROXIMATE.

SCALE
200 100 0 200
50
(1 INCH = 200 FEET)

KUTZ WASH

ARROYO

CR 5500

GATE

REFINERY OFFICE

DISPATCH OFFICE

SHOP

PROCESS WATER EVAPORATION LAGOONS

HYDROCRACKER REFORMER (REMOVED)

FIRE WATER POND (REMOVED)

GROUNDWATER GRADIENT 0.008 FT/FT BETWEEN TW-1 AND MW-5

TW-47 TBS 6.79
MW-21 5424.98
MW-22 NM
TW-49 TBS 6.14
MW-5 5423.33
MW-7 5426.42
TW-46 TBS 7.67
TW-42 5427.33
TW-41 5428.50
TW-40 5429.40
TW-39 5430.45
TW-31 5431.36
TW-30 5431.68
MW-9 NM
TW-45 TBS 7.23
MW-20 5424.23
TW-50 TBS 8.08
TW-48 TBS 7.39
MW-10 NM
TW-29 5432.29
TW-43 5427.95
TW-37 5428.76
TW-38 5430.40
TW-32 5431.95
TW-24 5433.51
TW-23 5434.59
TW-17 5435.95
TW-16 5436.78
TW-44 5428.63
TW-33 5432.67
TW-28 5433.57
TW-25 5434.36
TW-22 5435.00
TW-15 5437.02
TW-10 5437.43
TW-18 5436.07
TW-9 5438.07
TW-36 5428.52
TW-26 5434.07
TW-21 DAMAGED NM
TW-19 5440.47
TW-14 5436.79
TW-11 5437.87
TW-8 5438.26
TW-35 5433.79
TW-20 5435.76
TW-13 5437.07
TW-12 5437.70
TW-7 5438.58
TW-4 5439.22
TW-34 5435.66
TW-6 5438.46
TW-5 5439.25
TW-3 5439.47
TW-2 5439.98
TW-1 5440.47

FIGURE 3

FREE PRODUCT THICKNESS CONTOURS NOVEMBER 2011

THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY: N. Willis	**DATE DRAWN:** February 2, 2009
REVISIONS BY: C. Lameman	**DATE REVISED:** December 5, 2011
CHECKED BY: D. Watson	**DATE CHECKED:** December 6, 2011
APPROVED BY: E. McNally	**DATE APPROVED:** February 10, 2012

LEGEND

- MONITOR WELL LOCATIONS
- MPE REMEDIATION WELL
- 1.54 FREE PRODUCT THICKNESS IN FEET
- —0.25— FREE PRODUCT THICKNESS CONTOUR IN FEET

NOTE: ALL MEASUREMENTS WERE MADE ON NOVEMBER 17 - 22, 2011. LOCATIONS OF TW-45 THROUGH TW-50 ARE APPROXIMATE.

SCALE
200 100 0 200
50
(1 INCH = 200 FEET)

FIGURE 4

DISSOLVED BENZENE CONCENTRATION CONTOURS NOVEMBER 2011

THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY: N. Willis	**DATE DRAWN:** February 2, 2009
REVISIONS BY: C. Lameman	**DATE REVISED:** February 17, 2012
CHECKED BY: E. McNally	**DATE CHECKED:** February 17, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** February 17, 2012

LEGEND

- MONITOR WELL LOCATIONS
- 210 DISSOLVED BENZENE CONCENTRATIONS
- —10— DISSOLVED BENZENE CONCENTRATION CONTOURS

NOTE: ALL SAMPLED WERE COLLECTED ON NOVEMBER 17 AND 22, 2011. ALL SAMPLES ANALYZED PER EPA METHOD 8260B. ALL ANALYTICAL RESULTS REPORTED AS µg/L (PPB). LOCATIONS OF TW-45 THROUGH TW-50 ARE APPROXIMATE.

SCALE
200 100 0 200
50
(1 INCH = 200 FEET)

S:\ANIMAS 2000\2011 PROJECTS\THRIFTWAY\810 REFINERY\MAPS AND DRAWINGS\NOVEMBER 2011\FIGURE 4 DISSOLVED BENZENE CONTOURS

FIGURE 5

DISSOLVED MTBE CONCENTRATION CONTOURS NOVEMBER 2011

THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY: N. Willis	**DATE DRAWN:** February 2, 2009
REVISIONS BY: C. Lameman	**DATE REVISED:** February 17, 2012
CHECKED BY: E. McNally	**DATE CHECKED:** February 17, 2012
APPROVED BY: E. McNally	**DATE APPROVED:** February 17, 2012

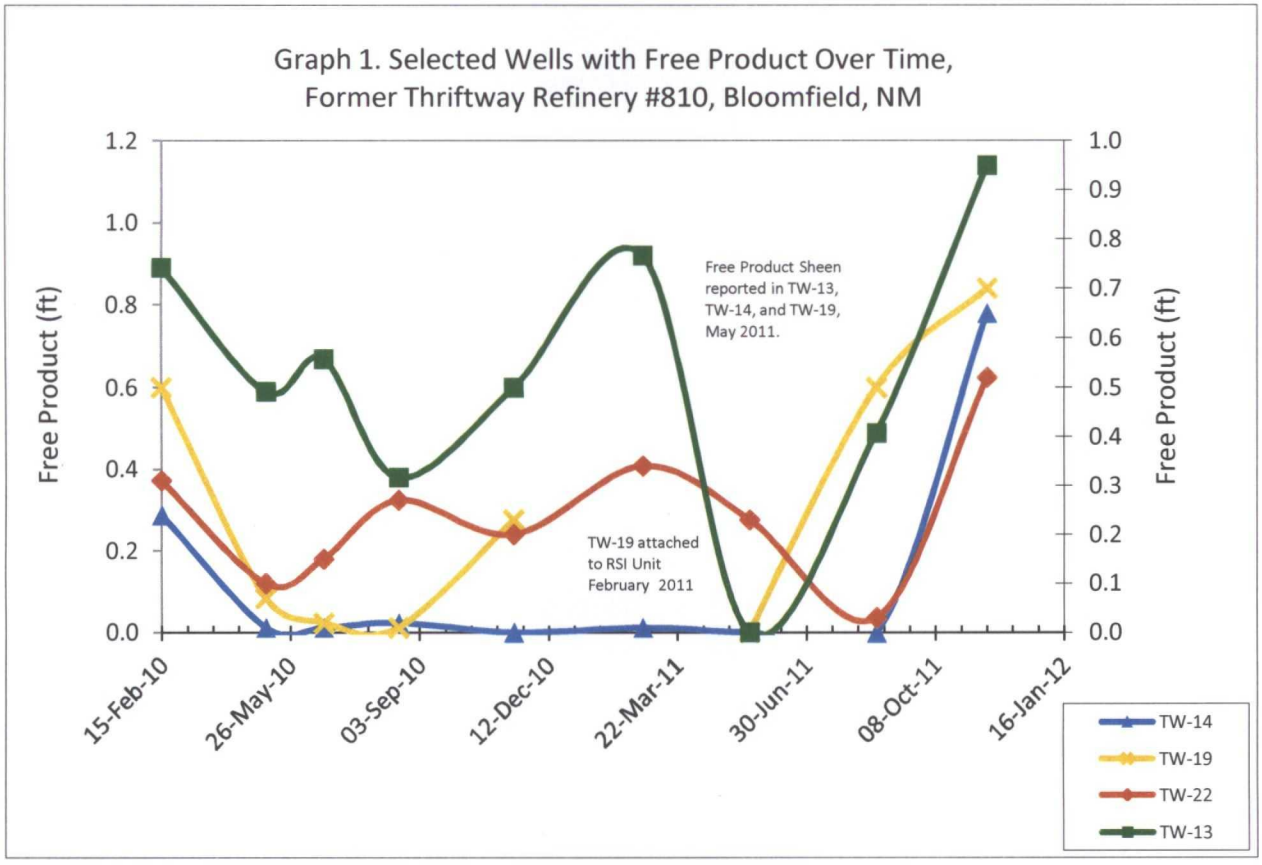
LEGEND

- MONITOR WELL LOCATIONS
- 140 DISSOLVED MTBE CONCENTRATIONS
- —10— DISSOLVED MTBE CONCENTRATION CONTOURS

NOTE: ALL SAMPLED WERE COLLECTED ON NOVEMBER 17 AND 22, 2011. ALL SAMPLES ANALYZED PER EPA METHOD 8260B. ALL ANALYTICAL RESULTS REPORTED AS µg/L (PPB). LOCATIONS OF TW-45 THROUGH TW-50 ARE APPROXIMATE.

SCALE
200 100 0 200
50
(1 INCH = 200 FEET)

S:\ANIMAS 2000\2011 PROJECTS\THRIFTWAY\810 REFINERY\MAPS AND DRAWINGS\NOVEMBER 2011\FIGURE 5 DISSOLVED MTBE CONTOURS


Graph 1. Selected Wells with Free Product Over Time,
Former Thriftway Refinery #810, Bloomfield, NM
Free Product (ft)
Free Product (ft)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
Free Product Sheen reported in TW-13, TW-14, and TW-19, May 2011.
TW-19 attached to RSI Unit February 2011
15-Feb-10
26-May-10
03-Sep-10
12-Dec-10
22-Mar-11
30-Jun-11
08-Oct-11
16-Jan-12
TW-14
TW-19
TW-22
TW-13

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Thursday, December 15, 2011

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401

TEL: (505) 564-2281
FAX (505) 324-2022

RE: Former Thirftway Refinery #810

Order No.: 1111806

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory, Inc. received 7 sample(s) on 11/18/2011 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued December 07, 2011

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682

Hall Environmental Analysis Laboratory, Inc. **Date:** *15-Dec-11*

CLIENT:	Animas Environmental Services
Project:	Former Thirftway Refinery #810
Lab Order:	1111806

CASE NARRATIVE

Analytical notes regarding eC:
The water sample temperatures rose above 6 degrees C for 2 days, while at the laboratory, due to a power outage.

