AP - 116

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Q4 2013 GWMR

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March 24, 2014

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 2013
Thriftway Refinery (NMOCD AP-116)
626 County Road 5500, Bloomfield, New Mexico

Dear Mr. von Gonten and Mr. Hansen:

Animas Environmental Services, LLC (AES) has prepared this 4th Quarter 2013 (Year 4) 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. A General Site Plan is included as Figure 1.

1.0 Groundwater Monitoring and Sampling

BioTech Remediation (BioTech) conducted groundwater monitoring and gauging of the monitor wells at the site on November 21, 22, and 25, 2013. Sampling of selected groundwater monitor wells occurred on December 2 through 5, 2013. Based on the current sampling plan, monitoring and gauging events occurred during the first and third quarters of 2013, with groundwater sampling scheduled during the second and fourth quarters. Wells that were gauged and sampled during the November/December 2013 event are presented below:

Year 4 Quarter #4 Monitor Well Gauging and Sampling List

Well ID	*Gauging Only*	*Gauging and Sampling*
TW-1 through TW-7	X	
TW-8		X
TW-9 through TW-15		
TW-17	X	
TW-18		X
TW-19 through TW-22 (all*)	X	
TW-24	X	
TW-25 through TW-29 (all*)	X	
TW-30 and TW-31		X
TW-32* and TW-36*	X	
TW-37		X
TW-38*	X	
TW-39		X
TW-40*	X	
TW-41 through TW-43		X
TW-44*	X	
TW-45 through TW-47		X
TW-49		X
TW-50*	X	
TW-51 through TW-54		X
MW-5	X	
MW-7		X
MW-20 and MW-21		X
* During 4th Quarter 2013, 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 in November and December 2013 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 the Appendix.

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 and December 2013 in 20 wells, including TW-12, TW-13, TW-14, TW-19 through TW-22, TW-25, TW-26, TW-28, TW-29, TW-32 through TW-36, TW-38, TW-40, TW-44, and TW-50. Free product thicknesses ranged from 0.01 feet in TW-34 up to 2.11 feet in TW-20.

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, 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-18, TW-31, TW-39, TW-42, TW-43, TW-45, TW-46, TW-52, and MW-7 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 8015D;
- benzene, toluene, ethylbenzene, and xylene (BTEX), methyl-t-butyl ether (MTBE), and naphthalene per USEPA Method 8260B;

Samples collected from monitor wells TW-37, TW-49, TW-51, MW-20, and MW-21 were analyzed for the following:

- TPH for GRO, MRO, and DRO per USEPA Method 8015D;
- BTEX, MTBE, and naphthalene per USEPA Method 8260B; and
- Chloride and sulfate per USEPA Method 300.0.

Samples collected from monitor well TW-47 were analyzed for the following:

- TPH for GRO, MRO, and DRO per USEPA Method 8015D;
- BTEX, MTBE, and naphthalene per USEPA Method 8260B;
- Chloride and sulfate per USEPA Method 300.0; and
- Total Dissolved Solids (TDS) per Standard Method 2540C.

Samples collected from monitor wells TW-8, TW-30, TW-41, TW-53, and TW-54 were analyzed for the following

- TPH for GRO, MRO, and DRO per USEPA Method 8015D;
- BTEX, MTBE, and naphthalene per USEPA Method 8260B;
- RCRA 8 Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) per USEPA Method 6010B and 7470;
- Dissolved metals (calcium, magnesium, potassium, and sodium) per USEPA Method 6010B;
- Bromide, chloride, fluoride, and sulfate per USEPA Method 300.0;

- Hardness as $CaCO_3$ per Standard Method 2340B;
- Total Dissolved Solids (TDS) per Standard Method 2540C; and
- Specific Conductance per Standard Method 2510B.

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

2.0 Groundwater Sampling 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 and December 2013 ranged from 5,424.46 feet above mean sea level (AMSL) in MW-20 to 5,440.35 feet AMSL in TW-19. Groundwater elevations increased across the site by an average of 0.2 feet since the gauging event in August 2013. Groundwater gradient was calculated between TW-1 and TW-42, with a magnitude of 0.006 ft/ft to the northwest for November/December 2013. 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/December 2013 are included on Figure 2. Electronic copies of the Water Sample Collection Forms are included in the Appendix.

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/December 2013 sampling event ranged from 9.19°C in TW-52 to 14.61°C in TW-37. Groundwater pH ranged between 7.83 (TW-51) and 8.23 (TW-37), and conductivity readings were between 1.219 mS/cm in TW-8 and 8.218 mS/cm in MW-7. Dissolved oxygen concentrations ranged from 0.09 mg/L in TW-39 to 0.68 mg/L in TW-49. ORP ranged from -224.0 mV (TW-45) to 153.3 mV (TW-52).

2.2 Free Product

Free product was measured in 20 monitor wells, including TW-12, TW-13, TW-14, TW-19 through TW-22, TW-25, TW-26, TW-28, TW-29, TW-32 through TW-36, TW-38, TW-40, TW-44, and TW-50. Measured LNAPL thicknesses ranged from 0.01 feet (TW-34) to 2.11

feet (TW-20). Note that most wells with free product showed average decreases in measured thicknesses of between 0.2 and 0.4 feet. Free product thickness contours for November/December 2013 are presented in Figure 3, and Graph 1 presents 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 2 of the 20 wells sampled, including TW-37 (130 µg/L) and TW-41 (45 µg/L). Note that benzene concentrations in the northwest portion of the plume remain below laboratory detection limits. Decreases in benzene concentrations were noted in TW-37, which had a reported concentration of 130 µg/L. Dissolved phase benzene concentration contours for November/December 2013 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 (1,600 µg/L).

Dissolved phase MTBE concentrations outside the area of free product were above the WQCC standard of 100 µg/L in three of the wells sampled in November/December 2013, including TW-43 (410 µg/L), TW-51 (300 µg/L), and MW-20 (190 µg/L). All other wells were either below the laboratory detection limits (1.0 µg/L) or below applicable WQCC standards. Note that in the northwest portion of the plume, MTBE concentrations have decreased in several wells, including MW-7, TW-37, TW-41, TW-42, TW-45, TW-46, TW-47 and TW-52. The decreasing MTBE concentrations in MW-7, TW-41, TW-42, TW-45 and TW-46 may be associated with the phytoremediation treatment area which was planted in 2012. MTBE concentration contours for November/December 2013 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 (34 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 Graphs 2 through 5 present select contaminant concentrations and groundwater elevations for

TW-37, TW-41, TW-43, and TW-52. Electronic copies of laboratory analytical reports are presented in the Appendix.

2.3.2 Geochemical Parameters

Geochemical analytical results from November/December 2013 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.
- Dissolved calcium concentrations ranged from 320 mg/L (TW-53 and TW-54) to 480 mg/L (TW-30);
- Dissolved magnesium concentrations ranged from 48 mg/L (TW-8) to 68 mg/L (TW-41 and TW-53);
- Dissolved potassium concentrations ranged from 5.2 mg/L (TW-8) to 7.1 mg/L (TW-54);
- Dissolved sodium concentrations ranged from 620 mg/L (TW-41) to 1,600 mg/L (TW-53);
- Bromide concentrations ranged from <0.5 mg/L (TW-30) to 0.81 mg/L (TW-53);
- Chloride concentrations were reported above the WQCC standard of 250 mg/L in TW-30 (660 mg/L), TW-41 (780 mg/L), TW-47 (1,100 mg/L), TW-49 (880 mg/L), MW-20 (520 mg/L), and MW-21 (610 mg/L);
- Fluoride concentrations were reported below the WQCC standard of 1.6 mg/L. Low concentrations were only reported in TW-8 (0.58 mg/L), TW-53 (0.27 mg/L), and TW-54 (0.26 mg/L);
- Sulfate concentrations were reported above the WQCC standard of 600 mg/L in all sampled wells. Reported sulfate concentrations ranged from 1,200 mg/L (TW-41) to 3,700 mg/L (TW-47 and TW-53);
- Specific conductance in the sampled wells ranged from 4,500 µmhos/cm to 7,400 µmhos/cm;
- Hardness as $CaCO_3$ ranged from 930 mg/L to 1,200 mg/L;
- 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 (7,790 mg/L).

Metals and geochemical analytical data are summarized in Tables 3 and 4, respectively, and electronic copies of laboratory analytical reports are presented in the Appendix.

3.0 Measurement of Groundwater and Free Product in MPE Wells

BioTech personnel measured depth to groundwater in MPE wells on December 27, 2013, and January 6, 2014. Depth to water ranged from 8.84 feet below TOC in MPE-80 to 24.19 feet below TOC in MPE-1. During the fourth quarter 2013, free product was measured in 47 MPE wells with free product thicknesses ranging from 0.02 feet in MPE-7 and MPE-25 to 1.23 feet in MPE-37. Table 5 includes MPE depth to water and NAPL thickness measurements.

4.0 MPE Remediation System Operations

The MPE remediation system was initially brought online in March 2010 and 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. The MPE remediation system (Engine #2) was brought back online on May 11, 2012, and was in operation from May through November 2012, when it was taken off-line for the winter season. During the week of March 6, 2013, Engine #2 was re-installed at the site. The operated within Phase 5 MPE wells during October and early November 2013. A total of approximately **30,054** lbs of petroleum hydrocarbons have been mechanically removed from the site since system startup on March 10, 2010.

BioTech personnel routinely inspect the system and record performance data. During O&M visits, BioTech personnel perform routine maintenance on the MPE remediation unit. Maintenance includes checking fluid levels, checking and replacing air filters, changing spark plugs, changing oil, flushing the radiator, and inspecting the catox unit.

In Engine #2, well vacuums for the reporting period from October through early November 2013 typically ranged between 60 and 191 in-H_2O during MPE operations, with total process flow typically ranging between 20 and 126 scfm. Well flow dilution air is estimated to be approximately 10 percent at each well (as needed to lift product).

4.1 System Operations

Based on system operations for October and November 2013, the following estimated remedial summary is presented:

MPE Remediation System Summary, Thriftway Refinery

Parameters	*Engine #1 Reporting Period (10/1/13—11/8/13)*	*Engine #2 Reporting Period (10/1/13—11/8/13)*	*Total Cumulative to Date*
Estimated Petroleum Hydrocarbons Removed (lbs)*	NA	929.42	30,054.32
Equivalent Gallons Gasoline Removed (gal)*	NA	149.96	4,847.85
Total Cubic Feet Processed (scf)	NA	1,610,360	27,901,534

*from soil vapors only

MPE Remediation System Run Time Summary, Thriftway Refinery

Month	*Engine #1 Run Time (hrs)*	*Engine #1 Percent Run Time*	*Engine #2 Run Time (hrs)*	*Engine #2 Percent Run Time*
October 2013	NA	NA**	714	96%

**Engine #1 is currently undergoing an engine rebuild.

4.2 Air Emissions Sampling

Influent and effluent photo-ionization detector readings and air samples were collected from the well gas influent and from the post-cat sample ports of Engine #2 on November 8, 2013. Air samples were collected in Tedlar bags and subsequently submitted to Hall in Albuquerque, New Mexico, where they were analyzed for BTEX and MTBE per EPA Method 8021B and EPA Method 8015B GRO. The analyzed air contaminants from samples collected from Engine #2 showed a 99 percent reduction in contaminant emissions which was achieved through combustion and post-combustion catalytic oxidation.

4.2.1 Engine #2

Analytical results for the **pre-engine** sample (**influent**) showed reported concentrations:

- 7.752 ppmv benzene;
- 15.578 ppmv toluene;
- 5.702 ppmv ethylbenzene;
- 35.904 ppmv xylenes;
- <6.373 ppmv MTBE; and
- 264 ppmv TPH-GRO.

The analytical results for the **post-cat** sample (**effluent**) had reported concentrations:

- 0.029 ppmv benzene;
- 0.061 ppmv toluene;
- 0.049 ppmv ethylbenzene;
- 0.401 ppmv xylene;
- <0.637 ppmv MTBE; and
- 6.72 ppmv TPH-GRO.

Contaminant removal through combustion and the catox was calculated to be greater than 99 percent for BTEX, MTBE, and TPH-GRO. Tabulated air analyses are included in Table 6, and air laboratory analytical reports (electronic) are presented in the Appendix.

5.0 Phytoremediation Project

Plans for additional plantings are underway for Spring 2014, which will include additional plantings of 100 hybrid poplar trees near and around Phase 3 MPE wells.

6.0 Summary and Conclusions

BioTech Remediation completed groundwater monitoring and gauging at the site in November and December 2013. Groundwater elevations in November/December 2013 increased by an average of 0.2 feet since August 2013 and are consistent with historical seasonal fluctuations. The groundwater gradient was calculated to be approximately 0.006 ft/ft in a northwest direction across the site, which is also consistent with historical site data.

In November/December 2013, free product was observed and measured in 20 monitor wells, TW-12, TW-13, TW-14, TW-19 through TW-22, TW-25, TW-26, TW-28, TW-29, TW-32 through TW-36, TW-38, TW-40, TW-44, and TW-50. Measured thicknesses ranged from 0.01 feet (TW-34) to 2.11 feet (TW-20). Note that measured free product thicknesses in monitor wells decreased on average of 0.2 to 0.4 feet in most wells. During the fourth quarter 2013, free product was also measured in 47 MPE wells with free product thicknesses ranging from 0.02 feet to 1.23 feet.

Based upon the analytical results for the November/December 2013 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 130 µg/L in TW-37. Xylene concentrations above the applicable WQCC standard of 620 µg/L was reported in TW-41 (1,600 µg/L). The highest dissolved phase MTBE concentration was detected in TW-43 (410 µg/L). Monitor well TW-41 exceeded the WQCC standard for naphthalene with 34 µg/L. The northwest portion of the dissolved phase plume is showing decreased benzene concentrations (TW-37) and decreased MTBE concentrations in MW-7, TW-37, TW-41, TW-42, TW-45, TW-46, TW-47 and TW-52. The decreasing MTBE concentrations in several of these wells, MW-7, TW-41, TW-42, TW-45 and TW-46, may be associated with the phytoremediation treatment area which was planted in 2012.

Geochemical data for the November/December 2013 sampling event showed that chloride concentrations exceeded the WQCC standard of 250 mg/L in seven of the sampled wells, with the highest concentration being reported in TW-49 (1,100 mg/L). All sampled wells had concentrations of sulfate above the WQCC standard of 600 mg/L, with the highest concentration reported in TW-47 and TW-53 with 3,700 mg/L. All sampled wells exceeded the WQCC standard of 1,000 mg/L for TDS, with the highest concentration reported in TW-47 (7,790 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 system (Engine #2) was reinstalled at site in March 2013. The system was in operation at the site through early November 2013 when it was removed from the site for the winter. A total of approximately **30,054** lbs of petroleum hydrocarbons have been mechanically removed from the site since system startup on March 10, 2010.

8.0 Recommendations and Scheduled Site Activities

AES recommends that the sampling and monitoring plan for the site be updated to reflect current conditions (i.e. installation of phytoremediation areas and operations of the MPE system).

The following items were scheduled to occur during early of 2014:

1. In accordance with the conditions of the Interim Groundwater Sampling Plan approval by NMOCD, the quarterly groundwater and NAPL monitoring and gauging event was conducted during February and March 2014.
2. Phytoremediation monitoring and planting activities are scheduled for early April 2014.

3. The MPE remediation system was placed in pulse mode through the winter months and will be re-activated in spring 2014, once nighttime temperatures consistently remain above freezing.

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

Sincerely,

Deborah Watson, P.G.
Project Manager

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

Attachments:

Tables

Table 1. Summary of Recent Groundwater Measurements and Water Quality Data
Table 2. Summary of Groundwater Analytical 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 of MPE Wells
Table 6. Summary of Air Laboratory Analytical Results

Figures

Figure 1. General Site Plan
Figure 2. Groundwater Elevations, November/December 2013
Figure 3. Free Product Thickness Contours, November/December 2013
Figure 4. Dissolved Benzene Concentration Contours, November/December 2013
Figure 5. Dissolved MTBE Concentration Contours, November/December 2013

Graphs

Graph 1. Selected Wells with Free Product Over Time
Graph 2. TW-37 Groundwater Benzene and MTBE Concentrations and Groundwater Elevations Over Time
Graph 3. TW-41 Groundwater Benzene, Xylene, and MTBE Concentrations and Groundwater Elevations Over Time
Graph 4. TW-43 Groundwater MTBE Concentrations and Groundwater Elevations Over Time
Graph 5. TW-54 Groundwater MTBE Concentrations and Groundwater Elevations Over Time

Appendix (Electronic)

Depth to Groundwater Measurement Forms
Water Sample Collection Forms
RSI Operational Data Report
Laboratory Analytical Reports Hall # 1311394, 1312210, 1312290, 1312284

cc: Robert Moss
via email at robertgmoss@me.com
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-1	29-Feb-12	5471.58		30.96		5440.62	NM	NM	NM	NM	NM	NM
TW-1	11-May-12	5471.58		30.81		5440.77	NM	NM	NM	NM	NM	NM
TW-1	08-Aug-12	5471.58		31.28		5440.30	NM	NM	NM	NM	NM	NM
TW-1	02-Nov-12	5471.58		31.39		5440.19	NM	NM	NM	NM	NM	NM
TW-1	05-Feb-13	5471.58		31.24		5440.34	NM	NM	NM	NM	NM	NM
TW-1	07-May-13	5471.58		31.00		5440.58	NM	NM	NM	NM	NM	NM
TW-1	05-Aug-13	5471.58		31.48		5440.10	NM	NM	NM	NM	NM	NM
TW-1	21-Nov-13	5471.58		31.38		5440.20	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

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-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-2	29-Feb-12	5469.31		29.19		5440.12	NM	NM	NM	NM	NM	NM
TW-2	11-May-12	5469.31		29.04		5440.27	NM	NM	NM	NM	NM	NM
TW-2	08-Aug-12	5469.31		29.49		5439.82	NM	NM	NM	NM	NM	NM
TW-2	02-Nov-12	5469.31		29.61		5439.70	NM	NM	NM	NM	NM	NM
TW-2	05-Feb-13	5469.31		29.45		5439.86	NM	NM	NM	NM	NM	NM
TW-2	07-May-13	5469.31		29.22		5440.09	NM	NM	NM	NM	NM	NM
TW-2	05-Aug-13	5469.31		29.68		5439.63	NM	NM	NM	NM	NM	NM
TW-2	21-Nov-13	5469.31		29.60		5439.71	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
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-3	29-Feb-12	5468.14		28.2		5439.94	NM	NM	NM	NM	NM	NM
TW-3	11-May-12	5468.14		28.07		5440.07	NM	NM	NM	NM	NM	NM
TW-3	08-Aug-12	5468.14		28.34		5439.80	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-3	02-Nov-12	5468.14		NM	NOT MEASURED - ROOT GROWTH AT 28'							
TW-3	05-Feb-13	5468.14		NM	NOT MEASURED - ROOT GROWTH AT 28'							
TW-3	07-May-13	5468.14		28.23		5439.91	NM	NM	NM	NM	NM	NM
TW-3	05-Aug-13	5468.14		28.23	NOT MEASURED - ROOT GROWTH AT 28'							
TW-3	21-Nov-13	5468.14		DRY	NOT MEASURED - ROOT GROWTH AT 28'							
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-4	29-Feb-12	5458.72		19.32		5439.40	NM	NM	NM	NM	NM	NM
TW-4	11-May-12	5458.72		19.17		5439.55	NM	NM	NM	NM	NM	NM
TW-4	08-Aug-12	5458.72		19.66		5439.06	NM	NM	NM	NM	NM	NM
TW-4	02-Nov-12	5458.72		19.77		5438.95	NM	NM	NM	NM	NM	NM
TW-4	05-Feb-13	5458.72		19.55		5439.17	NM	NM	NM	NM	NM	NM
TW-4	07-May-13	5458.72		19.33		5439.39	NM	NM	NM	NM	NM	NM
TW-4	05-Aug-13	5458.72		19.84		5438.88	NM	NM	NM	NM	NM	NM
TW-4	21-Nov-13	5458.72		19.77		5438.95	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

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	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
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-5	29-Feb-12	5465.18		25.77		5439.41	NM	NM	NM	NM	NM	NM
TW-5	11-May-12	5465.18		25.61		5439.57	NM	NM	NM	NM	NM	NM
TW-5	08-Aug-12	5465.18		26.05		5439.13	NM	NM	NM	NM	NM	NM
TW-5	02-Nov-12	5465.18		26.17		5439.01	NM	NM	NM	NM	NM	NM
TW-5	05-Feb-13	5465.18		26.00		5439.18	NM	NM	NM	NM	NM	NM
TW-5	05-Aug-13	5465.18		26.23		5438.95	NM	NM	NM	NM	NM	NM
TW-5	21-Nov-13	5465.18		26.18		5439.00	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

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-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-6	29-Feb-12	5463.57		24.94		5438.63	NM	NM	NM	NM	NM	NM
TW-6	11-May-12	5463.57		24.81		5438.76	NM	NM	NM	NM	NM	NM
TW-6	08-Aug-12	5463.57		25.23		5438.34	NM	NM	NM	NM	NM	NM
TW-6	02-Nov-12	5463.57		25.35		5438.22	NM	NM	NM	NM	NM	NM
TW-6	05-Feb-13	5463.57		25.19		5438.38	NM	NM	NM	NM	NM	NM
TW-6	07-May-13	5463.57		24.98		5438.59	NM	NM	NM	NM	NM	NM
TW-6	05-Aug-13	5463.57		29.42		5434.15	NM	NM	NM	NM	NM	NM
TW-6	21-Nov-13	5463.57		25.37		5438.20	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
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-7	29-Feb-12	5461.17		22.41		5438.76	NM	NM	NM	NM	NM	NM
TW-7	17-May-12	5461.17		22.28		5438.89	7.23	2.517	0.44	17.05	-24.5	NM
TW-7	08-Aug-12	5461.17		22.69		5438.48	NM	NM	NM	NM	NM	NM
TW-7	02-Nov-12	5461.17		22.83		5438.34	7.74	2.811	0.57	14.31	-53.2	2.0
TW-7	05-Feb-13	5461.17		22.64		5438.53	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-7	09-May-13	5461.17		22.46		5438.71	7.31	1.860	0.54	16.12	-28.4	3.0
TW-7	05-Aug-13	5461.17		22.88		5438.29	NM	NM	NM	NM	NM	NM
TW-7	02-Dec-13	5461.17		22.90		5438.27	NM	NM	NM	NM	NM	NM
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-8	19-Feb-12	5458.29		19.83		5438.46	NM	NM	NM	NM	NM	NM
TW-8	17-May-12	5458.29		19.75		5438.54	7.19	2.791	0.09	14.53	-21.6	NM
TW-8	08-Aug-12	5458.29		20.23		5438.06	NM	NM	NM	NM	NM	NM
TW-8	02-Nov-12	5458.29		20.30		5437.99	7.83	3.298	1.00	14.47	-58.9	3.6
TW-8	05-Feb-13	5458.29		20.02		5438.27	NM	NM	NM	NM	NM	NM
TW-8	09-May-13	5458.29		19.84		5438.45	7.13	1.633	0.31	14.07	-18.6	3.0
TW-8	05-Aug-13	5458.29		20.42		5437.87	NM	NM	NM	NM	NM	NM
TW-8	02-Dec-13	5458.29		20.27		5438.02	7.86	1.219	0.44	10.98	-216.1	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

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-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
TW-9	29-Feb-12	5450.61		12.28		5438.33	NM	NM	NM	NM	NM	NM
TW-9	11-May-12	5450.61		12.27		5438.34	NM	NM	NM	NM	NM	NM
TW-9	08-Aug-12	5450.61		12.85		5437.76	NM	NM	NM	NM	NM	NM
TW-9	02-Nov-12	5450.61		12.82		5437.79	NM	NM	NM	NM	NM	NM
TW-9	05-Feb-13	5450.61		12.43		5438.18	NM	NM	NM	NM	NM	NM
TW-9	07-May-13	5450.61		12.33		5438.28	NM	NM	NM	NM	NM	NM
TW-9	05-Aug-13	5450.61		13.04		5437.57	NM	NM	NM	NM	NM	NM
TW-9	21-Nov-13	5450.61		12.74		5437.87	NM	NM	NM	NM	NM	NM
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