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-7
Lab Order:	1111806	**Collection Date:**	11/17/2011 9:38:00 AM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/18/2011
Lab ID:	1111806-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/22/2011 12:57:42 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/22/2011 12:57:42 AM
Surr: DNOP	97.6	81.1-147		%REC	1	11/22/2011 12:57:42 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	1.4	0.050		mg/L	1	11/21/2011 7:10:15 PM
Surr: BFB	144	65.4-141	S	%REC	1	11/21/2011 7:10:15 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Fluoride	0.51	0.10		mg/L	1	11/29/2011 12:39:11 AM
Chloride	40	10		mg/L	20	11/19/2011 3:34:42 AM
Bromide	ND	0.50		mg/L	5	11/29/2011 12:50:25 AM
Sulfate	2800	50		mg/L	100	11/22/2011 12:47:04 AM
SM2340B: HARDNESS						Analyst: **ELS**
Hardness (As CaCO3)	1400	1.0		mg/L	1	11/23/2011
EPA METHOD 7470: MERCURY						Analyst: **JLF**
Mercury	ND	0.00020		mg/L	1	11/21/2011 2:01:47 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **ELS**
Calcium	490	10		mg/L	10	11/23/2011 1:55:15 PM
Magnesium	53	1.0		mg/L	1	11/23/2011 12:33:35 PM
Potassium	2.3	1.0		mg/L	1	11/23/2011 12:33:35 PM
Sodium	770	10		mg/L	10	11/23/2011 1:55:15 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **ELS**
Arsenic	ND	0.020		mg/L	1	11/22/2011 7:06:49 AM
Barium	0.21	0.020		mg/L	1	11/23/2011 12:23:20 PM
Cadmium	ND	0.0020		mg/L	1	11/23/2011 12:23:20 PM
Chromium	0.0064	0.0060		mg/L	1	11/23/2011 12:23:20 PM
Lead	ND	0.0050		mg/L	1	11/22/2011 7:06:49 AM
Selenium	ND	0.050		mg/L	1	11/22/2011 7:06:49 AM
Silver	ND	0.0050		mg/L	1	11/23/2011 12:23:20 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **NSB**
Benzene	1.5	1.0		µg/L	1	11/23/2011 12:27:37 AM
Toluene	19	1.0		µg/L	1	11/23/2011 12:27:37 AM
Ethylbenzene	100	5.0		µg/L	5	11/23/2011 9:07:46 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/23/2011 12:27:37 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-7
Lab Order:	1111806	**Collection Date:**	11/17/2011 9:38:00 AM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/18/2011
Lab ID:	1111806-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **NSB**
Naphthalene	25	2.0		µg/L	1	11/23/2011 12:27:37 AM
1-Methylnaphthalene	5.6	4.0		µg/L	1	11/23/2011 12:27:37 AM
2-Methylnaphthalene	9.4	4.0		µg/L	1	11/23/2011 12:27:37 AM
Xylenes, Total	45	2.0		µg/L	1	11/23/2011 12:27:37 AM
Surr: 1,2-Dichloroethane-d4	99.5	70-130		%REC	1	11/23/2011 12:27:37 AM
Surr: 4-Bromofluorobenzene	101	73-131		%REC	1	11/23/2011 12:27:37 AM
Surr: Dibromofluoromethane	92.6	70-130		%REC	1	11/23/2011 12:27:37 AM
Surr: Toluene-d8	92.9	70-130		%REC	1	11/23/2011 12:27:37 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **IC**
Specific Conductance	4300	0.010		µmhos/cm	1	11/29/2011 2:43:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	4230	40.0		mg/L	1	11/29/2011 12:53:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-18
Lab Order:	1111806	**Collection Date:**	11/17/2011 10:13:00 AM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/18/2011
Lab ID:	1111806-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/22/2011 1:31:36 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/22/2011 1:31:36 AM
Surr: DNOP	101	81.1-147		%REC	1	11/22/2011 1:31:36 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	0.12	0.050		mg/L	1	11/21/2011 9:05:35 PM
Surr: BFB	102	65.4-141		%REC	1	11/21/2011 9:05:35 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Fluoride	0.73	0.50		mg/L	5	12/1/2011 5:00:57 AM
Chloride	66	2.5		mg/L	5	12/1/2011 5:00:57 AM
Bromide	0.26	0.10		mg/L	1	11/29/2011 1:24:06 AM
Sulfate	4700	50		mg/L	100	12/1/2011 4:49:44 AM
SM2340B: HARDNESS						Analyst: **ELS**
Hardness (As CaCO3)	1400	1.0		mg/L	1	11/23/2011
EPA METHOD 7470: MERCURY						Analyst: **JLF**
Mercury	ND	0.00020		mg/L	1	11/21/2011 2:03:32 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **ELS**
Calcium	480	20		mg/L	20	11/23/2011 1:57:18 PM
Magnesium	49	1.0		mg/L	1	11/23/2011 12:41:50 PM
Potassium	4.1	1.0		mg/L	1	11/23/2011 12:41:50 PM
Sodium	1100	20		mg/L	20	11/23/2011 1:57:18 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **ELS**
Arsenic	ND	0.020		mg/L	1	11/22/2011 7:09:02 AM
Barium	0.14	0.020		mg/L	1	11/23/2011 12:27:08 PM
Cadmium	ND	0.0020		mg/L	1	11/23/2011 12:27:08 PM
Chromium	0.0088	0.0060		mg/L	1	11/23/2011 12:27:08 PM
Lead	0.0058	0.0050		mg/L	1	11/22/2011 7:09:02 AM
Selenium	ND	0.050		mg/L	1	11/22/2011 7:09:02 AM
Silver	ND	0.0050		mg/L	1	11/23/2011 12:27:08 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **NSB**
Benzene	1.9	1.0		µg/L	1	11/23/2011 12:55:37 AM
Toluene	ND	1.0		µg/L	1	11/23/2011 12:55:37 AM
Ethylbenzene	13	1.0		µg/L	1	11/23/2011 12:55:37 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/23/2011 12:55:37 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-18
Lab Order:	1111806	**Collection Date:**	11/17/2011 10:13:00 AM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/18/2011
Lab ID:	1111806-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **NSB**
Naphthalene	ND	2.0		µg/L	1	11/23/2011 12:55:37 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/23/2011 12:55:37 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/23/2011 12:55:37 AM
Xylenes, Total	ND	2.0		µg/L	1	11/23/2011 12:55:37 AM
Surr: 1,2-Dichloroethane-d4	96.9	70-130		%REC	1	11/23/2011 12:55:37 AM
Surr: 4-Bromofluorobenzene	99.4	73-131		%REC	1	11/23/2011 12:55:37 AM
Surr: Dibromofluoromethane	96.2	70-130		%REC	1	11/23/2011 12:55:37 AM
Surr: Toluene-d8	96.2	70-130		%REC	1	11/23/2011 12:55:37 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **IC**
Specific Conductance	5400	0.010		µmhos/cm	1	11/29/2011 2:47:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	5360	40.0		mg/L	1	11/29/2011 12:53:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-30
Lab Order:	1111806	**Collection Date:**	11/17/2011 11:02:00 AM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/18/2011
Lab ID:	1111806-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/22/2011 2:04:56 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/22/2011 2:04:56 AM
Surr: DNOP	102	81.1-147		%REC	1	11/22/2011 2:04:56 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	0.16	0.050		mg/L	1	11/22/2011 12:27:17 AM
Surr: BFB	102	65.4-141		%REC	1	11/22/2011 12:27:17 AM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Fluoride	ND	1.0		mg/L	10	12/1/2011 4:38:30 AM
Chloride	1400	50		mg/L	100	11/22/2011 1:09:32 AM
Bromide	3.1	1.0		mg/L	10	12/1/2011 4:38:30 AM
Sulfate	1900	50		mg/L	100	11/22/2011 1:09:32 AM
SM2340B: HARDNESS						Analyst: **ELS**
Hardness (As CaCO3)	1900	1.0		mg/L	1	11/23/2011
EPA METHOD 7470: MERCURY						Analyst: **JLF**
Mercury	ND	0.00020		mg/L	1	11/21/2011 2:08:49 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **ELS**
Calcium	670	20		mg/L	20	11/23/2011 1:59:21 PM
Magnesium	61	1.0		mg/L	1	11/23/2011 12:46:53 PM
Potassium	9.3	1.0		mg/L	1	11/23/2011 12:46:53 PM
Sodium	1500	20		mg/L	20	11/23/2011 1:59:21 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **ELS**
Arsenic	0.040	0.020		mg/L	1	11/22/2011 7:11:30 AM
Barium	0.41	0.020		mg/L	1	11/23/2011 12:29:30 PM
Cadmium	ND	0.0020		mg/L	1	11/23/2011 12:29:30 PM
Chromium	0.011	0.0060		mg/L	1	11/23/2011 12:29:30 PM
Lead	ND	0.0050		mg/L	1	11/22/2011 7:11:30 AM
Selenium	ND	0.050		mg/L	1	11/22/2011 7:11:30 AM
Silver	ND	0.0050		mg/L	1	11/23/2011 12:29:30 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **NSB**
Benzene	4.9	1.0		µg/L	1	11/23/2011 9:35:38 PM
Toluene	ND	1.0		µg/L	1	11/23/2011 9:35:38 PM
Ethylbenzene	ND	1.0		µg/L	1	11/23/2011 9:35:38 PM
Methyl tert-butyl ether (MTBE)	7.9	1.0		µg/L	1	11/23/2011 9:35:38 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-30
Lab Order:	1111806	**Collection Date:**	11/17/2011 11:02:00 AM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/18/2011
Lab ID:	1111806-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **NSB**
Naphthalene	ND	2.0		µg/L	1	11/23/2011 9:35:38 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/23/2011 9:35:38 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/23/2011 9:35:38 PM
Xylenes, Total	ND	2.0		µg/L	1	11/23/2011 9:35:38 PM
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	1	11/23/2011 9:35:38 PM
Surr: 4-Bromofluorobenzene	104	73-131		%REC	1	11/23/2011 9:35:38 PM
Surr: Dibromofluoromethane	102	70-130		%REC	1	11/23/2011 9:35:38 PM
Surr: Toluene-d8	99.8	70-130		%REC	1	11/23/2011 9:35:38 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **IC**
Specific Conductance	7300	0.010		µmhos/cm	1	11/29/2011 2:52:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	6310	100		mg/L	1	11/29/2011 12:53:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-50
Lab Order:	1111806	**Collection Date:**	11/17/2011 12:15:00 PM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/18/2011
Lab ID:	1111806-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/22/2011 2:38:17 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/22/2011 2:38:17 AM
Surr: DNOP	104	81.1-147		%REC	1	11/22/2011 2:38:17 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	0.84	0.25		mg/L	5	11/22/2011 12:56:05 AM
Surr: BFB	105	65.4-141		%REC	5	11/22/2011 12:56:05 AM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Fluoride	ND	0.50		mg/L	5	12/1/2011 4:27:16 AM
Chloride	990	50		mg/L	100	11/22/2011 1:32:00 AM
Bromide	0.64	0.50		mg/L	5	12/1/2011 4:27:16 AM
Sulfate	1100	50		mg/L	100	11/22/2011 1:32:00 AM
SM2340B: HARDNESS						Analyst: **ELS**
Hardness (As CaCO3)	1400	1.0		mg/L	1	11/23/2011
EPA METHOD 7470: MERCURY						Analyst: **JLF**
Mercury	ND	0.00020		mg/L	1	11/21/2011 2:10:35 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **ELS**
Calcium	480	10		mg/L	10	11/23/2011 2:01:29 PM
Magnesium	55	1.0		mg/L	1	11/23/2011 12:49:01 PM
Potassium	5.7	1.0		mg/L	1	11/23/2011 12:49:01 PM
Sodium	900	10		mg/L	10	11/23/2011 2:01:29 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **ELS**
Arsenic	ND	0.020		mg/L	1	11/22/2011 7:15:09 AM
Barium	0.10	0.020		mg/L	1	11/23/2011 12:31:42 PM
Cadmium	ND	0.0020		mg/L	1	11/23/2011 12:31:42 PM
Chromium	ND	0.0060		mg/L	1	11/23/2011 12:31:42 PM
Lead	ND	0.0050		mg/L	1	11/22/2011 7:15:09 AM
Selenium	ND	0.050		mg/L	1	11/22/2011 7:15:09 AM
Silver	ND	0.0050		mg/L	1	11/23/2011 12:31:42 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	11/23/2011 10:03:43 PM
Toluene	ND	1.0		µg/L	1	11/23/2011 10:03:43 PM
Ethylbenzene	14	1.0		µg/L	1	11/23/2011 10:03:43 PM
Methyl tert-butyl ether (MTBE)	18	1.0		µg/L	1	11/23/2011 10:03:43 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Dec-11*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-50
Lab Order:	1111806	**Collection Date:**	11/17/2011 12:15:00 PM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/18/2011
Lab ID:	1111806-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **NSB**
Naphthalene	ND	2.0		µg/L	1	11/23/2011 10:03:43 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/23/2011 10:03:43 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/23/2011 10:03:43 PM
Xylenes, Total	10	2.0		µg/L	1	11/23/2011 10:03:43 PM
Surr: 1,2-Dichloroethane-d4	99.7	70-130		%REC	1	11/23/2011 10:03:43 PM
Surr: 4-Bromofluorobenzene	104	73-131		%REC	1	11/23/2011 10:03:43 PM
Surr: Dibromofluoromethane	96.4	70-130		%REC	1	11/23/2011 10:03:43 PM
Surr: Toluene-d8	97.1	70-130		%REC	1	11/23/2011 10:03:43 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **IC**
Specific Conductance	5300	0.010		µmhos/cm	1	11/29/2011 2:56:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	4160	40.0		mg/L	1	11/29/2011 12:53:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-11
Lab Order:	1111806	**Collection Date:**	11/17/2011 9:38:00 AM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/18/2011
Lab ID:	1111806-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/22/2011 3:11:55 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/22/2011 3:11:55 AM
Surr: DNOP	99.4	81.1-147		%REC	1	11/22/2011 3:11:55 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	11/22/2011 1:53:40 AM
Surr: BFB	98.8	65.4-141		%REC	1	11/22/2011 1:53:40 AM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	11/23/2011 10:31:42 PM
Toluene	ND	1.0		µg/L	1	11/23/2011 10:31:42 PM
Ethylbenzene	ND	1.0		µg/L	1	11/23/2011 10:31:42 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/23/2011 10:31:42 PM
Naphthalene	ND	2.0		µg/L	1	11/23/2011 10:31:42 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/23/2011 10:31:42 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/23/2011 10:31:42 PM
Xylenes, Total	ND	2.0		µg/L	1	11/23/2011 10:31:42 PM
Surr: 1,2-Dichloroethane-d4	96.9	70-130		%REC	1	11/23/2011 10:31:42 PM
Surr: 4-Bromofluorobenzene	103	73-131		%REC	1	11/23/2011 10:31:42 PM
Surr: Dibromofluoromethane	93.8	70-130		%REC	1	11/23/2011 10:31:42 PM
Surr: Toluene-d8	97.7	70-130		%REC	1	11/23/2011 10:31:42 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-31
Lab Order:	1111806	**Collection Date:**	11/17/2011 11:40:00 AM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/18/2011
Lab ID:	1111806-06	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/22/2011 3:46:05 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/22/2011 3:46:05 AM
Surr: DNOP	100	81.1-147		%REC	1	11/22/2011 3:46:05 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	11/22/2011 2:22:27 AM
Surr: BFB	97.8	65.4-141		%REC	1	11/22/2011 2:22:27 AM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	11/23/2011 10:59:47 PM
Toluene	ND	1.0		µg/L	1	11/23/2011 10:59:47 PM
Ethylbenzene	ND	1.0		µg/L	1	11/23/2011 10:59:47 PM
Methyl tert-butyl ether (MTBE)	1.7	1.0		µg/L	1	11/23/2011 10:59:47 PM
Naphthalene	ND	2.0		µg/L	1	11/23/2011 10:59:47 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/23/2011 10:59:47 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/23/2011 10:59:47 PM
Xylenes, Total	ND	2.0		µg/L	1	11/23/2011 10:59:47 PM
Surr: 1,2-Dichloroethane-d4	92.2	70-130		%REC	1	11/23/2011 10:59:47 PM
Surr: 4-Bromofluorobenzene	108	73-131		%REC	1	11/23/2011 10:59:47 PM
Surr: Dibromofluoromethane	93.5	70-130		%REC	1	11/23/2011 10:59:47 PM
Surr: Toluene-d8	98.3	70-130		%REC	1	11/23/2011 10:59:47 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *15-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-39
Lab Order:	1111806	**Collection Date:**	11/17/2011 1:42:00 PM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/18/2011
Lab ID:	1111806-07	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/22/2011 4:20:14 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/22/2011 4:20:14 AM
Surr: DNOP	102	81.1-147		%REC	1	11/22/2011 4:20:14 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	1.4	0.25		mg/L	5	11/22/2011 2:51:17 AM
Surr: BFB	128	65.4-141		%REC	5	11/22/2011 2:51:17 AM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **NSB**
Benzene	9.0	5.0		µg/L	5	11/23/2011 11:27:50 PM
Toluene	ND	5.0		µg/L	5	11/23/2011 11:27:50 PM
Ethylbenzene	82	5.0		µg/L	5	11/23/2011 11:27:50 PM
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	5	11/23/2011 11:27:50 PM
Naphthalene	ND	10		µg/L	5	11/23/2011 11:27:50 PM
1-Methylnaphthalene	ND	20		µg/L	5	11/23/2011 11:27:50 PM
2-Methylnaphthalene	ND	20		µg/L	5	11/23/2011 11:27:50 PM
Xylenes, Total	ND	10		µg/L	5	11/23/2011 11:27:50 PM
Surr: 1,2-Dichloroethane-d4	98.7	70-130		%REC	5	11/23/2011 11:27:50 PM
Surr: 4-Bromofluorobenzene	104	73-131		%REC	5	11/23/2011 11:27:50 PM
Surr: Dibromofluoromethane	96.6	70-130		%REC	5	11/23/2011 11:27:50 PM
Surr: Toluene-d8	97.8	70-130		%REC	5	11/23/2011 11:27:50 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: Former Thriftway Refinery #810 **Work Order:** 1111806

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: 1111806-01CMSD		*MSD*				Batch ID:	R49283	Analysis Date:		11/29/2011 1:12:53 AM	
Fluoride	1.079	mg/L	0.10	0.5	0.5593	104	71.7	114	3.50	20	
Bromide	3.036	mg/L	0.10	2.5	0.171	115	82	112	9.57	20	S
Sample ID: MB		*MBLK*				Batch ID:	R49195	Analysis Date:		11/18/2011 12:25:01 PM	
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	R49195	Analysis Date:		11/18/2011 10:31:25 PM	
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	R49230	Analysis Date:		11/21/2011 1:33:18 PM	
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	R49283	Analysis Date:		11/28/2011 4:58:49 PM	
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	R49374	Analysis Date:		11/30/2011 10:51:05 AM	
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	R49374	Analysis Date:		11/30/2011 8:13:07 PM	
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Sulfate	ND	mg/L	0.50								
Sample ID: LCS		*LCS*				Batch ID:	R49195	Analysis Date:		11/18/2011 12:36:14 PM	
Chloride	4.839	mg/L	0.50	5	0	96.8	90	110			
Bromide	2.290	mg/L	0.10	2.5	0	91.6	90	110			
Sulfate	9.836	mg/L	0.50	10	0	98.4	90	110			
Sample ID: LCS		*LCS*				Batch ID:	R49195	Analysis Date:		11/18/2011 10:42:39 PM	
Fluoride	0.4991	mg/L	0.10	0.5	0	99.8	90	110			
Chloride	4.847	mg/L	0.50	5	0	96.9	90	110			
Bromide	2.295	mg/L	0.10	2.5	0	91.8	90	110			
Sulfate	9.807	mg/L	0.50	10	0	98.1	90	110			
Sample ID: LCS		*LCS*				Batch ID:	R49230	Analysis Date:		11/21/2011 1:44:32 PM	
Fluoride	0.4634	mg/L	0.10	0.5	0	92.7	90	110			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: Former Thirftway Refinery #810 **Work Order:** 1111806

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: LCS		*LCS*				Batch ID: **R49230**		Analysis Date:		11/21/2011 1:44:32 PM	
Chloride	4.729	mg/L	0.50	5	0	94.6	90	110			
Bromide	2.237	mg/L	0.10	2.5	0	89.5	90	110			S
Sulfate	9.638	mg/L	0.50	10	0	96.4	90	110			
Sample ID: LCS		*LCS*				Batch ID: **R49283**		Analysis Date:		11/28/2011 5:10:03 PM	
Fluoride	0.4619	mg/L	0.10	0.5	0	92.4	90	110			
Chloride	4.767	mg/L	0.50	5	0	95.3	90	110			
Bromide	2.343	mg/L	0.10	2.5	0	93.7	90	110			
Sulfate	9.680	mg/L	0.50	10	0	96.8	90	110			
Sample ID: LCS		*LCS*				Batch ID: **R49374**		Analysis Date:		11/30/2011 11:02:19 AM	
Fluoride	0.4961	mg/L	0.10	0.5	0	99.2	90	110			
Chloride	4.893	mg/L	0.50	5	0.12	95.5	90	110			
Bromide	2.311	mg/L	0.10	2.5	0	92.4	90	110			
Sulfate	9.835	mg/L	0.50	10	0	98.3	90	110			
Sample ID: LCS		*LCS*				Batch ID: **R49374**		Analysis Date:		11/30/2011 8:24:21 PM	
Fluoride	0.5122	mg/L	0.10	0.5	0	102	90	110			
Chloride	4.835	mg/L	0.50	5	0	96.7	90	110			
Bromide	2.384	mg/L	0.10	2.5	0	95.4	90	110			
Sulfate	9.652	mg/L	0.50	10	0	96.5	90	110			
Sample ID: 1111806-01CMS		*MS*				Batch ID: **R49283**		Analysis Date:		11/29/2011 1:01:39 AM	
Fluoride	1.042	mg/L	0.10	0.5	0.5593	96.5	71.7	114			
Bromide	2.759	mg/L	0.10	2.5	0.171	104	82	112			
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-29454		*MBLK*				Batch ID: **29454**		Analysis Date:		11/21/2011 6:09:26 PM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-29454		*LCS*				Batch ID: **29454**		Analysis Date:		11/21/2011 6:43:18 PM	
Diesel Range Organics (DRO)	5.053	mg/L	1.0	5	0	101	74	157			
Sample ID: LCSD-29454		*LCSD*				Batch ID: **29454**		Analysis Date:		11/21/2011 7:17:42 PM	
Diesel Range Organics (DRO)	5.264	mg/L	1.0	5	0	105	74	157	4.10	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 1111806-01A MSD		*MSD*				Batch ID: **R49225**		Analysis Date:		11/21/2011 8:07:54 PM	
Gasoline Range Organics (GRO)	1.912	mg/L	0.050	0.5	1.416	99.2	66.1	127	4.04	15.5	
Sample ID: 5ML-RB		*MBLK*				Batch ID: **R49225**		Analysis Date:		11/21/2011 1:04:36 PM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID: **R49225**		Analysis Date:		11/21/2011 12:35:47 PM	
Gasoline Range Organics (GRO)	0.5136	mg/L	0.050	0.5	0	103	92.1	117			
Sample ID: 1111806-01A MS		*MS*				Batch ID: **R49225**		Analysis Date:		11/21/2011 7:39:04 PM	
Gasoline Range Organics (GRO)	1.991	mg/L	0.050	0.5	1.416	115	66.1	127			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: Former Thirftway Refinery #810 **Work Order:** 1111806

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260: Volatiles Short List											
Sample ID: 5ml rb		*MBLK*				Batch ID:	**R49238**	Analysis Date:	11/22/2011 10:50:44 AM		
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 5ml rb		*MBLK*				Batch ID:	**R49258**	Analysis Date:	11/23/2011 9:26:43 AM		
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100ng lcs-c		*LCS*				Batch ID:	**R49238**	Analysis Date:	11/22/2011 3:59:35 PM		
Benzene	18.60	µg/L	1.0	20	0	93.0	81.1	130			
Toluene	21.55	µg/L	1.0	20	0	108	82.3	122			
Sample ID: 100ng lcs-c		*LCS*				Batch ID:	**R49258**	Analysis Date:	11/23/2011 3:32:40 PM		
Benzene	19.42	µg/L	1.0	20	0	97.1	81.1	130			
Toluene	20.82	µg/L	1.0	20	0	104	82.3	122			
Method: EPA Method 7470: Mercury											
Sample ID: MB-29452		*MBLK*				Batch ID:	**29452**	Analysis Date:	11/21/2011 1:47:31 PM		
Mercury	ND	mg/L	0.00020								
Sample ID: LCS-29452		*LCS*				Batch ID:	**29452**	Analysis Date:	11/21/2011 1:49:18 PM		
Mercury	0.005155	mg/L	0.00020	0.005	0	103	80	120			
Sample ID: LCSD-29452		*LCSD*				Batch ID:	**29452**	Analysis Date:	11/21/2011 1:51:04 PM		
Mercury	0.005076	mg/L	0.00020	0.005	0	102	80	120	1.55	0	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: Former Thirftway Refinery #810 **Work Order:** 1111806

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Dissolved Metals											
Sample ID: MB		*MBLK*				Batch ID: **R49253**		Analysis Date: 11/23/2011 11:44:07 AM			
Calcium	ND	mg/L	1.0								
Magnesium	ND	mg/L	1.0								
Potassium	ND	mg/L	1.0								
Sodium	ND	mg/L	1.0								
Sample ID: LCS		*LCS*				Batch ID: **R49253**		Analysis Date: 11/23/2011 11:46:03 AM			
Calcium	53.78	mg/L	1.0	50	0.0899	107	80	120			
Magnesium	53.59	mg/L	1.0	50	0.0937	107	80	120			
Potassium	51.65	mg/L	1.0	50	0	103	80	120			
Sodium	52.35	mg/L	1.0	50	0	105	80	120			
Sample ID: LCSRR		*LCSD*				Batch ID: **R49253**		Analysis Date: 11/23/2011 11:48:10 AM			
Calcium	52.79	mg/L	1.0	50	0.0899	105	80	120	1.86	20	
Magnesium	52.27	mg/L	1.0	50	0.0937	104	80	120	2.50	20	
Potassium	50.41	mg/L	1.0	50	0	101	80	120	2.42	20	
Sodium	50.95	mg/L	1.0	50	0	102	80	120	2.71	20	
Method: EPA 6010B: Total Recoverable Metals											
Sample ID: MB-29446		*MBLK*				Batch ID: **29446**		Analysis Date: 11/22/2011 6:44:39 AM			
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sample ID: LCS-29446		*LCS*				Batch ID: **29446**		Analysis Date: 11/22/2011 6:46:31 AM			
Arsenic	0.5078	mg/L	0.020	0.5	0	102	80	120			
Barium	0.4885	mg/L	0.020	0.5	0	97.7	80	120			
Cadmium	0.4824	mg/L	0.0020	0.5	0	96.5	80	120			
Chromium	0.4925	mg/L	0.0060	0.5	0	98.5	80	120			
Lead	0.4807	mg/L	0.0050	0.5	0	96.1	80	120			
Selenium	0.4737	mg/L	0.050	0.5	0	94.7	80	120			
Silver	0.09744	mg/L	0.0050	0.1	0	97.4	80	120			
Method: SM2540C MOD: Total Dissolved Solids											
Sample ID: MB-29499		*MBLK*				Batch ID: **29499**		Analysis Date: 11/29/2011 12:53:00 PM			
Total Dissolved Solids	ND	mg/L	20.0								
Sample ID: LCS-29499		*LCS*				Batch ID: **29499**		Analysis Date: 11/29/2011 12:53:00 PM			
Total Dissolved Solids	1033	mg/L	20.0	1000	0	103	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E Comanche
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name:
Former Thriftway Refinery #810

Project #:
AES 050204

Project Manager:
Ross Kennemer

Sampler: Chad Dawson

Sample Temperature:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	8015 TPH GRO and DRO	8260 VOCs see below	8270 SVOC see below	RCRA 8 Metals	Dissolved Metals(Ca, Mg, K, Na)6010	300.0 Bromide, Fluoride, Sulfate	Hardness CaCO3 6010	TDS 2540C	Specific Conductance EPA 120.1	Air Bubbles (Y or N)
11-17-11	0938	H_2O	TW-7	3-40 mL glass 1-500 mL plastic 1-125 mL plastic	3-HCl & 1-non HNO3 HNO3	1	X	X	X	X	X	X	X	X	X	
	1013		TW-18	1-1L plastic 1-1L Amber glass	Non Non	2	X	X	X	X	X	X	X	X	X	
	1102		TW-30	↓	↓	3	X	X	X	X	X	X	X	X	X	
	~~1140~~ 12:15		TW-~~30~~ 50	↓	↓	4	X	X	X	X	X	X	X	X	X	
	0958		TW-11	6-40 mL glass 1-1L Amber glass	3-HCl & 1-non non	5	X	X	X							
	~~1215~~ 11:40		TW-~~30~~ 31	↓	↓	6	X	X	X							
	1342		TW-39	↓	↓	7	X	X	X							

Date:	Time:	Relinquished by:	Received by:	Date	Time
11/17/11	16:11			11/17/11	1611
Date:	Time:	Relinquished by:	Received by:	Date	Time
11/17/11	1638			11/18/11	0915

Remarks: Run TPH 8015 prior to analyzing for 8260 and 8270. Run the full VOC spectrum only in the event the reported TPH-GRO is greater than 80 mg/L, if GRO is less than 80 mg/L run BTEX/total napthalenes and MTBE. SVOCs per EPA Method 8270D will be run if TPH-DRO value is greater than 200 mg/L. Direct Bill to BioTech. Per Andy 8015 GRO-DRO $60, discounted price for TDS.

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

Wednesday, December 14, 2011

Ross Kennemer
Animas Environmental Services
624 East Comanche
Farmington, NM 87401

TEL: (505) 564-2281
FAX (505) 324-2022

RE: Former Thirftway Refinery #810

Order No.: 1111901

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory, Inc. received 10 sample(s) on 11/23/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682

Hall Environmental Analysis Laboratory, Inc. Date: *14-Dec-11*

CLIENT:	Animas Environmental Services
Project:	Former Thirftway Refinery #810
Lab Order:	1111901

CASE NARRATIVE

Analytical notes regarding eC, TDS and SO4:
The water sample temperatures rose above 6 degrees C for 2 days, while at the laboratory, due to a power outage.