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	15-Nov-11	5450.16		12.73		5437.43	NM	NM	NM	NM	NM	NM
TW-10	29-Feb-12	5450.16		12.49		5437.67	NM	NM	NM	NM	NM	NM
TW-10	11-May-12	5450.16		12.48		5437.68	NM	NM	NM	NM	NM	NM
TW-10	08-Aug-12	5450.16		13.04		5437.12	NM	NM	NM	NM	NM	NM
TW-10	02-Nov-12	5450.16		12.96		5437.20	NM	NM	NM	NM	NM	NM
TW-10	05-Feb-13	5450.16		12.60		5437.56	NM	NM	NM	NM	NM	NM
TW-10	07-May-13	5450.16		12.53		5437.63	NM	NM	NM	NM	NM	NM
TW-10	05-Aug-13	5450.16		13.20		5436.96	NM	NM	NM	NM	NM	NM
TW-10	21-Nov-13	5450.16		13.20		5436.96	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-11	29-Feb-12	5456.31		18.25		5438.06	NM	NM	NM	NM	NM	NM
TW-11	11-May-12	5456.31		18.18		5438.13	NM	NM	NM	NM	NM	NM
TW-11	08-Aug-12	5456.31		18.56		5437.75	NM	NM	NM	NM	NM	NM
TW-11	02-Nov-12	5456.31		18.68		5437.63	NM	NM	NM	NM	NM	NM
TW-11	05-Feb-13	5456.31		18.46		5437.85	NM	NM	NM	NM	NM	NM
TW-11	07-May-13	5456.31		18.32		5437.99	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-11	05-Aug-13	5456.31		18.75		5437.56	NM	NM	NM	NM	NM	NM
TW-11	21-Nov-13	5456.31		18.68		5437.63	NM	NM	NM	NM	NM	NM
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
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-12	28-Feb-12	5460.44		22.57		5437.87	NM	NM	NM	NM	NM	NM
TW-12	11-May-12	5460.44	22.46	22.53	0.07	5437.97	NM	NM	NM	NM	NM	NM
TW-12	08-Aug-12	5460.44	22.83	23.11	0.28	5437.56	NM	NM	NM	NM	NM	NM
TW-12	12-Nov-12	5460.44	22.95	23.00	0.05	5437.48	NM	NM	NM	NM	NM	NM
TW-12	05-Feb-13	5460.44	22.76	22.94	0.18	5437.65	NM	NM	NM	NM	NM	NM
TW-12	07-May-13	5460.44	22.61	22.75	0.14	5437.81	NM	NM	NM	NM	NM	NM
TW-12	05-Aug-13	5460.44	22.96	23.33	0.37	5437.42	NM	NM	NM	NM	NM	NM
TW-12	21-Nov-13	5460.44	22.92	23.21	0.29	5437.47	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

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-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-13	29-Feb-12	5458.17	20.79	21.70	0.91	5437.22	Not Sampled - NAPL Present					
TW-13	29-Feb-12	5458.17	20.79	21.70	0.91	5437.22	Not Sampled - NAPL Present					
TW-13	11-May-12	5458.17	20.70	21.60	0.90	5437.31	Not Sampled - NAPL Present					
TW-13	08-Aug-12	5458.17	21.05	22.25	1.20	5436.91	NM	NM	NM	NM	NM	NM
TW-13	12-Nov-12	5458.17	21.05	22.35	1.30	5436.90	NM	NM	NM	NM	NM	NM
TW-13	05-Feb-13	5458.17	20.91	22.02	1.11	5437.07	NM	NM	NM	NM	NM	NM
TW-13	07-May-13	5458.17	20.80	21.75	0.95	5437.21	NM	NM	NM	NM	NM	NM
TW-13	05-Aug-13	5458.17	21.20	22.43	1.23	5436.76	NM	NM	NM	NM	NM	NM
TW-13	03-Dec-13	5458.17	21.10	22.21	1.11	5436.88	NM	NM	NM	NM	NM	NM
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
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

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	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-14	29-Feb-12	5454.24	17.21	17.52	0.31	5436.98	NM	NM	NM	NM	NM	NM
TW-14	11-May-12	5454.24	17.16	17.27	0.11	5437.06	NM	NM	NM	NM	NM	NM
TW-14	08-Aug-12	5454.24	17.30	18.52	1.22	5436.73	NM	NM	NM	NM	NM	NM
TW-14	12-Nov-12	5454.24	17.42	18.81	1.39	5436.58	NM	NM	NM	NM	NM	NM
TW-14	05-Feb-13	5454.24	17.28	18.15	0.87	5436.81	NM	NM	NM	NM	NM	NM
TW-14	07-May-13	5454.24	17.22	17.70	0.48	5436.94	NM	NM	NM	NM	NM	NM
TW-14	05-Aug-13	5454.24	17.42	18.85	1.43	5436.57	NM	NM	NM	NM	NM	NM
TW-14	03-Dec-13	5454.24	17.4	18.64	1.24	5436.63	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-15	29-Feb-12	5450.44		13.19		5437.25	NM	NM	NM	NM	NM	NM
TW-15	17-May-12	5450.44		13.20		5437.24	7.32	3.593	0.85	14.09	-29.0	NM
TW-15	08-Aug-12	5450.44		13.70		5436.74	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-15	02-Nov-12	5450.44		13.61		5436.83	NM	NM	NM	NM	NM	NM
TW-15	05-Feb-13	5450.44		13.34		5437.10	NM	NM	NM	NM	NM	NM
TW-15	09-May-13	5450.44		13.28		5437.16	7.34	1.938	0.49	13.31	-30.3	3.0
TW-15	05-Aug-13	5450.44		13.86		5436.58	NM	NM	NM	NM	NM	NM
TW-15	21-Nov-13	5450.44		13.60		5436.84	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
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-16	29-Feb-12	5448.45		11.44		5437.01	NM	NM	NM	NM	NM	NM
TW-16	11-May-12	5448.45		11.54		5436.91	NM	NM	NM	NM	NM	NM
TW-16	08-Aug-12	5448.45	Not Measured - Root Growth at 11.0'									
TW-16	02-Nov-12	5448.45	Not Measured - Root Growth at 11.0'									
TW-16	05-Feb-13	5448.45	Not Measured - Root Growth at 11.0'									
TW-16	07-May-13	5448.45	Not Measured - Root Growth at 11.0'									
TW-16	07-May-13	5448.45	Not Measured - Root Growth at 11.0'									
TW-16	05-Aug-13	5448.45	Not Measured - Root Growth at 11.0'									
TW-16	21-Nov-13	5448.45	Not Measured - Root Growth at 11.0'									

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-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-17	29-Feb-12	5446.24		10.06		5436.18	NM	NM	NM	NM	NM	NM
TW-17	11-May-12	5446.24		10.13		5436.11	NM	NM	NM	NM	NM	NM
TW-17	08-Aug-12	5446.24		10.58		5435.66	NM	NM	NM	NM	NM	NM
TW-17	02-Nov-12	5446.24		14.42		5431.82	NM	NM	NM	NM	NM	NM
TW-17	05-Feb-13	5446.24		10.10		5436.14	NM	NM	NM	NM	NM	NM
TW-17	07-May-13	5446.24		10.15		5436.09	NM	NM	NM	NM	NM	NM
TW-17	05-Aug-13	5446.24		10.71		5435.53	NM	NM	NM	NM	NM	NM
TW-17	21-Nov-13	5446.24		10.12		5436.12	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

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	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
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-18	29-Feb-12	5452.73		16.48		5436.25	7.25	NM	NM	NM	NM	NM
TW-18	17-May-12	5452.73		16.41		5436.32	7.29	4.157	0.79	16.25	-27.7	NM
TW-18	08-Aug-12	5452.73		16.78		5435.95	NM	NM	NM	NM	NM	NM
TW-18	02-Nov-12	5452.73		16.87		5435.86	7.91	4.440	1.10	16.37	-62.2	3.0
TW-18	05-Feb-13	5452.73		16.65		5436.08	NM	NM	NM	NM	NM	NM
TW-18	07-May-13	5452.73		16.58		5436.15	NM	NM	NM	NM	NM	NM
TW-18	05-Aug-13	5452.73		16.95		5435.78	NM	NM	NM	NM	NM	NM
TW-18	03-Dec-13	5452.73		16.83		5435.90	8.00	2.448	0.23	14.33	84.8	NM
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-19	29-Feb-12	5458.49	17.74	18.11	0.37	5440.69	Not Sampled - NAPL Present					
TW-19	11-May-12	5458.49	17.70	17.84	0.14	5440.77	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-19	08-Aug-12	5458.49	17.93	18.57	0.64	5440.45	NM	NM	NM	NM	NM	NM
TW-19	14-Nov-12	5458.49	17.91	18.95	1.04	5440.40	NM	NM	NM	NM	NM	NM
TW-19	06-Feb-13	5458.49	17.86	18.43	0.57	5440.53	NM	NM	NM	NM	NM	NM
TW-19	07-May-13	5458.49	17.85	18.34	0.49	5440.56	NM	NM	NM	NM	NM	NM
TW-19	05-Aug-13	5458.49	18.03	18.96	0.93	5440.30	NM	NM	NM	NM	NM	NM
TW-19	03-Dec-13	5458.49	18.01	18.79	0.78	5440.35	NM	NM	NM	NM	NM	NM
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					
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-20	29-Feb-12	5453.74	17.55	19.02	1.47	5435.94	Not Sampled - NAPL Present					
TW-20	11-May-12	5453.74	17.47	18.88	1.41	5436.03	Not Sampled - NAPL Present					
TW-20	08-Aug-12	5453.74	17.95	18.32	0.37	5435.73	NM	NM	NM	NM	NM	NM
TW-20	14-Nov-12	5453.74	17.73	18.90	1.17	5435.81	NM	NM	NM	NM	NM	NM
TW-20	06-Feb-13	5453.74	17.62	19.51	1.89	5435.79	NM	NM	NM	NM	NM	NM
TW-20	07-May-13	5453.74	17.57	19.12	1.55	5435.90	NM	NM	NM	NM	NM	NM
TW-20	05-Aug-13	5453.74	17.91	20.46	2.55	5435.39	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-20	03-Dec-13	5453.74	17.80	19.91	2.11	5435.57	NM	NM	NM	NM	NM	NM
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-21	29-Feb-12	5451.85	TW damaged by demolition work									
TW-21	14-May-12	5451.85	TW damaged by demolition work									
TW-21	08-Aug-12	5451.85	16.78	17.60	0.82	5434.93	NM	NM	NM	NM	NM	NM
TW-21	14-Nov-12	5451.85	16.77	17.84	1.07	5434.89	NM	NM	NM	NM	NM	NM
TW-21	06-Feb-13	5451.85	16.70	17.47	0.77	5435.02	NM	NM	NM	NM	NM	NM
TW-21	14-May-13	5451.85	16.71	17.05	0.34	5435.08	NM	NM	NM	NM	NM	NM
TW-21	12-Aug-13	5451.85	16.90	18.00	1.10	5434.76	NM	NM	NM	NM	NM	NM
TW-21	21-Nov-13	5451.85	16.86	17.73	0.87	5434.84	NM	NM	NM	NM	NM	NM
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

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	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					
TW-22	16-Nov-11	5450.19	15.10	15.62	0.52	5435.00	Not Sampled - NAPL Present					
TW-22	29-Feb-12	5450.19	14.96	15.30	0.34	5435.17	Not Sampled - NAPL Present					
TW-22	14-May-12	5450.19	14.87	15.12	0.25	5435.28	Not Sampled - NAPL Present					
TW-22	08-Aug-12	5450.19	15.10	15.70	0.60	5434.99	Not Sampled - NAPL Present					
TW-22	14-Nov-12	5450.19	15.20	15.85	0.65	5434.88	Not Sampled - NAPL Present					
TW-22	06-Feb-13	5450.19	15.12	15.36	0.24	5435.03	NM	NM	NM	NM	NM	NM
TW-22	14-May-13	5450.19	15.12	15.35	0.23	5435.03	NM	NM	NM	NM	NM	NM
TW-22	12-Aug-13	5450.19	15.30	16.15	0.85	5434.74	NM	NM	NM	NM	NM	NM
TW-22	03-Dec-13	5450.19	15.23	15.58	0.35	5434.90	NM	NM	NM	NM	NM	NM
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

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-23	16-Nov-11	5443.64		9.05		5434.59	NM	NM	NM	NM	NM	NM
TW-23	29-Feb-12	5443.64		9.01		5434.63	NM	NM	NM	NM	NM	NM
TW-23	14-May-12	5443.64	Not Measured - Root Growth at 9.0'									
TW-23	08-Aug-12	5443.64	Not Measured - Root Growth at 9.0'									
TW-23	14-Nov-12	5443.64	Not Measured - Root Growth at 9.0'									
TW-23	06-Feb-13	5443.64	Not Measured - Root Growth at 9.0'									
TW-23	14-May-13	5443.64	Not Measured - Root Growth at 9.0'									
TW-23	12-Aug-13	5443.64	Not Measured - Root Growth at 9.0'									
TW-23	03-Dec-13	5443.64	Not Measured - Root Growth at 9.0'									
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					
TW-24	29-Feb-12	5444.79	11.08	11.10	0.02	5433.71	Not Sampled - NAPL Present					
TW-24	14-May-12	5444.79		11.07		5433.72	NM	NM	NM	NM	NM	NM
TW-24	08-Aug-12	5444.79	11.34	11.44	0.10	5433.43	NM	NM	NM	NM	NM	NM
TW-24	14-Nov-12	5444.79	11.37	11.47	0.10	5433.40	NM	NM	NM	NM	NM	NM
TW-24	06-Feb-13	5444.79		11.15		5433.64	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-24	14-May-13	5444.79	11.23	11.25	0.02	5433.56	NM	NM	NM	NM	NM	NM
TW-24	12-Aug-13	5444.79	13.51	13.56	0.05	5431.27	NM	NM	NM	NM	NM	NM
TW-24	03-Dec-13	5444.79		16.16		5428.63	NM	NM	NM	NM	NM	NM
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-25	29-Feb-12	5448.80	14.25	14.71	0.46	5434.47	Not Sampled - NAPL Present					
TW-25	14-May-12	5448.80	14.16	14.45	0.29	5434.59	Not Sampled - NAPL Present					
TW-25	08-Aug-12	5448.80	14.35	15.15	0.80	5434.31	NM	NM	NM	NM	NM	NM
TW-25	14-Nov-12	5448.80	14.43	15.31	0.88	5434.22	NM	NM	NM	NM	NM	NM
TW-25	06-Feb-13	5448.80	14.36	14.87	0.51	5434.35	NM	NM	NM	NM	NM	NM
TW-25	14-May-13	5448.80	14.36	14.77	0.41	5434.37	NM	NM	NM	NM	NM	NM
TW-25	12-Aug-13	5448.80	14.58	15.57	0.99	5434.05	NM	NM	NM	NM	NM	NM
TW-25	21-Nov-13	5448.80	14.50	15.00	0.50	5434.21	NM	NM	NM	NM	NM	NM
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

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-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-26	29-Feb-12	5450.34	15.94	16.85	0.91	5434.24	Not Sampled - NAPL Present					
TW-26	14-May-12	5450.34	15.86	16.64	0.78	5434.35	Not Sampled - NAPL Present					
TW-26	08-Aug-12	5450.34	16.02	17.42	1.40	5434.08	NM	NM	NM	NM	NM	NM
TW-26	14-Nov-12	5450.34	16.12	17.62	1.50	5433.96	NM	NM	NM	NM	NM	NM
TW-26	06-Feb-13	5450.34	16.07	17.18	1.11	5434.08	NM	NM	NM	NM	NM	NM
TW-26	14-May-13	5450.34	16.01	16.93	0.92	5434.17	NM	NM	NM	NM	NM	NM
TW-26	12-Aug-13	5450.34	16.21	17.75	1.54	5433.86	NM	NM	NM	NM	NM	NM
TW-26	03-Dec-13	5450.34	16.19	17.56	1.37	5433.91	NM	NM	NM	NM	NM	NM
TW-28	17-Dec-08	5449.24	15.37	15.96	0.59	5433.77	Not Sampled - NAPL Present					
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

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	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-28	29-Feb-12	5449.24	15.33	16.46	1.13	5433.71	Not Sampled - NAPL Present					
TW-28	14-May-12	5449.24	15.26	16.19	0.93	5433.82	Not Sampled - NAPL Present					
TW-28	08-Aug-12	5449.24	15.39	16.81	1.42	5433.60	NM	NM	NM	NM	NM	NM
TW-28	14-Nov-12	5449.24	15.50	17.06	1.56	5433.47	NM	NM	NM	NM	NM	NM
TW-28	06-Feb-13	5449.24	15.45	16.74	1.29	5433.57	NM	NM	NM	NM	NM	NM
TW-28	14-May-13	5449.24	15.40	16.53	1.13	5433.64	NM	NM	NM	NM	NM	NM
TW-28	12-Aug-13	5449.24	15.56	17.16	1.60	5433.40	NM	NM	NM	NM	NM	NM
TW-28	03-Dec-13	5449.24	15.55	16.92	1.37	5433.45	NM	NM	NM	NM	NM	NM
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-29	29-Feb-12	5441.87	9.37	9.78	0.41	5432.43	Not Sampled - NAPL Present					
TW-29	14-May-12	5441.87	9.23	9.42	0.19	5432.61	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-29	08-Aug-12	5441.87	9.40	10.30	0.90	5432.31	NM	NM	NM	NM	NM	NM
TW-29	14-Nov-12	5441.87	9.51	10.50	0.99	5432.19	NM	NM	NM	NM	NM	NM
TW-29	06-Feb-13	5441.87	9.38	9.71	0.33	5432.43	NM	NM	NM	NM	NM	NM
TW-29	14-May-13	5441.87	9.44	9.90	0.46	5432.35	NM	NM	NM	NM	NM	NM
TW-29	12-Aug-13	5441.87	9.61	10.64	1.03	5432.08	NM	NM	NM	NM	NM	NM
TW-29	03-Dec-13	5441.87	9.41	9.64	0.23	5432.42	NM	NM	NM	NM	NM	NM
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
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-30	28-Feb-12	5437.93		6.18		5431.75	NM	NM	NM	NM	NM	NM
TW-30	14-May-12	5437.93		5.96		5431.97	NM	NM	NM	NM	NM	NM
TW-30	08-Aug-12	5437.93		6.40		5431.53	NM	NM	NM	NM	NM	NM
TW-30	09-Nov-12	5437.93		6.48		5431.45	7.70	5.352	0.48	11.64	-50.5	5.5
TW-30	06-Feb-13	5437.93		6.23		5431.70	NM	NM	NM	NM	NM	NM
TW-30	14-May-13	5437.93		6.35		5431.58	NM	NM	NM	NM	NM	NM
TW-30	12-Aug-13	5437.93		6.64		5431.29	NM	NM	NM	NM	NM	NM
TW-30	03-Dec-13	5437.93		5.96		5431.97	8.03	2.996	0.20	12.71	17.2	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-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-31	28-Feb-12	5438.54		7.11		5431.43	NM	NM	NM	NM	NM	NM
TW-31	14-May-12	5438.54		6.76		5431.78	NM	NM	NM	NM	NM	NM
TW-31	08-Aug-12	5438.54		7.18		5431.36	NM	NM	NM	NM	NM	NM
TW-31	09-Nov-12	5438.54		7.36		5431.18	7.64	4.072	0.23	14.46	-47.7	3.0
TW-31	06-Feb-13	5438.54		7.17		5431.37	NM	NM	NM	NM	NM	NM
TW-31	14-May-13	5438.54		7.26		5431.28	NM	NM	NM	NM	NM	NM
TW-31	12-Aug-13	5438.54		7.50		5431.04	NM	NM	NM	NM	NM	NM
TW-31	03-Dec-13	5438.54		7.11		5431.43	8.02	3.110	0.24	13.53	113.7	NM
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	Not Sampled - NAPL Present					
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	Not Sampled - NAPL present					
TW-32	16-Feb-10	5441.61	8.97	9.98	1.01	5432.47	Not Sampled - NAPL present					
TW-32	07-May-10	5441.61	8.92	9.34	0.42	5432.62	Not Sampled - NAPL present					
TW-32	18-Aug-10	5441.61	9.00	10.18	1.18	5432.41	Not Sampled - NAPL present					
TW-32	15-Nov-10	5441.61	9.30	10.87	1.57	5432.04	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-32	23-Feb-11	5441.61	9.23	10.79	1.56	5432.11	Not Sampled - NAPL present					
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-32	29-Feb-12	5441.61	9.27	10.72	1.45	5432.09	Not Sampled - NAPL Present					
TW-32	14-May-12	5441.61	9.13	10.47	1.34	5432.25	Not Sampled - NAPL Present					
TW-32	10-Aug-12	5441.61	9.34	10.79	1.45	5432.02	Not Sampled - NAPL Present					
TW-32	06-Feb-13	5441.61	9.36	10.72	1.36	5432.01	Not Sampled - NAPL Present					
TW-32	14-May-13	5441.61	9.38	10.65	1.27	5432.01	Not Sampled - NAPL Present					
TW-32	12-Aug-13	5441.61	9.59	10.56	0.97	5431.85	Not Sampled - NAPL Present					
TW-32	21-Nov-13	5441.61	9.45	10.60	1.15	5431.96	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-33	29-Feb-12	5445.85	13.10	13.15	0.05	5432.74	Not Sampled - NAPL Present					
TW-33	14-May-12	5445.85	12.93	12.98	0.05	5432.91	Not Sampled - NAPL Present					
TW-33	08-Aug-12	5445.85	13.10	13.40	0.30	5432.70	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-33	09-Nov-12	5445.85	13.22	13.50	0.28	5432.58	NM	NM	NM	NM	NM	NM
TW-33	06-Feb-13	5445.85	13.14	13.39	0.25	5432.67	NM	NM	NM	NM	NM	NM
TW-33	14-May-13	5445.85	13.00	13.52	0.52	5432.76	NM	NM	NM	NM	NM	NM
TW-33	12-Aug-13	5445.85	13.19	14.08	0.89	5432.51	NM	NM	NM	NM	NM	NM
TW-33	21-Nov-13	5445.85	13.11	14.08	0.97	5432.57	NM	NM	NM	NM	NM	NM
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
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-34	29-Feb-12	5455.80		19.91		5435.89	NM	NM	NM	NM	NM	NM
TW-34	22-May-12	5455.80		19.99		5435.81	NM	NM	NM	NM	NM	NM
TW-34	10-Aug-12	5455.80		20.55		5435.25	NM	NM	NM	NM	NM	NM
TW-34	09-Nov-12	5455.80		20.38		5435.42	NM	NM	NM	NM	NM	NM
TW-34	06-Feb-13	5455.80		20.18		5435.62	NM	NM	NM	NM	NM	NM
TW-34	14-May-13	5455.80		20.09		5435.71	NM	NM	NM	NM	NM	NM
TW-34	12-Aug-13	5455.80		20.75		5435.05	NM	NM	NM	NM	NM	NM
TW-34	21-Nov-13	5455.80	20.4	20.41	0.01	5435.40	NM	NM	NM	NM	NM	NM
TW-35	18-Dec-08	5449.14		15.21		5433.93	7.04	7.929	4.39	14.98	-189.4	1.25

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-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-35	29-Feb-12	5449.14		15.28		5433.86	NM	NM	NM	NM	NM	NM
TW-35	22-May-12	5449.14		15.51		5433.63	NM	NM	NM	NM	NM	NM
TW-35	10-Aug-12	5449.14	15.35	15.98	0.63	5433.68	NM	NM	NM	NM	NM	NM
TW-35	09-Nov-12	5449.14	15.45	16.01	0.56	5433.59	NM	NM	NM	NM	NM	NM
TW-35	06-Feb-13	5449.14	15.34	16.02	0.68	5433.68	NM	NM	NM	NM	NM	NM
TW-35	14-May-13	5449.14	15.20	16.10	0.90	5433.78	NM	NM	NM	NM	NM	NM
TW-35	12-Aug-13	5449.14	15.39	16.89	1.50	5433.49	NM	NM	NM	NM	NM	NM
TW-35	21-Nov-13	5449.14	15.37	16.63	1.26	5433.55	NM	NM	NM	NM	NM	NM
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