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-43
Lab Order:	1111901	**Collection Date:**	11/22/2011 8:55:00 AM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/23/2011
Lab ID:	1111901-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/28/2011 2:16:03 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/28/2011 2:16:03 PM
Surr: DNOP	104	81.1-147		%REC	1	11/28/2011 2:16:03 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	0.41	0.050		mg/L	1	11/30/2011 7:52:32 PM
Surr: BFB	93.3	65.4-141		%REC	1	11/30/2011 7:52:32 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **MMS**
Benzene	ND	1.0		µg/L	1	11/28/2011 12:06:16 PM
Toluene	1.1	1.0		µg/L	1	11/28/2011 12:06:16 PM
Ethylbenzene	ND	1.0		µg/L	1	11/28/2011 12:06:16 PM
Methyl tert-butyl ether (MTBE)	460	10		µg/L	10	11/28/2011 11:38:27 AM
Naphthalene	ND	2.0		µg/L	1	11/28/2011 12:06:16 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/28/2011 12:06:16 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/28/2011 12:06:16 PM
Xylenes, Total	ND	2.0		µg/L	1	11/28/2011 12:06:16 PM
Surr: 1,2-Dichloroethane-d4	75.7	70-130		%REC	1	11/28/2011 12:06:16 PM
Surr: 4-Bromofluorobenzene	83.2	73-131		%REC	1	11/28/2011 12:06:16 PM
Surr: Dibromofluoromethane	84.5	70-130		%REC	1	11/28/2011 12:06:16 PM
Surr: Toluene-d8	89.1	70-130		%REC	1	11/28/2011 12:06:16 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-42
Lab Order:	1111901	**Collection Date:**	11/22/2011 9:20:00 AM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/23/2011
Lab ID:	1111901-02	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/28/2011 2:49:55 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/28/2011 2:49:55 PM
Surr: DNOP	109	81.1-147		%REC	1	11/28/2011 2:49:55 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	0.17	0.050		mg/L	1	11/30/2011 8:22:51 PM
Surr: BFB	104	65.4-141		%REC	1	11/30/2011 8:22:51 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **MMS**
Benzene	ND	1.0		µg/L	1	11/28/2011 1:01:53 PM
Toluene	ND	1.0		µg/L	1	11/28/2011 1:01:53 PM
Ethylbenzene	ND	1.0		µg/L	1	11/28/2011 1:01:53 PM
Methyl tert-butyl ether (MTBE)	53	1.0		µg/L	1	11/28/2011 1:01:53 PM
Naphthalene	ND	2.0		µg/L	1	11/28/2011 1:01:53 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/28/2011 1:01:53 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/28/2011 1:01:53 PM
Xylenes, Total	ND	2.0		µg/L	1	11/28/2011 1:01:53 PM
Surr: 1,2-Dichloroethane-d4	78.7	70-130		%REC	1	11/28/2011 1:01:53 PM
Surr: 4-Bromofluorobenzene	88.6	73-131		%REC	1	11/28/2011 1:01:53 PM
Surr: Dibromofluoromethane	92.7	70-130		%REC	1	11/28/2011 1:01:53 PM
Surr: Toluene-d8	88.1	70-130		%REC	1	11/28/2011 1:01:53 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-41
Lab Order:	1111901	**Collection Date:**	11/22/2011 9:55:00 AM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/23/2011
Lab ID:	1111901-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	2.3	1.0		mg/L	1	11/28/2011 3:24:03 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/28/2011 3:24:03 PM
Surr: DNOP	112	81.1-147		%REC	1	11/28/2011 3:24:03 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	10	0.25		mg/L	5	11/30/2011 11:24:23 PM
Surr: BFB	107	65.4-141		%REC	5	11/30/2011 11:24:23 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Fluoride	ND	0.50		mg/L	5	12/2/2011 2:03:56 AM
Chloride	640	50		mg/L	100	12/2/2011 2:15:09 AM
Bromide	0.52	0.50		mg/L	5	12/2/2011 2:03:56 AM
Sulfate	510	50		mg/L	100	12/2/2011 2:15:09 AM
SM2340B: HARDNESS						Analyst: **ELS**
Hardness (As CaCO3)	890	1.0		mg/L	1	12/13/2011
EPA METHOD 7470: MERCURY						Analyst: **JLF**
Mercury	ND	0.00020		mg/L	1	11/30/2011 2:50:47 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **ELS**
Calcium	230	10		mg/L	10	11/28/2011 9:53:05 AM
Magnesium	50	1.0		mg/L	1	11/28/2011 9:20:39 AM
Potassium	4.8	1.0		mg/L	1	11/28/2011 9:20:39 AM
Sodium	860	10		mg/L	10	11/29/2011 9:28:58 AM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **ELS**
Arsenic	0.029	0.020		mg/L	1	11/28/2011 9:29:53 AM
Barium	0.75	0.020		mg/L	1	11/28/2011 9:29:53 AM
Cadmium	ND	0.0020		mg/L	1	11/28/2011 9:29:53 AM
Chromium	ND	0.0060		mg/L	1	11/28/2011 9:29:53 AM
Lead	ND	0.0050		mg/L	1	11/28/2011 9:29:53 AM
Selenium	ND	0.050		mg/L	1	11/28/2011 9:29:53 AM
Silver	ND	0.0050		mg/L	1	11/28/2011 9:29:53 AM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **MMS**
Benzene	110	10		µg/L	10	11/28/2011 2:53:02 PM
Toluene	ND	10		µg/L	10	11/28/2011 2:53:02 PM
Ethylbenzene	470	10		µg/L	10	11/28/2011 2:53:02 PM
Methyl tert-butyl ether (MTBE)	13	10		µg/L	10	11/28/2011 2:53:02 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-41
Lab Order:	1111901	**Collection Date:**	11/22/2011 9:55:00 AM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/23/2011
Lab ID:	1111901-03	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **MMS**
Naphthalene	68	20		µg/L	10	11/28/2011 2:53:02 PM
1-Methylnaphthalene	ND	40		µg/L	10	11/28/2011 2:53:02 PM
2-Methylnaphthalene	ND	40		µg/L	10	11/28/2011 2:53:02 PM
Xylenes, Total	1800	20		µg/L	10	11/28/2011 2:53:02 PM
Surr: 1,2-Dichloroethane-d4	78.5	70-130		%REC	10	11/28/2011 2:53:02 PM
Surr: 4-Bromofluorobenzene	82.7	73-131		%REC	10	11/28/2011 2:53:02 PM
Surr: Dibromofluoromethane	88.8	70-130		%REC	10	11/28/2011 2:53:02 PM
Surr: Toluene-d8	85.1	70-130		%REC	10	11/28/2011 2:53:02 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **IC**
Specific Conductance	4300	0.010		µmhos/cm	1	11/29/2011 3:12:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	3300	100		mg/L	1	11/30/2011 1:26:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-37
Lab Order:	1111901	**Collection Date:**	11/22/2011 10:20:00 AM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/23/2011
Lab ID:	1111901-04	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	2.0	1.0		mg/L	1	11/28/2011 4:32:49 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/28/2011 4:32:49 PM
Surr: DNOP	110	81.1-147		%REC	1	11/28/2011 4:32:49 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	1.7	0.25		mg/L	5	12/1/2011 12:24:43 AM
Surr: BFB	80.8	65.4-141		%REC	5	12/1/2011 12:24:43 AM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **MMS**
Benzene	210	10		µg/L	10	11/28/2011 3:48:44 PM
Toluene	ND	1.0		µg/L	1	11/28/2011 4:18:08 PM
Ethylbenzene	ND	1.0		µg/L	1	11/28/2011 4:18:08 PM
Methyl tert-butyl ether (MTBE)	110	1.0		µg/L	1	11/28/2011 4:18:08 PM
Naphthalene	ND	2.0		µg/L	1	11/28/2011 4:18:08 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/28/2011 4:18:08 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/28/2011 4:18:08 PM
Xylenes, Total	4.5	2.0		µg/L	1	11/28/2011 4:18:08 PM
Surr: 1,2-Dichloroethane-d4	80.2	70-130		%REC	1	11/28/2011 4:18:08 PM
Surr: 4-Bromofluorobenzene	83.6	73-131		%REC	1	11/28/2011 4:18:08 PM
Surr: Dibromofluoromethane	102	70-130		%REC	1	11/28/2011 4:18:08 PM
Surr: Toluene-d8	83.8	70-130		%REC	1	11/28/2011 4:18:08 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-35
Lab Order:	1111901	**Collection Date:**	11/22/2011 11:30:00 AM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/23/2011
Lab ID:	1111901-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/28/2011 5:07:28 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/28/2011 5:07:28 PM
Surr: DNOP	114	81.1-147		%REC	1	11/28/2011 5:07:28 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/1/2011 1:25:14 AM
Surr: BFB	85.9	65.4-141		%REC	1	12/1/2011 1:25:14 AM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Fluoride	0.74	0.50		mg/L	5	12/2/2011 2:26:23 AM
Chloride	81	2.5		mg/L	5	12/2/2011 2:26:23 AM
Bromide	0.72	0.50		mg/L	5	12/2/2011 2:26:23 AM
Sulfate	4600	100		mg/L	200	12/2/2011 2:37:38 AM
SM2340B: HARDNESS						Analyst: **ELS**
Hardness (As CaCO3)	1500	1.0		mg/L	1	12/13/2011
EPA METHOD 7470: MERCURY						Analyst: **JLF**
Mercury	ND	0.00020		mg/L	1	11/30/2011 2:31:25 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **ELS**
Calcium	460	10		mg/L	10	11/28/2011 9:55:04 AM
Magnesium	90	1.0		mg/L	1	11/28/2011 9:23:13 AM
Potassium	8.2	1.0		mg/L	1	11/28/2011 9:23:13 AM
Sodium	1700	50		mg/L	50	11/29/2011 9:36:05 AM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **ELS**
Arsenic	0.036	0.020		mg/L	1	11/28/2011 9:32:17 AM
Barium	0.028	0.020		mg/L	1	11/28/2011 9:32:17 AM
Cadmium	ND	0.0020		mg/L	1	11/28/2011 9:32:17 AM
Chromium	ND	0.0060		mg/L	1	11/28/2011 9:32:17 AM
Lead	ND	0.0050		mg/L	1	11/28/2011 9:32:17 AM
Selenium	ND	0.050		mg/L	1	11/28/2011 9:32:17 AM
Silver	ND	0.0050		mg/L	1	11/28/2011 9:32:17 AM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **MMS**
Benzene	ND	1.0		µg/L	1	11/28/2011 5:13:42 PM
Toluene	ND	1.0		µg/L	1	11/28/2011 5:13:42 PM
Ethylbenzene	ND	1.0		µg/L	1	11/28/2011 5:13:42 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/28/2011 5:13:42 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-35
Lab Order:	1111901	**Collection Date:**	11/22/2011 11:30:00 AM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/23/2011
Lab ID:	1111901-05	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **MMS**
Naphthalene	ND	2.0		µg/L	1	11/28/2011 5:13:42 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/28/2011 5:13:42 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/28/2011 5:13:42 PM
Xylenes, Total	ND	2.0		µg/L	1	11/28/2011 5:13:42 PM
Surr: 1,2-Dichloroethane-d4	75.0	70-130		%REC	1	11/28/2011 5:13:42 PM
Surr: 4-Bromofluorobenzene	90.8	73-131		%REC	1	11/28/2011 5:13:42 PM
Surr: Dibromofluoromethane	87.1	70-130		%REC	1	11/28/2011 5:13:42 PM
Surr: Toluene-d8	88.9	70-130		%REC	1	11/28/2011 5:13:42 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **IC**
Specific Conductance	6700	0.010		µmhos/cm	1	11/29/2011 3:16:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	7180	100		mg/L	1	11/30/2011 1:26:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-34
Lab Order:	1111901	**Collection Date:**	11/22/2011 12:12:00 PM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/23/2011
Lab ID:	1111901-06	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/28/2011 5:42:08 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/28/2011 5:42:08 PM
Surr: DNOP	110	81.1-147		%REC	1	11/28/2011 5:42:08 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/1/2011 1:55:38 AM
Surr: BFB	91.1	65.4-141		%REC	1	12/1/2011 1:55:38 AM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Fluoride	ND	2.0		mg/L	20	12/5/2011 4:50:00 PM
Chloride	59	10		mg/L	20	12/8/2011 6:43:13 PM
Bromide	ND	2.0		mg/L	20	12/5/2011 4:50:00 PM
Sulfate	4100	100		mg/L	200	12/8/2011 6:54:26 PM
SM2340B: HARDNESS						Analyst: **ELS**
Hardness (As CaCO3)	1500	1.0		mg/L	1	12/13/2011
EPA METHOD 7470: MERCURY						Analyst: **JLF**
Mercury	0.00025	0.00020		mg/L	1	11/30/2011 2:33:10 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **ELS**
Calcium	480	20		mg/L	20	11/28/2011 9:59:01 AM
Magnesium	79	1.0		mg/L	1	11/28/2011 9:25:14 AM
Potassium	4.8	1.0		mg/L	1	11/28/2011 9:25:14 AM
Sodium	1100	20		mg/L	20	11/29/2011 9:40:50 AM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **ELS**
Arsenic	ND	0.020		mg/L	1	11/28/2011 9:39:06 AM
Barium	0.33	0.020		mg/L	1	11/28/2011 9:39:06 AM
Cadmium	ND	0.0020		mg/L	1	11/28/2011 9:39:06 AM
Chromium	0.032	0.0060		mg/L	1	11/28/2011 9:39:06 AM
Lead	ND	0.0050		mg/L	1	11/28/2011 9:39:06 AM
Selenium	ND	0.050		mg/L	1	11/28/2011 9:39:06 AM
Silver	ND	0.0050		mg/L	1	11/28/2011 9:39:06 AM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **MMS**
Benzene	ND	1.0		µg/L	1	11/28/2011 10:47:00 PM
Toluene	ND	1.0		µg/L	1	11/28/2011 10:47:00 PM
Ethylbenzene	ND	1.0		µg/L	1	11/28/2011 10:47:00 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/28/2011 10:47:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-34
Lab Order:	1111901	**Collection Date:**	11/22/2011 12:12:00 PM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/23/2011
Lab ID:	1111901-06	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **MMS**
Toluene	ND	1.0		µg/L	1	11/28/2011 10:47:00 PM
Ethylbenzene	ND	1.0		µg/L	1	11/28/2011 10:47:00 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/28/2011 10:47:00 PM
Naphthalene	ND	2.0		µg/L	1	11/28/2011 10:47:00 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/28/2011 10:47:00 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/28/2011 10:47:00 PM
Xylenes, Total	ND	2.0		µg/L	1	11/28/2011 10:47:00 PM
Surr: 1,2-Dichloroethane-d4	78.0	70-130		%REC	1	11/28/2011 10:47:00 PM
Surr: 4-Bromofluorobenzene	85.4	73-131		%REC	1	11/28/2011 10:47:00 PM
Surr: Dibromofluoromethane	91.1	70-130		%REC	1	11/28/2011 10:47:00 PM
Surr: Toluene-d8	88.9	70-130		%REC	1	11/28/2011 10:47:00 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **IC**
Specific Conductance	5500	0.010		µmhos/cm	1	11/29/2011 3:20:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	5420	100		mg/L	1	11/30/2011 1:26:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Dec-11*

Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-21
Lab Order:	1111901	**Collection Date:**	11/22/2011 1:07:00 PM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/23/2011
Lab ID:	1111901-07	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/28/2011 6:16:46 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/28/2011 6:16:46 PM
Surr: DNOP	112	81.1-147		%REC	1	11/28/2011 6:16:46 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	0.11	0.050		mg/L	1	12/1/2011 2:25:39 AM
Surr: BFB	87.8	65.4-141		%REC	1	12/1/2011 2:25:39 AM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **MMS**
Benzene	ND	1.0		µg/L	1	11/29/2011 12:24:37 PM
Toluene	ND	1.0		µg/L	1	11/29/2011 12:24:37 PM
Ethylbenzene	ND	1.0		µg/L	1	11/29/2011 12:24:37 PM
Methyl tert-butyl ether (MTBE)	74	1.0		µg/L	1	11/29/2011 12:24:37 PM
Naphthalene	ND	2.0		µg/L	1	11/29/2011 12:24:37 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/29/2011 12:24:37 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/29/2011 12:24:37 PM
Xylenes, Total	ND	2.0		µg/L	1	11/29/2011 12:24:37 PM
Surr: 1,2-Dichloroethane-d4	76.4	70-130		%REC	1	11/29/2011 12:24:37 PM
Surr: 4-Bromofluorobenzene	91.6	73-131		%REC	1	11/29/2011 12:24:37 PM
Surr: Dibromofluoromethane	91.2	70-130		%REC	1	11/29/2011 12:24:37 PM
Surr: Toluene-d8	91.6	70-130		%REC	1	11/29/2011 12:24:37 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-47
Lab Order:	1111901	**Collection Date:**	11/22/2011 1:40:00 PM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/23/2011
Lab ID:	1111901-08	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/28/2011 6:51:24 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/28/2011 6:51:24 PM
Surr: DNOP	113	81.1-147		%REC	1	11/28/2011 6:51:24 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/1/2011 2:55:52 AM
Surr: BFB	86.0	65.4-141		%REC	1	12/1/2011 2:55:52 AM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Fluoride	ND	1.0		mg/L	10	12/2/2011 1:41:28 AM
Chloride	1800	100		mg/L	200	12/2/2011 1:52:42 AM
Bromide	1.2	1.0		mg/L	10	12/2/2011 1:41:28 AM
Sulfate	5800	100		mg/L	200	12/2/2011 1:52:42 AM
SM2340B: HARDNESS						Analyst: **ELS**
Hardness (As CaCO3)	2000	1.0		mg/L	1	12/13/2011
EPA METHOD 7470: MERCURY						Analyst: **JLF**
Mercury	ND	0.00020		mg/L	1	11/30/2011 2:34:56 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **ELS**
Calcium	510	10		mg/L	10	11/28/2011 10:01:05 AM
Magnesium	120	10		mg/L	10	11/28/2011 10:01:05 AM
Potassium	8.2	1.0		mg/L	1	11/28/2011 9:27:46 AM
Sodium	2700	50		mg/L	50	11/29/2011 9:42:56 AM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **ELS**
Arsenic	ND	0.020		mg/L	1	11/28/2011 9:41:29 AM
Barium	0.13	0.020		mg/L	1	11/28/2011 9:41:29 AM
Cadmium	ND	0.0020		mg/L	1	11/28/2011 9:41:29 AM
Chromium	ND	0.0060		mg/L	1	11/28/2011 9:41:29 AM
Lead	ND	0.0050		mg/L	1	11/28/2011 9:41:29 AM
Selenium	ND	0.050		mg/L	1	11/28/2011 9:41:29 AM
Silver	ND	0.0050		mg/L	1	11/28/2011 9:41:29 AM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **MMS**
Benzene	ND	1.0		µg/L	1	11/29/2011 1:47:53 PM
Toluene	ND	1.0		µg/L	1	11/29/2011 1:47:53 PM
Ethylbenzene	ND	1.0		µg/L	1	11/29/2011 1:47:53 PM
Methyl tert-butyl ether (MTBE)	1.5	1.0		µg/L	1	11/29/2011 1:47:53 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-47
Lab Order:	1111901	**Collection Date:**	11/22/2011 1:40:00 PM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/23/2011
Lab ID:	1111901-08	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **MMS**
Naphthalene	ND	2.0		µg/L	1	11/29/2011 1:47:53 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/29/2011 1:47:53 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/29/2011 1:47:53 PM
Xylenes, Total	ND	2.0		µg/L	1	11/29/2011 1:47:53 PM
Surr: 1,2-Dichloroethane-d4	83.1	70-130		%REC	1	11/29/2011 1:47:53 PM
Surr: 4-Bromofluorobenzene	90.6	73-131		%REC	1	11/29/2011 1:47:53 PM
Surr: Dibromofluoromethane	90.2	70-130		%REC	1	11/29/2011 1:47:53 PM
Surr: Toluene-d8	88.9	70-130		%REC	1	11/29/2011 1:47:53 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **IC**
Specific Conductance	19000	0.50		µmhos/cm	50	11/29/2011 6:55:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**
Total Dissolved Solids	10700	100		mg/L	1	11/30/2011 1:26:00 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level
E	Estimated value
J	Analyte detected below quantitation limits
NC	Non-Chlorinated
PQL	Practical Quantitation Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
MCL	Maximum Contaminant Level
ND	Not Detected at the Reporting Limit
S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	TW-46
Lab Order:	1111901	**Collection Date:**	11/22/2011 2:00:00 PM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/23/2011
Lab ID:	1111901-09	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/28/2011 7:25:48 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/28/2011 7:25:48 PM
Surr: DNOP	113	81.1-147		%REC	1	11/28/2011 7:25:48 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	0.054	0.050		mg/L	1	12/1/2011 3:26:03 AM
Surr: BFB	86.9	65.4-141		%REC	1	12/1/2011 3:26:03 AM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **MMS**
Benzene	ND	1.0		µg/L	1	11/29/2011 2:15:39 PM
Toluene	ND	1.0		µg/L	1	11/29/2011 2:15:39 PM
Ethylbenzene	ND	1.0		µg/L	1	11/29/2011 2:15:39 PM
Methyl tert-butyl ether (MTBE)	35	1.0		µg/L	1	11/29/2011 2:15:39 PM
Naphthalene	ND	2.0		µg/L	1	11/29/2011 2:15:39 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/29/2011 2:15:39 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/29/2011 2:15:39 PM
Xylenes, Total	ND	2.0		µg/L	1	11/29/2011 2:15:39 PM
Surr: 1,2-Dichloroethane-d4	76.5	70-130		%REC	1	11/29/2011 2:15:39 PM
Surr: 4-Bromofluorobenzene	85.4	73-131		%REC	1	11/29/2011 2:15:39 PM
Surr: Dibromofluoromethane	83.7	70-130		%REC	1	11/29/2011 2:15:39 PM
Surr: Toluene-d8	91.2	70-130		%REC	1	11/29/2011 2:15:39 PM

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- E Estimated value
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- MCL Maximum Contaminant Level
- NC Non-Chlorinated
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitation Limit
- S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: *14-Dec-11*
Analytical Report

CLIENT:	Animas Environmental Services	**Client Sample ID:**	MW-20
Lab Order:	1111901	**Collection Date:**	11/22/2011 2:17:00 PM
Project:	Former Thirftway Refinery #810	**Date Received:**	11/23/2011
Lab ID:	1111901-10	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: **JB**
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/28/2011 7:59:55 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/28/2011 7:59:55 PM
Surr: DNOP	113	81.1-147		%REC	1	11/28/2011 7:59:55 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	0.97	0.050		mg/L	1	12/1/2011 3:56:16 AM
Surr: BFB	135	65.4-141		%REC	1	12/1/2011 3:56:16 AM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: **MMS**
Benzene	ND	1.0		µg/L	1	11/29/2011 2:43:33 PM
Toluene	ND	1.0		µg/L	1	11/29/2011 2:43:33 PM
Ethylbenzene	ND	1.0		µg/L	1	11/29/2011 2:43:33 PM
Methyl tert-butyl ether (MTBE)	170	1.0		µg/L	1	11/29/2011 2:43:33 PM
Naphthalene	ND	2.0		µg/L	1	11/29/2011 2:43:33 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/29/2011 2:43:33 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/29/2011 2:43:33 PM
Xylenes, Total	ND	2.0		µg/L	1	11/29/2011 2:43:33 PM
Surr: 1,2-Dichloroethane-d4	82.4	70-130		%REC	1	11/29/2011 2:43:33 PM
Surr: 4-Bromofluorobenzene	78.4	73-131		%REC	1	11/29/2011 2:43:33 PM
Surr: Dibromofluoromethane	108	70-130		%REC	1	11/29/2011 2:43:33 PM
Surr: Toluene-d8	92.6	70-130		%REC	1	11/29/2011 2:43:33 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: Former Thirftway Refinery #810 **Work Order:** 1111901

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB		*MBLK*				Batch ID:	**R49262**	Analysis Date:	11/23/2011 2:41:45 PM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R49262**	Analysis Date:	11/24/2011 2:40:30 AM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R49383**	Analysis Date:	12/1/2011 6:34:42 PM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R49421**	Analysis Date:	12/5/2011 2:58:14 PM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R49502**	Analysis Date:	12/8/2011 1:17:32 PM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		*MBLK*				Batch ID:	**R49502**	Analysis Date:	12/9/2011 1:27:30 AM		
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Sulfate	ND	mg/L	0.50								
Sample ID: LCS		*LCS*				Batch ID:	**R49262**	Analysis Date:	11/23/2011 2:52:59 PM		
Fluoride	0.5048	mg/L	0.10	0.5	0	101	90	110			
Chloride	4.914	mg/L	0.50	5	0.113	96.0	90	110			
Bromide	2.256	mg/L	0.10	2.5	0	90.2	90	110			
Sulfate	9.939	mg/L	0.50	10	0	99.4	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R49262**	Analysis Date:	11/24/2011 2:51:44 AM		
Fluoride	0.5012	mg/L	0.10	0.5	0	100	90	110			
Chloride	4.731	mg/L	0.50	5	0	94.6	90	110			
Sulfate	9.513	mg/L	0.50	10	0	95.1	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R49383**	Analysis Date:	12/1/2011 6:45:55 PM		
Fluoride	0.5204	mg/L	0.10	0.5	0	104	90	110			
Chloride	5.030	mg/L	0.50	5	0	101	90	110			
Bromide	2.382	mg/L	0.10	2.5	0	95.3	90	110			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: Former Thirftway Refinery #810 **Work Order:** 1111901

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: LCS		*LCS*				Batch ID:	**R49383**	Analysis Date:		12/1/2011 6:45:55 PM	
Sulfate	10.07	mg/L	0.50	10	0	101	90	110			
Sample ID: LCS-b		*LCS*				Batch ID:	**R49421**	Analysis Date:		12/5/2011 3:47:54 PM	
Fluoride	0.4867	mg/L	0.10	0.5	0	97.3	90	110			
Chloride	4.659	mg/L	0.50	5	0	93.2	90	110			
Bromide	2.419	mg/L	0.10	2.5	0	96.8	90	110			
Sulfate	9.382	mg/L	0.50	10	0	93.8	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R49502**	Analysis Date:		12/8/2011 1:28:45 PM	
Fluoride	0.5026	mg/L	0.10	0.5	0	101	90	110			
Chloride	4.862	mg/L	0.50	5	0	97.2	90	110			
Bromide	2.334	mg/L	0.10	2.5	0	93.4	90	110			
Sulfate	9.753	mg/L	0.50	10	0	97.5	90	110			
Sample ID: LCS		*LCS*				Batch ID:	**R49502**	Analysis Date:		12/9/2011 1:38:44 AM	
Fluoride	0.5290	mg/L	0.10	0.5	0	106	90	110			
Chloride	4.802	mg/L	0.50	5	0	96.0	90	110			
Bromide	2.328	mg/L	0.10	2.5	0	93.1	90	110			
Sulfate	9.690	mg/L	0.50	10	0	96.9	90	110			
Method: EPA Method 8015B: Diesel Range											
Sample ID: MB-29514		*MBLK*				Batch ID:	**29514**	Analysis Date:		11/28/2011 10:49:32 AM	
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-29514		*LCS*				Batch ID:	**29514**	Analysis Date:		11/28/2011 11:23:52 AM	
Diesel Range Organics (DRO)	5.330	mg/L	1.0	5	0	107	74	157			
Sample ID: LCSD-29514		*LCSD*				Batch ID:	**29514**	Analysis Date:		11/28/2011 11:58:32 AM	
Diesel Range Organics (DRO)	5.697	mg/L	1.0	5	0	114	74	157	6.66	23	
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML-RB		*MBLK*				Batch ID:	**R49350**	Analysis Date:		11/30/2011 12:49:57 PM	
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		*LCS*				Batch ID:	**R49350**	Analysis Date:		11/30/2011 11:49:42 AM	
Gasoline Range Organics (GRO)	0.5116	mg/L	0.050	0.5	0	102	92.1	117			
Sample ID: 2.5UG GRO LCSD		*LCSD*				Batch ID:	**R49350**	Analysis Date:		11/30/2011 9:23:27 PM	
Gasoline Range Organics (GRO)	0.5246	mg/L	0.050	0.5	0	105	92.1	117	2.51	16.1	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: Former Thirftway Refinery #810 **Work Order:** 1111901