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	23-Feb-11	5441.91		13.03		5428.88	NM	NM	NM	NM	NM	NM
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-36	29-Feb-12	5441.91	13.14	13.22	0.08	5428.76	Not Sampled - NAPL Present					
TW-36	22-May-12	5441.91	13.13	13.30	0.17	5428.75	Not Sampled - NAPL Present					
TW-36	10-Aug-12	5441.91	13.32	13.72	0.40	5428.52	NM	NM	NM	NM	NM	NM
TW-36	09-Nov-12	5441.91	13.34	13.74	0.40	5428.50	NM	NM	NM	NM	NM	NM
TW-36	06-Feb-13	5441.91	13.23	13.40	0.17	5428.65	NM	NM	NM	NM	NM	NM
TW-36	14-May-13	5441.91	13.12	13.25	0.13	5428.77	NM	NM	NM	NM	NM	NM
TW-36	12-Aug-13	5441.91	13.46	13.93	0.47	5428.37	NM	NM	NM	NM	NM	NM
TW-36	03-Dec-13	5441.91	13.16	13.19	0.03	5428.74	NM	NM	NM	NM	NM	NM
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-37	28-Feb-12	5439.59		10.67		5428.92	NM	NM	NM	NM	NM	NM
TW-37	17-May-12	5439.59		10.59		5429.00	7.26	3.124	0.95	16.40	-25.8	NM
TW-37	10-Aug-12	5439.59		10.80		5428.79	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-37	09-Nov-12	5439.59		10.90		5428.69	7.60	3.374	0.13	16.17	-45.4	3.0
TW-37	06-Feb-13	5439.59		10.80		5428.79	NM	NM	NM	NM	NM	NM
TW-37	09-May-13	5439.59		10.66		5428.93	7.30	2.489	0.15	13.84	-28.3	3.0
TW-37	12-Aug-13	5439.59		11.00		5428.59	NM	NM	NM	NM	NM	NM
TW-37	03-Dec-13	5439.59		10.71		5428.88	8.23	2.447	0.21	14.61	-79.4	NM
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
TW-38	16-Nov-11	5442.11	11.68	11.83	0.15	5430.40	NM	NM	NM	NM	NM	NM
TW-38	29-Feb-12	5442.11	11.58	11.60	0.02	5430.53	NM	NM	NM	NM	NM	NM
TW-38	14-May-12	5442.11		11.56		5430.55	NM	NM	NM	NM	NM	NM
TW-38	10-Aug-12	5442.11	11.64	11.78	0.14	5430.45	NM	NM	NM	NM	NM	NM
TW-38	09-Nov-12	5442.11	11.77	11.97	0.20	5430.31	NM	NM	NM	NM	NM	NM
TW-38	06-Feb-13	5442.11	11.69	11.75	0.06	5430.41	NM	NM	NM	NM	NM	NM
TW-38	14-May-13	5442.11	11.61	11.65	0.04	5430.49	NM	NM	NM	NM	NM	NM
TW-38	12-Aug-13	5442.11	11.81	12.05	0.24	5430.26	NM	NM	NM	NM	NM	NM
TW-38	21-Nov-13	5442.11	11.68	11.73	0.05	5430.42	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-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-39	28-Feb-12	5438.43		7.87		5430.56	NM	NM	NM	NM	NM	NM
TW-39	14-May-12	5438.43		7.30		5431.13	7.17	3.934	0.56	17.39	-20.7	NM
TW-39	10-Aug-12	5438.43		7.91		5430.52	NM	NM	NM	NM	NM	NM
TW-39	09-Nov-12	5438.43		8.16		5430.27	7.52	3.510	0.07	15.11	-40.6	3.0
TW-39	06-Feb-13	5438.43		7.93		5430.50	NM	NM	NM	NM	NM	NM
TW-39	14-May-13	5438.43		8.24		5430.19	NM	NM	NM	NM	NM	NM
TW-39	12-Aug-13	5438.43		8.15		5430.28	NM	NM	NM	NM	NM	NM
TW-39	03-Dec-13	5438.43		7.91		5430.52	8.07	2.843	0.09	13.58	116.5	NM
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

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-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					
TW-40	29-Feb-12	5437.50	7.86	8.33	0.47	5429.56	Not Sampled - NAPL Present					
TW-40	14-May-12	5437.50	7.27	7.55	0.28	5430.18	Not Sampled - NAPL Present					
TW-40	10-Aug-12	5437.50	7.82	7.89	0.07	5429.67	NM	NM	NM	NM	NM	NM
TW-40	09-Nov-12	5437.50	8.24	8.38	0.14	5429.24	NM	NM	NM	NM	NM	NM
TW-40	06-Feb-13	5437.50	7.97	8.00	0.03	5429.52	NM	NM	NM	NM	NM	NM
TW-40	14-May-13	5437.50	7.83	7.85	0.02	5429.67	NM	NM	NM	NM	NM	NM
TW-40	12-Aug-13	5437.50	8.27	8.52	0.25	5429.19	NM	NM	NM	NM	NM	NM
TW-40	21-Nov-13	5437.50	7.90	7.92	0.02	5429.60	NM	NM	NM	NM	NM	NM
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-41	28-Feb-12	5434.77		6.06		5428.71	NM	NM	NM	NM	NM	NM
TW-41	21-May-12	5434.77		5.85		5428.92	7.08	4.146	0.26	16.69	-15.6	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-41	10-Aug-12	5434.77		5.67		5429.10	NM	NM	NM	NM	NM	NM
TW-41	09-Nov-12	5434.77		6.34		5428.43	7.40	3.985	0.15	14.72	-34.1	3.0
TW-41	06-Feb-13	5434.77		6.20		5428.57	NM	NM	NM	NM	NM	NM
TW-41	10-May-13	5434.77		5.85		5428.92	7.10	3.648	0.72	13.78	-17.0	3.0
TW-41	12-Aug-13	5434.77		6.11		5428.66	NM	NM	NM	NM	NM	NM
TW-41	03-Dec-13	5434.77		6.18		5428.59	7.90	4.928	0.13	12.57	38.1	NM
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-42	28-Feb-12	5433.76		6.14		5427.62	NM	NM	NM	NM	NM	NM
TW-42	21-May-12	5433.76		7.01		5426.75	7.18	4.835	0.19	14.92	-21.0	NM
TW-42	10-Aug-12	5433.76		5.79		5427.97	NM	NM	NM	NM	NM	NM
TW-42	09-Nov-12	5433.76		6.26		5427.50	7.55	3.735	1.10	8.63	-41.9	3.0
TW-42	06-Feb-13	5433.76		6.25		5427.51	NM	NM	NM	NM	NM	NM
TW-42	10-May-13	5433.76		5.76		5428.00	6.67	4.015	2.23	15.23	40.3	3.0
TW-42	12-Aug-13	5433.76		5.93		5427.83	NM	NM	NM	NM	NM	NM
TW-42	04-Dec-13	5433.76		6.05		5427.71	8.06	2.229	0.34	10.29	59.1	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-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
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-43	28-Feb-12	5440.42		12.27		5428.15	NM	NM	NM	NM	NM	NM
TW-43	21-May-12	5440.42		12.26		5428.16	7.11	4.350	0.88	15.95	-17.1	NM
TW-43	10-Aug-12	5440.42		12.48		5427.94	NM	NM	NM	NM	NM	NM
TW-43	09-Nov-12	5440.42		12.50		5427.92	7.36	4.010	1.50	12.73	-31.1	3.0
TW-43	06-Feb-13	5440.42		12.39		5428.03	NM	NM	NM	NM	NM	NM
TW-43	13-May-13	5440.42		12.24		5428.18	6.86	5.920	1.69	14.88	33.5	3.0
TW-43	12-Aug-13	5440.42		12.66		5427.76	NM	NM	NM	NM	NM	NM
TW-43	04-Dec-13	5440.42		12.28		5428.14	7.92	3.034	0.41	12.69	96.1	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

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-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-44	29-Feb-12	5444.08	14.96	16.17	1.21	5428.91	Not Sampled - NAPL Present					
TW-44	14-May-12	5444.08	14.98	16.10	1.12	5428.91	Not Sampled - NAPL Present					
TW-44	10-Aug-12	5444.08	15.10	16.48	1.38	5428.74	NM	NM	NM	NM	NM	NM
TW-44	12-Nov-12	5444.08	15.15	16.59	1.44	5428.68	NM	NM	NM	NM	NM	NM
TW-44	06-Feb-13	5444.08	15.07	16.31	1.24	5428.80	NM	NM	NM	NM	NM	NM
TW-44	14-May-13	5444.08	14.96	16.04	1.08	5428.93	NM	NM	NM	NM	NM	NM
TW-44	12-Aug-13	5444.08	15.28	16.53	1.25	5428.58	NM	NM	NM	NM	NM	NM
TW-44	21-Nov-13	5444.08	15.02	16.11	1.09	5428.87	NM	NM	NM	NM	NM	NM
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
TW-45	15-Nov-11	TBS		7.23			NM	NM	NM	NM	NM	NM
TW-45	29-Feb-12	TBS		7.02			NM	NM	NM	NM	NM	NM
TW-45	21-May-12	TBS		7.08			7.18	5.029	1.88	15.13	-21.1	NM
TW-45	10-Aug-12	TBS		7.30			NM	NM	NM	NM	NM	NM
TW-45	12-Nov-12	TBS		7.28			7.43	3.867	1.30	12.48	-35.2	3.0
TW-45	11-Feb-13	TBS		7.11			NM	NM	NM	NM	NM	NM
TW-45	13-May-13	TBS		6.95			7.08	6.765	1.13	15.23	17.6	3.0
TW-45	13-Aug-13	TBS		7.44			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	04-Dec-13	TBS		6.99			8.03	3.089	0.38	9.92	-224.0	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-46	29-Feb-12	TBS		7.36			NM	NM	NM	NM	NM	NM
TW-46	21-May-12	TBS		7.37			7.14	4.727	0.60	15.22	-18.7	NM
TW-46	10-Aug-12	TBS		7.52			NM	NM	NM	NM	NM	NM
TW-46	12-Nov-12	TBS		7.56			7.59	4.095	0.79	13.71	-44.7	3.0
TW-46	11-Feb-13	TBS		7.45			NM	NM	NM	NM	NM	NM
TW-46	14-May-13	TBS		7.26			NM	NM	NM	NM	NM	NM
TW-46	13-Aug-13	TBS		7.68			NM	NM	NM	NM	NM	NM
TW-46	04-Dec-13	TBS		7.34			8.15	3.780	0.50	10.91	-0.2	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-47	29-Feb-12	TBS		6.72			NM	NM	NM	NM	NM	NM
TW-47	22-May-12	TBS		7.84			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-47	13-Aug-12	TBS		7.15			NM	NM	NM	NM	NM	NM
TW-47	12-Nov-12	TBS		7.05			7.50	8.861	1.23	14.15	-39.7	3.0
TW-47	11-Feb-13	TBS		6.88			NM	NM	NM	NM	NM	NM
TW-47	14-May-13	TBS		7.85			NM	NM	NM	NM	NM	NM
TW-47	13-Aug-13	TBS		7.23			NM	NM	NM	NM	NM	NM
TW-47	04-Dec-13	TBS		6.83			8.15	6.577	0.52	10.17	42.6	NM
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-48	28-Feb-12	TBS		7.28			NM	NM	NM	NM	NM	NM
TW-48	22-May-12	TBS		7.08			NM	NM	NM	NM	NM	NM
TW-48	13-Aug-12	TBS	Not Measured - Root Growth at 7.0'									
TW-48	12-Nov-12	TBS	Not Measured - Root Growth at 7.0'									
TW-48	11-Feb-13	TBS	Not Measured - Root Growth at 7.0'									
TW-48	14-May-13	TBS	Not Measured - Root Growth at 7.0'									
TW-48	13-Aug-13	TBS	Not Measured - Root Growth at 7.0'									
TW-48	03-Dec-03	TBS	Not Measured - Root Growth at 7.0'									
TW-49	17-May-10	TBS		5.32			7.73	6.88	3.06	15.48	228.50	0.00
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