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260: Volatiles Short List											
Sample ID: 1111901-02a msd		*MSD*				Batch ID:	**R49287**	Analysis Date:		11/28/2011 1:57:27 PM	
Benzene	18.29	µg/L	1.0	20	0	91.5	69.2	127	16.9	18.7	
Toluene	17.76	µg/L	1.0	20	0.388	86.9	68.2	130	3.56	16.9	
Sample ID: 1111901-07a msd		*MSD*				Batch ID:	**R49331**	Analysis Date:		11/29/2011 1:20:09 PM	
Benzene	20.56	µg/L	1.0	20	0	103	69.2	127	4.23	18.7	
Toluene	18.05	µg/L	1.0	20	0.358	88.5	68.2	130	6.24	16.9	
Sample ID: 5ml rb		*MBLK*				Batch ID:	**R49287**	Analysis Date:		11/28/2011 9:31:41 AM	
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 5ml rb		*MBLK*				Batch ID:	**R49331**	Analysis Date:		11/29/2011 10:33:13 AM	
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100ng lcs		*LCS*				Batch ID:	**R49287**	Analysis Date:		11/28/2011 10:27:28 AM	
Benzene	21.79	µg/L	1.0	20	0	109	81.1	130			
Toluene	20.49	µg/L	1.0	20	0	102	82.3	122			
Sample ID: 100ng lcs		*LCS*				Batch ID:	**R49331**	Analysis Date:		11/29/2011 11:28:57 AM	
Benzene	22.20	µg/L	1.0	20	0	111	81.1	130			
Toluene	18.61	µg/L	1.0	20	0	93.0	82.3	122			
Sample ID: 1111901-02a ms		*MS*				Batch ID:	**R49287**	Analysis Date:		11/28/2011 1:29:41 PM	
Benzene	21.67	µg/L	1.0	20	0	108	69.2	127			
Toluene	18.41	µg/L	1.0	20	0.388	90.1	68.2	130			
Sample ID: 1111901-07a ms		*MS*				Batch ID:	**R49331**	Analysis Date:		11/29/2011 12:52:23 PM	
Benzene	19.71	µg/L	1.0	20	0	98.6	69.2	127			
Toluene	19.21	µg/L	1.0	20	0.358	94.3	68.2	130			
Method: EPA Method 7470: Mercury											
Sample ID: MB-29547		*MBLK*				Batch ID:	**29547**	Analysis Date:		11/30/2011 2:22:18 PM	
Mercury	ND	mg/L	0.00020								
Sample ID: LCS-29547		*LCS*				Batch ID:	**29547**	Analysis Date:		11/30/2011 2:24:16 PM	
Mercury	0.005222	mg/L	0.00020	0.005	0	104	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
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ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: Former Thirftway Refinery #810 **Work Order:** 1111901

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: **EPA Method 6010B: Dissolved Metals**											
Sample ID: **MB**		*MBLK*				**Batch ID:**	**R49259**	**Analysis Date:**	11/28/2011 8:51:31 AM		
Calcium	ND	mg/L	1.0								
Magnesium	ND	mg/L	1.0								
Potassium	ND	mg/L	1.0								
Sodium	ND	mg/L	1.0								
Sample ID: **MB**		*MBLK*				**Batch ID:**	**R49290**	**Analysis Date:**	11/29/2011 9:22:53 AM		
Calcium	ND	mg/L	1.0								
Magnesium	ND	mg/L	1.0								
Potassium	ND	mg/L	1.0								
Sodium	ND	mg/L	1.0								
Sample ID: **MB**		*MBLK*				**Batch ID:**	**R49559**	**Analysis Date:**	12/13/2011 7:44:20 AM		
Aluminum	ND	mg/L	0.020								
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Beryllium	ND	mg/L	0.0030								
Cadmium	ND	mg/L	0.0020								
Calcium	ND	mg/L	1.0								
Chromium	ND	mg/L	0.0060								
Copper	ND	mg/L	0.0060								
Iron	ND	mg/L	0.020								
Lead	ND	mg/L	0.0050								
Magnesium	ND	mg/L	1.0								
Manganese	ND	mg/L	0.0020								
Molybdenum	ND	mg/L	0.0080								
Nickel	ND	mg/L	0.010								
Potassium	ND	mg/L	1.0								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sodium	ND	mg/L	1.0								
Strontium	ND	mg/L	0.0060								
Thallium	ND	mg/L	0.050								
Tin	ND	mg/L	0.020								
Titanium	ND	mg/L	0.0050								
Uranium	ND	mg/L	0.10								
Vanadium	ND	mg/L	0.050								
Zinc	ND	mg/L	0.020								
Sample ID: **LCS**		*LCS*				**Batch ID:**	**R49259**	**Analysis Date:**	11/28/2011 8:53:25 AM		
Calcium	53.26	mg/L	1.0	50	0	107	80	120			
Magnesium	53.22	mg/L	1.0	50	0	106	80	120			
Potassium	51.25	mg/L	1.0	50	0	102	80	120			
Sodium	52.25	mg/L	1.0	50	0	105	80	120			
Sample ID: **LCS**		*LCS*				**Batch ID:**	**R49290**	**Analysis Date:**	11/29/2011 9:24:48 AM		
Calcium	52.57	mg/L	1.0	50	0.0484	105	80	120			
Magnesium	52.77	mg/L	1.0	50	0.0484	105	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: Former Thirftway Refinery #810 **Work Order:** 1111901

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 6010B: Dissolved Metals											
Sample ID: LCS		LCS				Batch ID:	R49290	Analysis Date:	11/29/2011 9:24:48 AM		
Potassium	51.15	mg/L	1.0	50	0	102	80	120			
Sodium	51.89	mg/L	1.0	50	0	104	80	120			
Sample ID: LCS		LCS				Batch ID:	R49559	Analysis Date:	12/13/2011 7:46:13 AM		
Aluminum	0.5832	mg/L	0.020	0.5	0.0054	116	80	120			
Arsenic	0.5489	mg/L	0.020	0.5	0	110	80	120			
Barium	0.5213	mg/L	0.020	0.5	0.0005	104	80	120			
Beryllium	0.5389	mg/L	0.0030	0.5	0.0002	108	80	120			
Cadmium	0.5351	mg/L	0.0020	0.5	0	107	80	120			
Calcium	54.09	mg/L	1.0	50	0.0541	108	80	120			
Chromium	0.5203	mg/L	0.0060	0.5	0	104	80	120			
Copper	0.5259	mg/L	0.0060	0.5	0	105	80	120			
Iron	0.5240	mg/L	0.020	0.5	0.0054	104	80	120			
Lead	0.5265	mg/L	0.0050	0.5	0	105	80	120			
Magnesium	54.55	mg/L	1.0	50	0.0543	109	80	120			
Manganese	0.5081	mg/L	0.0020	0.5	0.0001	102	80	120			
Molybdenum	0.5448	mg/L	0.0080	0.5	0	109	80	120			
Nickel	0.4989	mg/L	0.010	0.5	0	99.8	80	120			
Potassium	53.06	mg/L	1.0	50	0.1625	106	80	120			
Selenium	0.5326	mg/L	0.050	0.5	0	107	80	120			
Silver	0.1031	mg/L	0.0050	0.1	0	103	80	120			
Sodium	53.39	mg/L	1.0	50	0.0929	107	80	120			
Strontium	0.1010	mg/L	0.0060	0.1	0	101	80	120			
Thallium	0.5260	mg/L	0.050	0.5	0	105	80	120			
Tin	0.5373	mg/L	0.020	0.5	0	107	80	120			
Titanium	0.5395	mg/L	0.0050	0.5	0.0002	108	80	120			
Uranium	0.5019	mg/L	0.10	0.5	0	100	80	120			
Vanadium	0.5424	mg/L	0.050	0.5	0.0009	108	80	120			
Zinc	0.5220	mg/L	0.020	0.5	0	104	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: Former Thirftway Refinery #810 **Work Order:** 1111901

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA 6010B: Total Recoverable Metals											
Sample ID: 1111901-05EMSD		*MSD*				Batch ID:	**29508**	Analysis Date:		11/28/2011 9:36:44 AM	
Arsenic	0.5977	mg/L	0.020	0.5	0.0362	112	75	125	0.0338	20	
Barium	0.5383	mg/L	0.020	0.5	0.0277	102	75	125	0.844	20	
Cadmium	0.5183	mg/L	0.0020	0.5	0	104	75	125	1.34	20	
Chromium	0.4955	mg/L	0.0060	0.5	0	99.1	75	125	1.08	20	
Lead	0.4939	mg/L	0.0050	0.5	0	98.8	75	125	0.732	20	
Selenium	0.4988	mg/L	0.050	0.5	0	99.8	75	125	0.211	20	
Silver	0.1042	mg/L	0.0050	0.1	0	104	75	125	2.09	20	
Sample ID: MB-29508		*MBLK*				Batch ID:	**29508**	Analysis Date:		11/28/2011 8:47:28 AM	
Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Selenium	ND	mg/L	0.050								
Silver	ND	mg/L	0.0050								
Sample ID: LCS-29508		*LCS*				Batch ID:	**29508**	Analysis Date:		11/28/2011 8:49:26 AM	
Arsenic	0.5218	mg/L	0.020	0.5	0	104	80	120			
Barium	0.5035	mg/L	0.020	0.5	0	101	80	120			
Cadmium	0.5015	mg/L	0.0020	0.5	0	100	80	120			
Chromium	0.5030	mg/L	0.0060	0.5	0	101	80	120			
Lead	0.4995	mg/L	0.0050	0.5	0	99.9	80	120			
Selenium	0.5135	mg/L	0.050	0.5	0	103	80	120			
Silver	0.09993	mg/L	0.0050	0.1	0	99.9	80	120			
Sample ID: 1111901-05EMS		*MS*				Batch ID:	**29508**	Analysis Date:		11/28/2011 9:34:20 AM	
Arsenic	0.5975	mg/L	0.020	0.5	0.0362	112	75	125			
Barium	0.5429	mg/L	0.020	0.5	0.0277	103	75	125			
Cadmium	0.5253	mg/L	0.0020	0.5	0	105	75	125			
Chromium	0.5009	mg/L	0.0060	0.5	0	100	75	125			
Lead	0.4976	mg/L	0.0050	0.5	0	99.5	75	125			
Selenium	0.4999	mg/L	0.050	0.5	0	100	75	125			
Silver	0.1064	mg/L	0.0050	0.1	0	106	75	125			
Method: SM2540C MOD: Total Dissolved Solids											
Sample ID: 1111901-08GMSD		*MSD*				Batch ID:	**29528**	Analysis Date:		11/30/2011 1:26:00 PM	
Total Dissolved Solids	15970	mg/L	100	5000	10710	105	80	120	0.157	5	
Sample ID: MB-29528		*MBLK*				Batch ID:	**29528**	Analysis Date:		11/30/2011 1:26:00 PM	
Total Dissolved Solids	ND	mg/L	20.0								
Sample ID: LCS-29528		*LCS*				Batch ID:	**29528**	Analysis Date:		11/30/2011 1:26:00 PM	
Total Dissolved Solids	1035	mg/L	20.0	1000	16	102	80	120			
Sample ID: 1111901-08GMS		*MS*				Batch ID:	**29528**	Analysis Date:		11/30/2011 1:26:00 PM	
Total Dissolved Solids	15950	mg/L	100	5000	10710	105	80	120			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL | Date Received: 11/23/2011

Work Order Number 1111901 | Received by: AMG

Checklist completed by: Signature 11/23/11 Date | Sample ID labels checked by: dam Initials

Matrix: | Carrier name: Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐		
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐	Not Shipped ☐	
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☑		
Chain of custody present?	Yes ☑	No ☐			
Chain of custody signed when relinquished and received?	Yes ☑	No ☐			
Chain of custody agrees with sample labels?	Yes ☑	No ☐			
Samples in proper container/bottle?	Yes ☑	No ☐			
Sample containers intact?	Yes ☑	No ☐			
Sufficient sample volume for indicated test?	Yes ☑	No ☐			
All samples received within holding time?	Yes ☑	No ☐			
Water - VOA vials have zero headspace? No VOA vials submitted ☐		Yes ☑	No ☐		
Water - Preservation labels on bottle and cap match?	Yes ☑	No ☐	N/A ☐		
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐		
Container/Temp Blank temperature?	1.6°	<6° C *Acceptable* If given sufficient time to cool.			

Number of preserved bottles checked for pH: (<2) >12 *unless noted below.*

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E Comanche
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name:
Former Thriftway Refinery #810

Project #:
AES 050204

Project Manager:
Ross Kennemer

Sampler: Chad Dawson

On Ice: ☑ Yes ☐ No

Sample Temperature: 1.0 °C

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1111010	8015 TPH GRO and DRO	8260 VOCs see below	8270 SVOC see below	RCRA 8 Metals	Dissolved Metals(Ca, Mg, K, Na)6010	300.0 Bromide, Fluoride, Sulfate	Hardness CaCO3 6010	TDS 2540C	Specific Conductance EPA 120.1	Air Bubbles (Y or N)
11-22-11	0855	H_2O	TW-43	5-40 mL 1-Liter Amber	3-HCl/1-non	-1	X	X	X							
	0920		TW-42	6-40 mL 1 Liter Amber	5 HCl/1 non	-2	X	X	X							
	0955		TW-41	6-40 mL 1 Liter Amber, 1-500 mL Amber, 1-125 mL 1-Liter Amber	5 HCl/1 non, HNO3	-3	X	X	X	X	X	X	X	X	X	
	1020		TW-37	6-40 mL 1-Liter Amber	5-HCl/1 non	-4	X	X	X							
	1130		TW-35	6-40 mL, 1-500 mL, 1-125 mL 1-Liter Amber	5HCl /1non, 2HNO3, 2-non	-5	X	X	X	X	X	X	X	X	X	
	1212		TW-34	6-40 mL, 1-500 mL, 1-125 mL, 1L pl. 1L Amb	5 HCl 2 HNO3 3 non	-6	X	X	X	X	X	X	X	X	X	
	807		MW-21	6-40 mL 1-Liter amber	5 HCl/1non	-7	X	X	X							
	1340		TW-47	6-40 mL, 1-500 mL, 1-125 mL 1L pl. 1L Amb	5 HCl 2 HNO3 3 non	-8	X	X	X	X	X	X	X	X	X	
	1400		TW-46	6-40 mL 1-Liter amber	5HCl/1non non	-9	X	X	X							
	1417		MW-20	6-40 mL 1 Liter amber	5HCl/1non non	-10	X	X	X							

Date:	Time:	Relinquished by:	Received by:	Date	Time
11-22-11	1450	Chad Dawson	Christine Walsh	11/22/11	1450
11/22/11	1722	Christine Walsh		11/23/11	0:12

Remarks: Run TPH 8015 prior to analyzing for 8260 and 8270. Run the full VOC spectrum only in the event the reported TPH-GRO is greater than 80 mg/L, if GRO is less than 80 mg/L run BTEX/total napthalenes and MTBE. SVOCs per EPA Method 8270D will be run if TPH-DRO value is greater than 200 mg/L. Direct Bill to BioTech. Per Andy 8015 GRO-DRO $60, discounted price for TDS. Add Cl. 4

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Chad Dawson

Project No.: AES 050204
Date: 11-15-11 / 11-16-11
Time: 0900-1630 / 1000-1430
Form: 1 of 4

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
TW-1	0943		31.11		11-15-11
TW-2	0946		29.33		
TW-3	0951		28.67		
TW-4	0956		19.50		
TW-5	1021		25.93		
TW-6	1024		25.11		
TW-7	1029		22.59		
TW-8	1000		20.03		
TW-9	1003		12.54		
TW-10	1009		12.73		
TW-11	1151		18.44		
TW-12	1144		22.74		
TW-13	1218	20.90	22.04	1.14	
TW-14	1148	17.34	17.99	0.65	
TW-15	1201		13.42		
TW-16	1015		11.67		11-15-11
TW-17	1204		10.29		
TW-18	1157		16.60		
TW-19	1237	17.90	18.60		
TW-20	1230	17.64	19.60	1.96	
~~TW-21~~					Damaged
TW-22	1250	15.10	15.62	0.52	
TW-23	1209		9.05		
TW-24	1300	11.26	11.37	0.11	
TW-25	1255	14.50	15.12	0.82	
TW-26	1428	15.98	16.94	1.54	
TW-~~28~~ 29	1303	9.46	10.16	0.70	
TW-~~29~~ 28	1422	15.40	16.94	1.54	
TW-30	1311		6.25		
TW-31	1313		7.19		
TW-32	1335	9.58	11.01	1.63	
TW-33	1417	13.13	13.42	0.29	
TW-34	~~1428~~		20.14		11-15-11

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Chad Dawson

Project No.: AES 050204
Date:
Time:
Form: 2 of 4

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
TW-35	0938		15.35		11-15-11
TW-36	0954	13.36	13.55	0.19	11-15-11
TW-37	1346		10.83		
TW-38	1340	11.68	11.83	0.15	
TW-39	1316		7.98		
TW-40	1323	8.01	8.51	0.50	
TW-41	1351		6.27		
TW-42	1400		6.43		
TW-43	1404		12.47		
TW-44	1412	15.32	16.06	0.74	
TW-45	0925		7.23		11-15-11
TW-46	0923		7.67		"
TW-47	0920		6.79		"
TW-48	1508		7.39		
TW-49	0910		6.14		11-15-11
TW-50	1319		8.08		
MW-5	1356		5.64		
MW-7	1329		9.86		
MW-20	0928		6.22		11-15-11
MW-21	0916		3.64		11-15-11

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Chad Dawson

Project No.: AES 050204
Date: 11-10-11 & 11-15-11
Time: 1030 - 1530 & 0900 - 1602
Form: 3 of 4

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MPE-1			24.04		
MPE-2		21.94	22.03	0.09	
MPE-3			21.23		
MPE-4			20.43		
MPE-5		19.74	19.92	0.18	
MPE-6		20.09	20.10	0.01	
MPE-7			20.89		
MPE-8			22.19		
MPE-9			23.97		
MPE-10			23.67		
MPE-11			21.66		
MPE-12			22.85		
MPE-13		23.11	23.18	0.07	
MPE-14		22.20	22.34	0.14	
MPE-16			20.35		
MPE-17			20.54		
MPE-18			19.67		
MPE-19			19.47		
MPE-20			19.17		
MPE-21			20.41		
MPE-22			21.28		
MPE-23			20.25		
MPE-24			23.12		
MPE-25			23.54		
MPE-26		23.17	24.14	0.97	
MPE-27			21.53		
MPE-28			21.95		
MPE-29			20.93		
MPE-30			21.68		
MPE-31			22.87		
MPE-33			22.78		
MPE-34			22.67		
MPE-35		21.07	21.70	0.63	
MPE-36		20.26	20.66	0.40	

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Project: Groundwater Monitoring
Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Tech: Chad Dawson

Project No.: AES 050204
Date: 11-10-11 & 11-15-11
Time: 1050-1530 & 0900-1600
Form: 4 of 4

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MPE-37		20.68	20.70	0.02	
MPE-38		20.20	20.28	0.08	
MPE-39			17.83		
MPE-40	11/15		18.06		
MPE-41			18.74		
MPE-42			19.46		
MPE-43			20.27		
MPE-44		20.37	21.49	1.12	
MPE-45		20.66	21.23	0.57	
MPE-46			21.53		
MPE-47		21.00	21.82	0.82	
MPE-48			20.24		
MPE-49			19.59		
MPE-50		20.65	21.02	0.37	
MPE-51			21.21		
MPE-52		20.92	21.34	0.42	
MPE-53		19.65	20.75	1.10	
MPE-54		19.47	20.03	0.56	
MPE-55			18.91		
MPE-56			14.30		
MPE-57			15.00		
MPE-58			15.52		

Wells measured with KECK water level or KECK interface tape, decontaminated between each well measurement.

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-7	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site:	Thriftway #810 Refinery	Project No.:	AES 050204
Location:	Bloomfield, New Mexico	Date:	11-17-11
Project:	Groundwater Monitoring and Sampling	Arrival Time:	0800
Sampling Technician:	Chad Dawson	Air Temp:	35°
Purge / No Purge:	Purge	T.O.C. Elev. (ft):	5461.17
Well Diameter (in):	2	Total Well Depth (ft):	28.08
Initial D.T.W. (ft):	22.59	Time:	11-15-11 (taken at initial gauging of all wells)
Confirm D.T.W. (ft):	22.60	Time:	0803 (taken prior to purging well)
Final D.T.W. (ft):		Time:	(taken after sample collection)
If NAPL Present:	D.T.P.:	D.T.W.:	Thickness: Time:

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
0840	11.31	3.321	1.66	7.25	-25.1	1.00	
910						SC	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (3-40 mL Vials 2 w/ HCl preserve, 1 w/o perserve)
RCRA 8 Metals per EPA Methods 6010/7470 (500 mL w/ HNO3 preserve)
Dissolved Metals per EPA Methods 6010 (125 mL w/ HNO3l preserve)
Bromide/Chloride/Fluoride/Sulfate per EPA Method 300.0, TDS per 2540C, Hardness per 6010, Specific Cond. per 120.1 (1-500 mL plastic w/o preserve), SVOCs per EPA Methods 8270 (1 L Amber w/o preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-11

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: CW
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 18.44 **Time:** 1151 11-16-11 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 18.43 **Time:** 0926 *(taken prior to purging well)*
Final D.T.W. (ft): **Time:** *(taken after sample collection)*
If NAPL Present: **D.T.P.:** **D.T.W.:** **Thickness:** **Time:**

Project No.: AES 050204
Date: 11-17-11
Arrival Time: 0923
Air Temp: 37°
T.O.C. Elev. (ft): 5456.31
Total Well Depth (ft): 26.44

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
0935	13.92	5.239	2.92	7.36	-31.4	1.00	
0938						SC	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3 - 40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Method 8015 (3 - 40 mL Vials; 2 w/ HCl preserve, 1 w/o perserve)
SVOCs per EPA Method 8270 (1 L Amber; w/o preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-18

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: CD
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 16.06 **Time:** 1157 11-16-11 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 16.66 **Time:** 0954 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: D.T.P.:_____ D.T.W.:_____ **Thickness:**_____ **Time:**_____

Project No.: AES 050204
Date: 11-17-11
Arrival Time: 0949
Air Temp: 44°
T.O.C. Elev. (ft): 5452.73
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1003	15.59	4.639	0.64	7.25	-251	1.00	
1013						SC	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (3-40 mL Vials 2 w/ HCl preserve, 1 w/o perserve)
RCRA 8 Metals per EPA Methods 6010/7470 (500 mL w/ HNO3 preserve)
Dissolved Metals per EPA Methods 6010 (125 mL w/ HNO3l preserve)
Bromide/Chloride/Fluoride/Sulfate per EPA Method 300.0, TDS per 2540C, Hardness per 6010, Specific Cond. per 120.1 (1-500 mL plastic w/o preserve), SVOCs per EPA Methods 8270 (1 L Amber w/o preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-30

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: CD
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 6.25 **Time:** 1311 11-15-11 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 6.25 **Time:** 1036 *(taken prior to purging well)*
Final D.T.W. (ft): **Time:** *(taken after sample collection)*
If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Project No.: AES 050204
Date: 11-17-11
Arrival Time: 1033
Air Temp: 48°
T.O.C. Elev. (ft): 5437.93
Total Well Depth (ft): 17.14

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1052	12.97	6.482	0.54	7.21	-23.1	1.00	
1102						SC	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (3-40 mL Vials 2 w/ HCl preserve, 1 w/o perserve)
RCRA 8 Metals per EPA Methods 6010/7470 (500 mL w/ HNO3 preserve)
Dissolved Metals per EPA Methods 6010 (125 mL w/ HNO3l preserve)
Bromide/Chloride/Fluoride/Sulfate per EPA Method 300.0, TDS per 2540C, Hardness per 6010, Specific Cond. per 120.1 (1-500 mL plastic w/o preserve), SVOCs per EPA Methods 8270 (1 L Amber w/o preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: **TW-31**	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery **Project No.:** AES 050204
Location: Bloomfield, New Mexico **Date:** 11-17-11
Project: Groundwater Monitoring and Sampling **Arrival Time:** 1118
Sampling Technician: CD **Air Temp:** 58
Purge / No Purge: Purge **T.O.C. Elev. (ft):** 5438.54
Well Diameter (in): 2 **Total Well Depth (ft):** 12.96
Initial D.T.W. (ft): 7.18 **Time:** 1313 11-16-11 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 7.17 **Time:** 1121 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1135	14.67	5.432	1.94	7.24	-24.7	1.00	
1140						SC	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3 - 40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Method 8015 (3 - 40 mL Vials; 2 w/ HCl preserve, 1 w/o perserve)
SVOCs per EPA Method 8270 (1 L Amber; w/o preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: TW-34	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery — Project No.: AES 050204
Location: Bloomfield, New Mexico — Date: 11-22-11
Project: Groundwater Monitoring and Sampling — Arrival Time: 1142
Sampling Technician: CO — Air Temp: 37°
Purge / No Purge: Purge — T.O.C. Elev. (ft): 5455.8
Well Diameter (in): 2 — Total Well Depth (ft): 26.78
Initial D.T.W. (ft): 20.19 Time: 0942 11-15-11 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 20.15 Time: 1145 *(taken prior to purging well)*
Final D.T.W. (ft): Time: *(taken after sample collection)*
If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1200	14.58	6.078	2.31	7.25	-25.4	1.00	
1212						SC	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (3-40 mL Vials 2 w/ HCl preserve, 1 w/o perserve)
RCRA 8 Metals per EPA Methods 6010/7470 (500 mL w/ HNO3 preserve)
Dissolved Metals per EPA Methods 6010 (125 mL w/ HNO3l preserve)
Bromide/Chloride/Fluoride/Sulfate per EPA Method 300.0, TDS per 2540C, Hardness per 6010, Specific Cond. per 120.1 (1-500 mL plastic w/o preserve), SVOCs per EPA Methods 8270 (1 L Amber w/o preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: **TW-35**

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: CD
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 15.35 Time: 0938 11-15-11 (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 15.37 Time: 1110 (taken prior to purging well)
Final D.T.W. (ft): Time: (taken after sample collection)
If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Project No.: AES 050204
Date: 11-27-11
Arrival Time: 1105
Air Temp: 36°
T.O.C. Elev. (ft): 5449.14
Total Well Depth (ft): 22.34