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	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-49	29-Feb-12	TBS		6.11			NM	NM	NM	NM	NM	NM
TW-49	22-May-12	TBS		6.10			7.08	6.360	1.35	14.30	-15.6	NM
TW-49	13-Aug-12	TBS		6.49			NM	NM	NM	NM	NM	NM
TW-49	12-Nov-12	TBS		6.41			7.28	7.350	2.72	10.35	-26.6	3.0
TW-49	11-Feb-13	TBS		6.25			NM	NM	NM	NM	NM	NM
TW-49	14-May-13	TBS		6.33			NM	NM	NM	NM	NM	NM
TW-49	13-Aug-13	TBS		6.70			NM	NM	NM	NM	NM	NM
TW-49	04-Dec-13	TBS		5.98			8.07	5.430	0.68	7.39	80.8	NM
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
TW-50	28-Feb-12	TBS		7.98			NM	NM	NM	NM	NM	NM
TW-50	22-May-12	TBS		7.58			7.15	5.354	0.45	16.25	-19.7	NM
TW-50	13-Aug-12	TBS		7.94			NM	NM	NM	NM	NM	NM
TW-50	12-Nov-12	TBS		8.28			7.56	4.756	1.59	11.69	-42.5	3.0
TW-50	11-Feb-13	TBS		8.06			NM	NM	NM	NM	NM	NM
TW-50	14-May-13	TBS		8.12			NM	NM	NM	NM	NM	NM
TW-50	13-Aug-13	TBS	8.28	8.42	0.14		NM	NM	NM	NM	NM	NM
TW-50	05-Dec-13	TBS	7.96	8.38	0.42		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-51	13-Aug-12	TBS		7.26			NM	NM	NM	NM	NM	NM
TW-51	12-Nov-12	TBS		7.22			7.31	5.519	0.34	13.70	-28.8	3.0
TW-51	11-Feb-13	TBS		7.08			NM	NM	NM	NM	NM	NM
TW-51	14-May-13	TBS		6.92			NM	NM	NM	NM	NM	NM
TW-51	13-Aug-13	TBS		7.37			NM	NM	NM	NM	NM	NM
TW-51	05-Dec-13	TBS		6.94			7.83	3.961	0.13	10.58	32.0	NM
TW-52	12-Nov-12	TBS		7.72			7.70	5.338	5.66	12.03	-50.3	2.0
TW-52	11-Feb-13	TBS		7.52			NM	NM	NM	NM	NM	NM
TW-52	13-May-13	TBS		7.33			7.20	8.553	0.81	14.93	4.8	1.0
TW-52	13-Aug-13	TBS		7.93			NM	NM	NM	NM	NM	NM
TW-52	05-Dec-13	TBS		7.31			7.90	7.811	0.22	9.19	153.3	NM
TW-53	11-Feb-13	TBS		7.24			NM	NM	NM	NM	NM	NM
TW-53	13-May-13	TBS		7.05			7.39	9.674	0.89	15.30	9.1	3.0
TW-53	13-Aug-13	TBS		7.64			NM	NM	NM	NM	NM	NM
TW-53	05-Dec-13	TBS		7.06			8.01	5.312	0.18	10.12	130.4	NM
TW-54	11-Feb-13	TBS		7.66			NM	NM	NM	NM	NM	NM
TW-54	13-May-13	TBS		7.50			7.39	7.696	0.68	14.27	2.4	3.0
TW-54	13-Aug-13	TBS		8.88			NM	NM	NM	NM	NM	NM
TW-54	06-Dec-13	TBS		7.54			7.91	3.632	0.10	9.11	79.4	NM
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

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	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-5	28-Feb-12	5428.97		5.09		5423.88	NM	NM	NM	NM	NM	NM
MW-5	22-May-12	5428.97		5.13		5423.84	NM	NM	NM	NM	NM	NM
MW-5	13-Aug-12	5428.97		5.24		5423.73	NM	NM	NM	NM	NM	NM
MW-5	12-Nov-12	5428.97		DRY			NM	NM	NM	NM	NM	NM
MW-5	11-Feb-13	5428.97		5.19		5423.78	NM	NM	NM	NM	NM	NM
MW-5	14-May-13	5428.97		DRY			NM	NM	NM	NM	NM	NM
MW-5	13-Aug-13	5428.97		5.45		5423.52	NM	NM	NM	NM	NM	NM
MW-5	05-Dec-13	5428.97		DRY			NM	NM	NM	NM	NM	NM
MW-7	17-May-10	5435.28		8.50		5426.78	6.95	6.66	3.08	13.83	217.6	3.75
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-7	28-Feb-12	5435.28		8.69		5426.59	NM	NM	NM	NM	NM	NM
MW-7	22-May-12	5435.28		8.08		5427.20	NM	NM	NM	NM	NM	NM
MW-7	13-Aug-12	5435.28		8.84		5426.44	NM	NM	NM	NM	NM	NM
MW-7	12-Nov-12	5435.28		9.09		5426.19	7.39	4.585	1.20	13.05	-33.4	3.0

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	11-Feb-13	5435.28		8.88		5426.40	NM	NM	NM	NM	NM	NM
MW-7	13-May-13	5435.28		8.76		5426.52	6.92	6.802	0.90	15.50	7.2	3.0
MW-7	13-Aug-13	5435.28		9.24		5426.04	NM	NM	NM	NM	NM	NM
MW-7	06-Dec-13	5435.28		8.72		5426.56	8.12	8.218	0.18	10.75	-141.4	NM
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
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-20	29-Feb-12	5430.45		5.99		5424.46	NM	NM	NM	NM	NM	NM
MW-20	21-May-12	5430.45		6.04		5424.41	7.09	4.748	0.38	14.15	-15.8	NM
MW-20	13-Aug-12	5430.45		6.13		5424.32	NM	NM	NM	NM	NM	NM
MW-20	12-Nov-12	5430.45		6.19		5424.26	7.33	4.164	0.39	12.81	-29.5	3.0
MW-20	11-Feb-13	5430.45		6.09		5424.36	NM	NM	NM	NM	NM	NM
MW-20	13-May-13	5430.45		5.90		5424.55	7.13	6.598	0.41	13.97	-14.4	3.0
MW-20	13-Aug-13	5430.45		6.31		5424.14	NM	NM	NM	NM	NM	NM
MW-20	06-Dec-13	5430.45		5.99		5424.46	8.01	4.657	0.10	9.49	54.1	NM
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

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	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
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
MW-21	29-Feb-12	5428.62		3.52		5425.1	NM	NM	NM	NM	NM	NM
MW-21	21-May-12	5428.62		3.50		5425.12	7.21	6.073	0.99	15.48	-23.1	NM
MW-21	13-Aug-12	5428.62		3.88		5424.74	NM	NM	NM	NM	NM	NM
MW-21	12-Nov-12	5428.62		3.86		5424.76	7.27	4.794	1.02	12.85	-26.3	3.0
MW-21	11-Feb-13	5428.62		3.69		5424.93	NM	NM	NM	NM	NM	NM
MW-21	13-May-13	5428.62		3.62		5425.00	7.22	7.792	1.33	15.19	2.1	3.0
MW-21	13-Aug-13	5428.62		4.06		5424.56	NM	NM	NM	NM	NM	NM
MW-21	06-Dec-13	5428.62		3.65		5424.97	7.92	4.301	0.13	10.40	135.5	NM

Notes: **NM** **Not measured**

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

Well ID	Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	MTBE µg/L	Naph-thalene µg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
TW-1	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-1	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-2	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-2	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-3	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-3	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-4	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-4	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-5	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-5	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-6	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-6	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-7	15-Dec-08	**67**	**1,700**	710	**4,200**	<10	**308**	15	2.1	<5.0
TW-7	19-Aug-09	3.8	11	98	15	<1.0	19	0.79	<1.0	<5.0
TW-7	18-May-11	<5.0	23	310	37	<5.0	**49**	NA	NA	NA
TW-7	17-Nov-11	1.5	19	100	45	<1.0	25	1.40	<1.0	<5.0
TW-7	17-May-12	2.5	24	370	150	<1.0	**32**	NA	NA	NA

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

Well ID	*Date Sampled*	*Benzene* µg/L	*Toluene* µg/L	*Ethyl-benzene* µg/L	*Xylenes* µg/L	*MTBE* µg/L	*Naph-thalene* µg/L	*GRO C6-C10* mg/L	*DRO C10-C22* mg/L	*MRO* mg/L
Sample Method		*EPA Method 8260*						*EPA Method 8015D*		
NM WQCC STANDARD		*10*	*750*	*750*	*620*	*100*	*30*	*NE*	*NE*	*NE*
TW-7	26-Nov-12	<5.0	<5.0	120	20	<5.0	<10	1.3	<1.0	<5.0
TW-7	9-May-13	1.0	12	280	73	<1.0	12	NA	NA	NA
TW-8	16-Dec-08	**120**	15	330	**950**	<5.0	**92**	8.9	1.4	<5.0
TW-8	19-Aug-09	**26**	<1.0	82	130	<1.0	<2.0	1.7	<1.0	<5.0
TW-8	18-May-11	**32**	<5.0	150	130	<5.0	<10	NA	NA	NA
TW-8	17-May-12	**17**	<1.0	130	46	<1.0	<2.0	NA	NA	NA
TW-8	26-Nov-12	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	0.11	<1.0	<5.0
TW-8	9-May-13	4.3	<1.0	92	40	<1.0	<2.0	NA	NA	NA
TW-8	3-Dec-13	<1.0	<1.0	1.2	<1.5	<1.0	<2.0	0.31	<1.0	<5.0
TW-9	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-9	20-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-10	16-Dec-08	1.4	<1.0	3.9	9.9	<1.0	<10	0.29	<1.0	<5.0
TW-10	20-Aug-09	<1.0	<1.0	1.1	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-11	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-11	20-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-11	17-Feb-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
TW-11	11-May-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
TW-11	17-Nov-11	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0

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

Well ID	Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	MTBE µg/L	Naph-thalene µg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
TW-12	15-Dec-08	6.9	33	670	**1,700**	<5.0	**317**	3.4	1.9	<5.0
TW-12	20-Aug-09	<1.0	<1.0	19	25	<1.0	<2.0	0.25	<1.0	<5.0
TW-12	17-Feb-10	1.3	<1.0	35	48	<1.0	2.4	0.43	<1.0	<5.0
TW-12	11-May-10	1.7	2.0	49	72	<1.0	<2.0	0.18	1.2	<5.0
TW-12	19-Aug-10	1.4	<1.0	53	65	<1.0	<2.0	0.40	<1.0	<5.0
TW-13	17-Dec-08	**Not Sampled-NAPL present**								
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**								

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

Well ID	Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	MTBE µg/L	Naph-thalene µg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
TW-15	16-Dec-08	**22**	9.2	190	10	<1.0	10	1.1	1.2	<5.0
TW-15	20-Aug-09	6.2	1.7	94	<1.5	<1.0	<2.0	0.69	<1.0	<5.0
TW-15	17-May-12	**11**	1.6	37	<2.0	<1.0	<2.0	NA	NA	NA
TW-15	9-May-13	6.9	<1.0	13	<2.0	<1.0	<2.0	NA	NA	NA
TW-16	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-16	20-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-17	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-17	21-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-18	16-Dec-08	8.9	<1.0	31	18	1.9	<10	0.70	<1.0	<5.0
TW-18	21-Aug-09	2.5	<1.0	12	<1.5	3.2	<2.0	0.11	<1.0	<5.0
TW-18	17-Feb-10	8.0	<1.0	38	12	1.2	<2.0	0.37	<1.0	<5.0
TW-18	11-May-10	3.1	<1.0	21	<2.0	2.5	<2.0	0.21	<1.0	<5.0
TW-18	16-Nov-10	1.8	5.5	15	<1.5	1.6	<2.0	0.12	<1.0	<5.0
TW-18	17-Nov-11	1.9	<1.0	13	<2.0	<1.0	<2.0	0.12	<1.0	<5.0
TW-18	17-May-12	5.3	<1.0	31	<2.0	<1.0	<2.0	NA	NA	NA
TW-18	26-Nov-12	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
TW-18	3-Dec-13	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-19	17-Dec-08	**Not Sampled-NAPL present**								
TW-19	21-Aug-09	**Not Sampled-NAPL present**								

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

Well ID	Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	MTBE µg/L	Naph-thalene µg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
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								
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								

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

Well ID	Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	MTBE µg/L	Naph-thalene µg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
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
TW-23	21-Aug-09	<1.0	<1.0	24	<1.5	<1.0	<2.0	0.34	<1.0	<5.0
TW-24	17-Dec-08	7.5	<1.0	10	<1.5	5.6	2.6	0.26	<1.0	<5.0
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
TW-24	11-May-10	9.1	<1.0	25	<2.0	3.8	3.0	0.92	8.7	<5.0
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								

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

Well ID	Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	MTBE µg/L	Naph-thalene µg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
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								
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								

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

Well ID	Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	MTBE µg/L	Naph-thalene µg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
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
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								
TW-30	18-Dec-08	<1.0	<1.0	<1.0	<1.5	24	<10	0.087	2.8	<5.0
TW-30	21-Aug-09	<1.0	<1.0	<1.0	<1.5	20	<2.0	0.055	<1.0	<5.0
TW-30	17-Feb-10	<1.0	<1.0	<1.0	<2.0	21	<2.0	0.056	<1.0	<5.0
TW-30	11-May-10	<1.0	<1.0	<1.0	<2.0	21	<2.0	0.071	<1.0	<5.0
TW-30	15-Nov-10	3.8	<1.0	<1.0	<1.5	14	<2.0	0.15	<1.0	<5.0
TW-30	17-Nov-11	4.9	<1.0	<1.0	<2.0	7.9	<2.0	0.16	<1.0	<5.0
TW-30	27-Nov-12	2.9	<1.0	<1.0	<2.0	6.3	<2.0	0.16	<1.0	<5.0
TW-30	3-Dec-13	1.4	<1.0	<1.0	<1.5	7.9	<2.0	0.056	<1.0	<5.0
TW-31	16-Dec-08	<1.0	<1.0	<1.0	<1.5	12	<10	<0.050	<1.0	<5.0
TW-31	21-Aug-09	<1.0	<1.0	<1.0	<1.5	16	<2.0	<0.050	<1.0	<5.0

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

Well ID	Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	MTBE µg/L	Naph-thalene µg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
TW-31	17-Feb-10	<1.0	<1.0	<1.0	<2.0	10	<2.0	<0.050	<1.0	<5.0
TW-31	11-May-10	<1.0	<1.0	<1.0	<2.0	9.2	<2.0	<0.050	<1.0	<5.0
TW-31	16-Nov-10	<1.0	<1.0	<1.0	<1.5	6.5	<2.0	<0.050	<1.0	<5.0
TW-31	17-Nov-11	<1.0	<1.0	<1.0	<2.0	1.7	<2.0	<0.050	<1.0	<5.0
TW-31	27-Nov-12	<1.0	<1.0	<1.0	<2.0	5.4	<2.0	<0.050	<1.0	<5.0
TW-31	3-Dec-13	<1.0	<1.0	<1.0	<1.5	2.8	<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								
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								

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

Well ID	Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	MTBE µg/L	Naph-thalene µg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
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
TW-34	24-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-34	18-Feb-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
TW-34	12-May-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
TW-34	22-Nov-11	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
TW-35	18-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
TW-35	24-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-35	18-Feb-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
TW-35	12-May-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
TW-35	17-Nov-10	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
TW-35	22-Nov-11	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
TW-36	18-Dec-08	<1.0	<1.0	16	22	<1.0	**91.9**	0.30	4.3	<5.0
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
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								

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

Well ID	Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	MTBE µg/L	Naph-thalene µg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
TW-37	17-Dec-08	**820**	<50	560	**1,800**	**180**	<500	8.4	19	<5.0
TW-37	21-Aug-09	**250**	<5.0	51	32	**180**	<10	1.7	1.2	<5.0
TW-37	18-Feb-10	**290**	<5.0	53	61	**130**	<10	2.0	1.4	<5.0
TW-37	11-May-10	**490**	<5.0	150	140	**150**	<10	3.8	4.3	<5.0
TW-37	19-Aug-10	**310**	<5.0	65	53	**140**	<10	3.2	22	9.6
TW-37	16-Nov-10	**280**	<1.0	58	46	**120**	<2.0	1.9	2.3	<5.0
TW-37	18-May-11	**420**	<5.0	21	<10	**230**	<10	NA	NA	NA
TW-37	22-Nov-11	**210**	<1.0	<1.0	5	**110**	<2.0	1.7	2	<5.0
TW-37	17-May-12	**290**	<1.0	110	98	79	2.9	NA	NA	NA
TW-37	27-Nov-12	**140**	<5.0	13	<10	**120**	<10	2.0	18	<5.0
TW-37	9-May-13	**250**	<1.0	80	2.9	83	<2.0	NA	NA	NA
TW-37	3-Dec-13	**130**	<5.0	41	11	95	<10	1.4	1.4	<5.0
TW-38	17-Dec-08	**140**	<5.0	36	220	**190**	<50	0.99	<1.0	<5.0
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
TW-38	12-May-10	**63**	<1.0	15	50	**110**	3.5	0.67	<1.0	<5.0
TW-38	19-Aug-10	**140**	<1.0	30	58	95	2.2	1.20	<1.0	<5.0
TW-38	16-Nov-10	**140**	<1.0	41	71	83	<2.0	1.1	<1.0	<5.0
TW-38	18-May-11	**37**	<5.0	6.1	22	**140**	<10	NA	NA	NA
TW-38	15-Nov-11	**Not Sampled-NAPL present**								

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

Well ID	Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	MTBE µg/L	Naph-thalene µg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
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
TW-39	17-Feb-10	2.6	<1.0	2.5	3.5	9.8	<2.0	0.45	<1.0	<5.0
TW-39	12-May-10	**17**	<1.0	32	14	19	<2.0	0.45	<1.0	<5.0
TW-39	19-Aug-10	**87**	<1.0	77	100	1.5	2.9	1.2	<1.0	<5.0
TW-39	16-Nov-10	**92**	<1.0	110	1.8	5.9	<2.0	1.4	<1.0	<5.0
TW-39	19-May-11	**41**	<5.0	65	<10	<5.0	<10	NA	NA	NA
TW-39	17-Nov-11	9	<5.0	82	<10	<5.0	<10	1.4	<1.0	<5.0
TW-39	17-May-12	3.3	<1.0	1.1	<2.0	8.5	<2.0	NA	NA	NA
TW-39	27-Nov-12	<1.0	<1.0	<1.0	<2.0	11	<2.0	0.76	<1.0	<5.0
TW-39	3-Dec-13	1.2	<1.0	<1.0	<1.5	7.1	<2.0	0.76	<1.0	<5.0
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
TW-41	24-Aug-09	**170**	6.6	400	**2,000**	24	**49**	7.0	1.1	<5.0

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

Well ID	Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	MTBE µg/L	Naph-thalene µg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
TW-41	18-Feb-10	**140**	<10	400	**2,500**	24	**49**	7.7	1.5	<5.0
TW-41	12-May-10	**180**	<10	530	**2,300**	20	**41**	6.9	<3.0	<15
TW-41	20-Aug-10	**190**	<10	420	**1,400**	24	**43**	8.2	<1.0	<5.0
TW-41	16-Nov-10	**96**	<10	480	**2,200**	17	**55**	6.6	1.4	<5.0
TW-41	18-May-11	**110**	8.5	500	**2,700**	22	**70**	NA	NA	NA
TW-41	22-Nov-11	**110**	<10	470	**1,800**	13	**68**	10	2.3	<5.0
TW-41	21-May-12	**99**	<10	530	**2,200**	16	**47**	NA	NA	NA
TW-41	27-Nov-12	**100**	<10	470	**1,800**	14	**48**	8.8	1.6	<5.0
TW-41	10-May-13	**47**	<5.0	410	**1,400**	12	**50**	NA	NA	NA
TW-41	3-Dec-13	**45**	<10	470	**1,600**	<10	**34**	8.1	4.3	<5.0
TW-42	16-Dec-08	<1.0	<1.0	31	<1.5	**130**	<10	0.18	1.2	<5.0
TW-42	24-Aug-09	<1.0	<1.0	<1.0	<1.5	70	<2.0	0.10	<1.0	<5.0
TW-42	18-Feb-10	<1.0	<1.0	<1.0	<2.0	75	<2.0	0.15	<1.0	<5.0
TW-42	12-May-10	<1.0	<1.0	<1.0	<2.0	39	<2.0	0.15	<1.0	<5.0
TW-42	20-Aug-10	<1.0	<1.0	<1.0	<2.0	57	<2.0	0.16	<1.0	<5.0
TW-42	16-Nov-10	<1.0	<1.0	<1.0	<1.5	53	<2.0	0.16	<1.0	<5.0
TW-42	18-May-11	<5.0	<5.0	<5.0	<10	**600**	<10	NA	NA	NA
TW-42	22-Nov-11	<1.0	<1.0	<1.0	<2.0	53	<2.0	0.17	<1.0	<5.0
TW-42	21-May-12	<1.0	<1.0	<1.0	<2.0	38	<2.0	NA	NA	NA
TW-42	28-Nov-12	<1.0	<1.0	<1.0	<2.0	13	<2.0	0.13	<1.0	<5.0
TW-42	10-May-13	<1.0	<1.0	<1.0	<2.0	7.9	<2.0	NA	NA	NA
TW-42	4-Dec-13	<1.0	<1.0	<1.0	<1.5	7.4	<2.0	<0.050	<1.0	<5.0

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

Well ID	Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	MTBE µg/L	Naph-thalene µg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
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
TW-43	18-Feb-10	<1.0	<1.0	<1.0	<2.0	**430**	<2.0	0.37	<1.0	<5.0
TW-43	12-May-10	<1.0	<1.0	<1.0	<2.0	**380**	<2.0	0.31	<1.0	<5.0
TW-43	20-Aug-10	<1.0	<1.0	<1.0	<2.0	**380**	<2.0	0.38	<1.0	<5.0
TW-43	16-Nov-10	<1.0	<1.0	<1.0	<1.5	**370**	<2.0	0.48	<1.0	<5.0
TW-43	22-Nov-11	<1.0	1.1	<1.0	<2.0	**460**	<2.0	0.41	<1.0	<5.0
TW-43	21-May-12	<1.0	<1.0	<1.0	<2.0	**450**	<2.0	NA	NA	NA
TW-43	28-Nov-12	<1.0	<1.0	<1.0	<2.0	**270**	<2.0	0.20	<1.0	<5.0
TW-43	13-May-13	<1.0	<1.0	<1.0	<2.0	**420**	<2.0	NA	NA	NA
TW-43	4-Dec-13	<1.0	<1.0	<1.0	<1.5	**410**	<2.0	0.29	<1.0	<5.0
TW-44	17-Dec-08	**58**	<5.0	69	340	**330**	**245**	2.0	1.8	<5.0
TW-44	24-Aug-09	**56**	<1.0	6.9	7.3	**360**	<2.0	0.20	1.2	<5.0
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

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

Well ID	Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	MTBE µg/L	Naph-thalene µg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
TW-45	20-Aug-10	<1.0	<1.0	<1.0	<2.0	**300**	<2.0	0.33	<1.0	<5.0
TW-45	17-Nov-10	<1.0	<1.0	<1.0	<1.5	**170**	<2.0	0.23	<1.0	<5.0
TW-45	18-May-11	<5.0	<5.0	<5.0	<10	**630**	<10	NA	NA	NA
TW-45	21-May-12	<1.0	<1.0	<1.0	<2.0	**230**	<2.0	NA	NA	NA
TW-45	28-Nov-12	<1.0	<1.0	<1.0	<2.0	**280**	<2.0	0.17	<1.0	<5.0
TW-45	13-May-13	<1.0	<1.0	<1.0	<2.0	99	<2.0	NA	NA	NA
TW-45	4-Dec-13	<1.0	<1.0	<1.0	<1.5	97	<2.0	0.13	<1.0	<5.0
TW-46	13-May-10	<1.0	<1.0	<1.0	<2.0	**110**	<2.0	0.14	<1.0	<5.0
TW-46	20-Aug-10	<1.0	<1.0	<1.0	<2.0	88	<2.0	0.13	<1.0	<5.0
TW-46	18-May-11	<5.0	<5.0	<5.0	<10	**160**	<10	NA	NA	NA
TW-46	22-Nov-11	<1.0	<1.0	<1.0	<2.0	35	<2.0	0.054	<1.0	<5.0
TW-46	21-May-12	<1.0	<1.0	<1.0	<2.0	74	<2.0	NA	NA	NA
TW-46	28-Nov-12	<1.0	<1.0	<1.0	<2.0	46	<2.0	<0.050	<1.0	<5.0
TW-46	4-Dec-13	<1.0	<1.0	<1.0	<1.5	7.6	<2.0	<0.050	<1.0	<5.0
TW-47	13-May-10	<1.0	<1.0	<1.0	<2.0	9.4	<2.0	<0.050	<1.0	<5.0
TW-47	20-Aug-10	<1.0	<1.0	<1.0	<2.0	18	<2.0	<0.050	<1.0	<5.0
TW-47	17-Nov-10	<1.0	<1.0	<1.0	<1.5	8.2	<2.0	<0.050	<1.0	<5.0
TW-47	22-Nov-11	<1.0	<1.0	<1.0	<2.0	1.5	<2.0	<0.050	<1.0	<5.0
TW-47	28-Nov-12	<1.0	<1.0	<1.0	<2.0	28	<2.0	<0.050	<1.0	<5.0
TW-47	4-Dec-13	<1.0	<1.0	<1.0	<1.5	1.3	<2.0	<0.050	<1.0	<5.0