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1122	15.24	6.901	1.21	7.38	-32.9	1.00	
1130						3c	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (3-40 mL Vials 2 w/ HCl preserve, 1 w/o perserve)
RCRA 8 Metals per EPA Methods 6010/7470 (500 mL w/ HNO3 preserve)
Dissolved Metals per EPA Methods 6010 (125 mL w/ HNO3l preserve)
Bromide/Chloride/Fluoride/Sulfate per EPA Method 300.0, TDS per 2540C, Hardness per 6010, Specific Cond. per 120.1 (1-500 mL plastic w/o preserve), SVOCs per EPA Methods 8270 (1 L Amber w/o preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-37

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: CD
Purge / No Purge: Purge
Well Diameter (in): 2

Project No.: AES 050204
Date: 11-22-11
Arrival Time: 1005
Air Temp: 32°
T.O.C. Elev. (ft): 5439.59
Total Well Depth (ft): 16.5

Initial D.T.W. (ft): 10.83 **Time:** 1346 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 10.85 **Time:** 1010 *(taken prior to purging well)*
Final D.T.W. (ft): _ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1016	15.31	4.513	1.43	7.26	-25.8	1.00	
1020	—	—	—	—	—	SC	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3 - 40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Method 8015 (3 - 40 mL Vials; 2 w/ HCl preserve, 1 w/o perserve)
SVOCs per EPA Method 8270 (1 L Amber; w/o preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-38

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: CD
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): ____ **Time:** ____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): ____ **Time:** ____ *(taken prior to purging well)*
Final D.T.W. (ft): ____ **Time:** ____ *(taken after sample collection)*
If NAPL Present: D.T.P.: 11.68 D.T.W.: 11.83 Thickness: 0.15 Time: 1340

Project No.: AES 050204
Date: 11-16-11
Arrival Time: 1307
Air Temp: ____
T.O.C. Elev. (ft): 5442.11
Total Well Depth (ft): 15.5

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations

No Sample Present NAPL

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (3-40 mL Vials 2 w/ HCl preserve, 1 w/o perserve)
RCRA 8 Metals per EPA Methods 6010/7470 (500 mL w/ HNO3 preserve)
Dissolved Metals per EPA Methods 6010 (125 mL w/ HNO3l preserve)
Bromide/Chloride/Fluoride/Sulfate per EPA Method 300.0, TDS per 2540C, Hardness per 6010, Specific Cond. per 120.1 (1-500 mL plastic w/o preserve), SVOCs per EPA Methods 8270 (1 L Amber w/o preserve)

Disposal of Purged Water: ____
Collected Samples Stored on Ice in Cooler: ____
Chain of Custody Record Complete: ____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-39

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: CD
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 7.98 **Time:** 1516 11-16-11 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 7.99 **Time:** 1325 *(taken prior to purging well)*
Final D.T.W. (ft): **Time:** *(taken after sample collection)*
If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Project No.: AES 050204
Date: 11-17-11
Arrival Time: 1320
Air Temp: 58°
T.O.C. Elev. (ft): 5438.43
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1338	14.26	4.189	0.63	7.18	-21.5	1.00	
1342	—	—	—	—	—	SC	—

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX/ MTBE/ Naph. per EPA Method 8260 (3-40 mL Vials; 3 w/ HCl preserve)
GRO and DRO per EPA Method 8015 (3-40 mL Vials; 3 w/ HCl preserve, 1 w/o perserve)
SVOCs per EPA Method 8270 (1 L Amber; w/o preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-41

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: CD
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 6.27 **Time:** 1351 11-16-11 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 6.27 **Time:** 0932 *(taken prior to purging well)*
Final D.T.W. (ft): **Time:** *(taken after sample collection)*
If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Project No.: AES 050204
Date: 11-22-11
Arrival Time: 0929
Air Temp: 31°
T.O.C. Elev. (ft): 5434.77
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
0941	12.23	3.813	0.59	7.19	-21.6	1.0 C	Strong odor
0955	—					5 C	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (3-40 mL Vials 2 w/ HCl preserve, 1 w/o perserve)
RCRA 8 Metals per EPA Methods 6010/7470 (500 mL w/ HNO3 preserve)
Dissolved Metals per EPA Methods 6010 (125 mL w/ HNO3l preserve)
Bromide/Chloride/Fluoride/Sulfate per EPA Method 300.0, TDS per 2540C, Hardness per 6010, Specific Cond. per 120.1 (1-500 mL plastic w/o preserve), SVOCs per EPA Methods 8270 (1 L Amber w/o preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-42

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: CD
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 10.43 **Time:** 1400 11-16-11 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 10.44 **Time:** 0908 *(taken prior to purging well)*
Final D.T.W. (ft): **Time:** *(taken after sample collection)*
If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Project No.: AES 050204
Date: 11-22-11
Arrival Time: 0905
Air Temp: 31°
T.O.C. Elev. (ft): 5433.76
Total Well Depth (ft): 11.82

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
0916	12.53	4.216	0.856	7.31	-28.4	1.0	
0920	—	—	—	—	—	SC	—

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3 - 40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Method 8015 (3 - 40 mL Vials; 2 w/ HCl preserve, 1 w/o perserve)
SVOCs per EPA Method 8270 (1 L Amber; w/o preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-43

Animas Environmental Services

624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: Chad Denison
Purge / No Purge: No Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 12.47 **Time:** 1404 11-16-11 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 12.47 **Time:** 0830 *(taken prior to purging well)*
Final D.T.W. (ft): **Time:** *(taken after sample collection)*
If NAPL Present: **D.T.P.:** **D.T.W.:** **Thickness:** **Time:**

Project No.: AES 050204
Date: 11-22-11
Arrival Time: 0826
Air Temp: 31°
T.O.C. Elev. (ft): 5440.42
Total Well Depth (ft): 18.86

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
0851	13.08	3.383	1.52	7.21	-23.1	—	Low Yield
0855	—	—	—	—	—	3c	—

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3 - 40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Method 8015 (3 - 40 mL Vials; 2 w/ HCl preserve, 1 w/o perserve)
SVOCs per EPA Method 8270 (1 L Amber; w/o preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-46

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: CD
Purge / No Purge: No Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 7.67 **Time:** 0923 11-15-11 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 7.65 **Time:** 1350 *(taken prior to purging well)*
Final D.T.W. (ft): **Time:** *(taken after sample collection)*
If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Project No.: AES 050204
Date: 11-22-11
Arrival Time: 1348
Air Temp: 55°
T.O.C. Elev. (ft):
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1357	13.16	5.122	1.53	7.39	-33.2		
1400						SC	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3 - 40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Method 8015 (3 - 40 mL Vials; 2 w/ HCl preserve, 1 w/o perserve)
SVOCs per EPA Method 8270 (1 L Amber; w/o preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments: No Purge, was Low Yield Last Sampling Event

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-47

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: CD
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 6.79 **Time:** 920 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 6.80 **Time:** 1335 *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 050204
Date: 11-22-11
Arrival Time: 1330
Air Temp: 53°
T.O.C. Elev. (ft): _____
11-15-11 **Total Well Depth (ft):** _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1336	12.67	12.17	1.55	7.22	-23.1	1.00	
1340						SC	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (3-40 mL Vials 2 w/ HCl preserve, 1 w/o perserve)
RCRA 8 Metals per EPA Methods 6010/7470 (500 mL w/ HNO3 preserve)
Dissolved Metals per EPA Methods 6010 (125 mL w/ HNO3l preserve)
Bromide/Chloride/Fluoride/Sulfate per EPA Method 300.0, TDS per 2540C, Hardness per 6010, Specific Cond. per 120.1 (1-500 mL plastic w/o preserve), SVOCs per EPA Methods 8270 (1 L Amber w/o preserve)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-49

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: CD
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 6.14 **Time:** 0910 11-15-11 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 6.15 **Time:** 1320 *(taken prior to purging well)*
Final D.T.W. (ft): **Time:** *(taken after sample collection)*
If NAPL Present: D.T.P.: **D.T.W.:** **Thickness:** **Time:**

Project No.: AES 050204
Date: 11-22-11
Arrival Time: 1314
Air Temp: 53°
T.O.C. Elev. (ft):
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
	No	Sample					
		Roots in well					
		Could not get small Bailer through					

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (3-40 mL Vials 2 w/ HCl preserve, 1 w/o perserve)
RCRA 8 Metals per EPA Methods 6010/7470 (500 mL w/ HNO3 preserve)
Dissolved Metals per EPA Methods 6010 (125 mL w/ HNO3l preserve)
Bromide/Chloride/Fluoride/Sulfate per EPA Method 300.0, TDS per 2540C, Hardness per 6010, Specific Cond. per 120.1 (1-500 mL plastic w/o preserve), SVOCs per EPA Methods 8270 (1 L Amber w/o preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-50

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: CD
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 8.08 **Time:** 1319 11-16-11 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 8.08 **Time:** 1153 *(taken prior to purging well)*
Final D.T.W. (ft): **Time:** *(taken after sample collection)*
If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Project No.: AES 050204
Date: 11-17-11
Arrival Time: 1151
Air Temp: 57°
T.O.C. Elev. (ft):
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1205	16.526	4.889	0.35	7.19	-21.9	1.00	
1215	—	—	—	—	—	SC	—

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (3-40 mL Vials 2 w/ HCl preserve, 1 w/o perserve)
RCRA 8 Metals per EPA Methods 6010/7470 (500 mL w/ HNO3 preserve)
Dissolved Metals per EPA Methods 6010 (125 mL w/ HNO3l preserve)
Bromide/Chloride/Fluoride/Sulfate per EPA Method 300.0, TDS per 2540C, Hardness per 6010, Specific Cond. per 120.1 (1-500 mL plastic w/o preserve), SVOCs per EPA Methods 8270 (1 L Amber w/o preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-20

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: CD
Purge / No Purge: Purge
Well Diameter (in): 2"
Initial D.T.W. (ft): 6.22 **Time:** 0928 11-15-4 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 6.20 **Time:** 1409 *(taken prior to purging well)*
Final D.T.W. (ft): **Time:** *(taken after sample collection)*
If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Project No.: AES 050204
Date: 11-22-4
Arrival Time: 1404
Air Temp:
T.O.C. Elev. (ft): 5430.45
Total Well Depth (ft):

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1413	12.81	4.985	1.02	7.20	-22.1	1.00	
1417						SC	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3 - 40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Method 8015 (3 - 40 mL Vials; 2 w/ HCl preserve, 1 w/o perserve)
SVOCs per EPA Method 8270 (1 L Amber; w/o preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD	Animas Environmental Services
Monitor Well No: MW-21	624 E. Comanche, Farmington NM 87401 Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery — Project No.: AES 050204
Location: Bloomfield, New Mexico — Date: 11-22-11
Project: Groundwater Monitoring and Sampling — Arrival Time: 1240
Sampling Technician: CO — Air Temp: 30°
Purge / No Purge: Purge — T.O.C. Elev. (ft): 5428.62
Well Diameter (in): 2" — Total Well Depth (ft): ____
Initial D.T.W. (ft): 3.64 — Time: 0946 11-15-11 *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 3.65 — Time: 1246 *(taken prior to purging well)*
Final D.T.W. (ft): ____ — Time: ____ *(taken after sample collection)*
If NAPL Present: D.T.P.: ____ D.T.W.: ____ Thickness: ____ Time: ____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1300	13.16	6.972	1.09	7.16	-20.1	1.00	
1307						SC	

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3 - 40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Method 8015 (3 - 40 mL Vials; 2 w/ HCl preserve, 1 w/o perserve)
SVOCs per EPA Method 8270 (1 L Amber; w/o preserve)

Disposal of Purged Water: ____
Collected Samples Stored on Ice in Cooler: ____
Chain of Custody Record Complete: ____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: MW-22

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: CD
Purge / No Purge: Purge
Well Diameter (in):
Initial D.T.W. (ft): — **Time:**
Confirm D.T.W. (ft): — **Time:**
Final D.T.W. (ft): **Time:**
If NAPL Present: **D.T.P.:** **D.T.W.:** **Thickness:** **Time:**

Project No.: AES 050204
Date: 11-22-11
Arrival Time: 1230
Air Temp: 50°
T.O.C. Elev. (ft):
Total Well Depth (ft):
(taken at initial gauging of all wells)
(taken prior to purging well)
(taken after sample collection)

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations

No well purged Sample collected

Analytical Parameters (include analysis method and number and type of sample containers)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3 - 40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Method 8015 (3 - 40 mL Vials; 2 w/ HCl preserve, 1 w/o perserve)
SVOCs per EPA Method 8270 (1 L Amber; w/o preserve)

Disposal of Purged Water:
Collected Samples Stored on Ice in Cooler:
Chain of Custody Record Complete:
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: _____

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: _____
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 050204
Date: _____
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): _____
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations

Analytical Parameters (include analysis method and number and type of sample containers)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: _____

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: _____
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 050204
Date: _____
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): _____
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations

Analytical Parameters (include analysis method and number and type of sample containers)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: _____

Animas Environmental Services
624 E. Comanche, Farmington NM 87401
Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: _____
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): _____ **Time:** _____ *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): _____ **Time:** _____ *(taken prior to purging well)*
Final D.T.W. (ft): _____ **Time:** _____ *(taken after sample collection)*
If NAPL Present: **D.T.P.:** _____ **D.T.W.:** _____ **Thickness:** _____ **Time:** _____

Project No.: AES 050204
Date: _____
Arrival Time: _____
Air Temp: _____
T.O.C. Elev. (ft): _____
Total Well Depth (ft): _____

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations

Analytical Parameters (include analysis method and number and type of sample containers)

Disposal of Purged Water: _____
Collected Samples Stored on Ice in Cooler: _____
Chain of Custody Record Complete: _____
Analytical Laboratory: Hall Environmental Analysis Laboratory, Albuquerque, NM
Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

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