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

Well ID	Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	MTBE µg/L	Naph-thalene µg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
TW-48	12-May-10	<1.0	<1.0	<1.0	<2.0	13	<2.0	0.061	<1.0	<5.0
TW-48	19-Aug-10	<1.0	<1.0	<1.0	<2.0	16	<2.0	0.067	<1.0	<5.0
TW-49	17-May-10	<1.0	<1.0	<1.0	<2.0	17	<2.0	<0.050	<1.0	<5.0
TW-49	20-Aug-10	<1.0	<1.0	<1.0	<2.0	14	<2.0	<0.050	<1.0	<5.0
TW-49	17-Nov-10	<1.0	<1.0	<1.0	<1.5	28	<2.0	0.12	<1.0	<5.0
TW-49	21-May-12	<1.0	<1.0	<1.0	<2.0	14	<2.0	NA	NA	NA
TW-49	3-Dec-12	<10	<10	<10	<20	<10	<20	<0.50	<1.0	<5.0
TW-49	4-Dec-13	<10	<10	<10	<15	11	<20	<0.50	<1.0	<5.0
TW-50	12-May-10	**72**	<10	260	**1,200**	16	**63**	7.7	4.0	<5.0
TW-50	19-Aug-10	**6.9**	<5.0	69	100	19	<10	2.4	<1.0	<5.0
TW-50	18-May-11	**13**	<5.0	150	190	<5.0	<10	NA	NA	NA
TW-50	17-Nov-11	<1.0	<1.0	14	10	18	<2.0	0.84	<1.0	<5.0
TW-50	21-May-12	2.9	<1.0	23	19	17	<2.0	NA	NA	NA
TW-50	4-Dec-12	<1.0	<1.0	2.3	3.1	19	<2.0	0.22	<1.0	<5.0
TW-51	18-Jul-12	<2.0	<2.0	4.4	<4.0	**260**	8.7	NA	NA	NA
TW-51	3-Dec-12	<1.0	<1.0	<1.0	<2.0	**340**	<2.0	0.29	<1.0	<5.0
TW-51	5-Dec-13	<1.0	<1.0	<1.0	<1.5	**300**	<2.0	0.31	<1.0	<5.0
TW-52	8-Oct-12	<1.0	<1.0	<1.0	<2.0	**180**	NA	NA	NA	NA
TW-52	3-Dec-12	<1.0	<1.0	<1.0	<2.0	**230**	<2.0	0.11	<1.0	<5.0

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

Well ID	Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	MTBE µg/L	Naph-thalene µg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
TW-52	13-May-13	<1.0	<1.0	<1.0	<2.0	**240**	<2.0	NA	NA	NA
TW-52	5-Dec-13	<1.0	<1.0	<1.0	<1.5	76	<2.0	0.075	<1.0	<5.0
TW-53	22-Jan-13	<1.0	<1.0	<1.0	<2.0	16	<2.0	NA	NA	NA
TW-53	13-May-13	<1.0	<1.0	<1.0	<2.0	14	<2.0	NA	NA	NA
TW-53	5-Dec-13	<1.0	<1.0	<1.0	<1.5	12	<2.0	<0.050	<1.0	<5.0
TW-54	22-Jan-13	<2.0	<2.0	<2.0	<4.0	19	<4.0	NA	NA	NA
TW-54	13-May-13	<1.0	<1.0	<1.0	<2.0	22	<2.0	NA	NA	NA
TW-54	6-Dec-13	<1.0	<1.0	<1.0	<1.5	21	<2.0	<0.050	<1.0	<5.0
MW-5	19-Dec-08	<1.0	<1.0	<1.0	<1.5	46	<10	0.066	<1.0	<5.0
MW-5	18-Feb-10	<1.0	<1.0	<1.0	<2.0	49	<2.0	0.12	<1.0	<5.0
MW-5	12-May-10	<1.0	<1.0	<1.0	<2.0	63	<2.0	0.10	<1.0	<5.0
MW-5	17-Nov-10	<1.0	<1.0	<1.0	<1.5	54	<2.0	0.11	<1.0	<5.0
MW-7	17-May-10	**17**	<1.0	<1.0	<2.0	23	<2.0	0.14	<1.0	<5.0
MW-7	19-Aug-10	6.9	<1.0	<1.0	<2.0	74	<2.0	0.22	<1.0	<5.0
MW-7	4-Dec-12	<1.0	<1.0	<1.0	<2.0	**120**	<2.0	0.18	<1.0	<5.0
MW-7	13-May-13	<1.0	<1.0	<1.0	<2.0	**110**	<2.0	NA	NA	NA
MW-7	6-Dec-13	1.1	<1.0	<1.0	<1.5	10	<2.0	<0.050	<1.0	<5.0
MW-20	21-Jan-09	<1.0	<1.0	<1.0	<1.5	**170**	<10	0.47	1.8	<5.0

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

Well ID	Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	MTBE µg/L	Naph-thalene µg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
MW-20	18-Feb-10	2.5	<1.0	<1.0	<2.0	**190**	<2.0	0.32	<1.0	<5.0
MW-20	13-May-10	1.7	<1.0	<1.0	<2.0	**180**	<2.0	0.60	<1.0	<5.0
MW-20	20-Aug-10	<1.0	<1.0	<1.0	<2.0	**200**	<2.0	0.50	<1.0	<5.0
MW-20	17-Nov-10	1.6	<1.0	<1.0	<1.5	**160**	<2.0	1.0	<1.0	<5.0
MW-20	18-May-11	<5.0	<5.0	<5.0	<1.5	<10	<10	NA	NA	NA
MW-20	22-Nov-11	<1.0	<1.0	<1.0	<2.0	**170**	<2.0	0.97	<1.0	<5.0
MW-20	21-May-12	<1.0	<1.0	<1.0	<2.0	**150**	<2.0	NA	NA	NA
MW-20	3-Dec-12	<1.0	<1.0	<1.0	<2.0	**190**	<2.0	0.48	<1.0	<5.0
MW-20	13-May-13	<1.0	<1.0	<1.0	<2.0	**120**	<2.0	NA	NA	NA
MW-20	6-Dec-13	<1.0	<1.0	<1.0	<1.5	**190**	<2.0	1.1	<1.0	<5.0
MW-21	19-Dec-08	<1.0	<1.0	<1.0	<1.5	**100**	<10	0.11	<1.0	<5.0
MW-21	18-Feb-10	<1.0	<1.0	<1.0	<2.0	85	<2.0	0.11	<1.0	<5.0
MW-21	13-May-10	<1.0	<1.0	<1.0	<2.0	82	<2.0	0.10	<1.0	<5.0
MW-21	20-Aug-10	<1.0	<1.0	<1.0	<2.0	**120**	<2.0	0.12	<1.0	<5.0
MW-21	17-Nov-10	<1.0	<1.0	<1.0	<1.5	83	<2.0	0.12	<1.0	<5.0
MW-21	18-May-11	<5.0	<5.0	<5.0	<1.5	**160**	<10	NA	NA	NA
MW-21	22-Nov-11	<1.0	<1.0	<1.0	<2.0	74	<2.0	0.11	<1.0	<5.0
MW-21	21-May-12	<1.0	<1.0	<1.0	<2.0	91	<2.0	NA	NA	NA
MW-21	3-Dec-12	<1.0	<1.0	<1.0	<2.0	94	<2.0	0.068	<1.0	<5.0
MW-21	13-May-13	<1.0	<1.0	<1.0	<2.0	85	<2.0	NA	NA	NA
MW-21	6-Dec-13	<1.0	<1.0	<1.0	<1.5	78	<2.0	0.082	<1.0	<5.0

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

Well ID	Date Sampled	Benzene µg/L	Toluene µg/L	Ethyl-benzene µg/L	Xylenes µg/L	MTBE µg/L	Naph-thalene µg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE

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-8	26-Nov-12	<0.020	0.32	<0.0020	0.015	<0.0050	<0.00020	<0.050	<0.0050
TW-8	3-Dec-13	<0.020	0.030	<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

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-15	20-Aug-09	<0.020	<0.020	<0.0020	<0.0060	0.0092	<0.00020	<0.050	<0.0050
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-30	27-Nov-12	0.046	1.1	<0.0020	0.027	0.012	<0.00020	<0.050	<0.0050
TW-30	3-Dec-13	0.064	0.42	<0.0020	0.0096	<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

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-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
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-41	27-Nov-12	0.048	0.59	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-41	3-Dec-13	0.036	0.21	<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

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-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
TW-50	17-Nov-11	<0020	0.10	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-52	3-Dec-12	0.035	0.85	<0.0020	0.064	0.020	<0.00020	<0.050	<0.0050
TW-53	5-Dec-13	0.28	0.33	<0.0020	0.013	<0.0050	<0.00020	<0.050	<0.0050
TW-54	6-Dec-13	0.12	0.35	<0.0020	0.024	<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	Specific Conductance	Hardness as (CaCO3)	Total Dissolved Solids
		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-7	9-May-13	NA	NA	NA	NA	NA	77	NA	**2,700**	NA	NA	**4,570**
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-8	26-Nov-12	470	49	5.1	840	1.3	160	0.74	**2,600**	5,000	1,400	**4,340**
TW-8	9-May-13	NA	NA	NA	NA	NA	150	NA	**2,100**	NA	NA	**3,730**
TW-8	3-Dec-13	470	48	5.2	800	0.80	130	0.58	**2,300**	4,500	1,400	**4,030**
TW-9	20-Aug-09	250	21	2.4	410	1.2	170	0.87	530	2,600	710	**2,070**

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	Specific Conductance	Hardness as (CaCO3)	Total Dissolved Solids
		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-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**
TW-15	20-Aug-09	460	47	2.6	1,200	0.99	140	0.74	**3,100**	5,300	1,300	**5,240**
TW-15	9-May-13	NA	NA	NA	NA	NA	140	NA	**3,000**	NA	NA	**4,840**
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-30	27-Nov-12	470	52	8.9	1,300	5.9	**970**	0.61	**2,400**	7,100	1,400	**5,440**
TW-30	3-Dec-13	480	55	7.0	1,000	<0.50	**660**	<0.50	**1,900**	6,100	1,400	**4,750**

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	Specific Conductance	Hardness as (CaCO3)	Total Dissolved Solids
		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-37	27-Nov-12	NA	NA	NA	NA	NA	190	NA	**1,700**	NA	NA	NA
TW-37	9-May-13	NA	NA	NA	NA	NA	150	NA	**1,800**	NA	NA	**3,710**
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**
TW-37	3-Dec-13	NA	NA	NA	NA	NA	150	NA	**1,400**	NA	NA	NA
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**

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	Specific Conductance	Hardness as (CaCO3)	Total Dissolved Solids
		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-41	24-Aug-09	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-41	27-Nov-12	270	57	5.8	870	<5.0	**640**	<1.0	**810**	4,900	920	**3,400**
TW-41	10-May-13	NA	NA	NA	NA	NA	**610**	NA	**1,200**	NA	NA	**4,220**
TW-41	3-Dec-13	380	68	6.2	620	0.74	**780**	<0.50	**1,200**	5,700	1,200	**4,350**
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-42	10-May-13	NA	NA	NA	NA	NA	150	NA	**2,300**	NA	NA	**4,020**
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-43	13-May-13	NA	NA	NA	NA	NA	92	NA	**2,500**	NA	NA	**4,420**
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-45	13-May-13	NA	NA	NA	NA	NA	**200**	NA	**2,100**	NA	NA	**4,120**
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	Specific Conductance	Hardness as (CaCO3)	Total Dissolved Solids
		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-47	28-Nov-12	NA	NA	NA	NA	NA	**1,100**	NA	**4,200**	NA	NA	NA
TW-47	4-Dec-13	NA	NA	NA	NA	NA	**1,100**	NA	**3,700**	NA	NA	**7,790**
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-49	4-Dec-13	NA	NA	NA	NA	NA	**880**	NA	**3,100**	NA	NA	NA
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**
TW-51	3-Dec-12	NA	NA	NA	NA	NA	**260**	NA	**2,400**	NA	NA	NA
TW-51	5-Dec-13	NA	NA	NA	NA	NA	**240**	NA	**2,700**	NA	NA	NA
TW-52	3-Dec-12	440	73	6.1	1,400	1.9	210	0.63	**3,200**	6,700	1,400	**5,180**
TW-52	13-May-13	NA	NA	NA	NA	NA	170	NA	**3,800**	NA	NA	**6,160**
TW-53	22-Jan-13	NA	NA	NA	NA	NA	200	NA	**3,300**	NA	NA	**5,730**
TW-53	13-May-13	NA	NA	NA	NA	NA	200	NA	**3,400**	NA	NA	**5,660**
TW-53	5-Dec-13	320	68	5.7	1,600	0.81	210	0.27	**3,700**	7,400	1,100	**6,200**
TW-54	22-Jan-13	NA	NA	NA	NA	NA	130	NA	**2,600**	NA	NA	**4,500**
TW-54	13-May-13	NA	NA	NA	NA	NA	110	NA	**2,600**	NA	NA	**4,400**
TW-54	6-Dec-13	320	32	7.1	1,100	0.30	150	0.26	**2,500**	5,600	930	**4,520**

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	Specific Conductance	Hardness as (CaCO3)	Total Dissolved Solids
		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-5	17-Nov-10	150	29	6.1	1,200	0.77	**310**	<2.0	**3,000**	5,400	500	**4,630**
MW-7	13-May-13	NA	NA	NA	NA	NA	510	NA	**1,600**	NA	NA	**4,020**
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-20	3-Dec-12	NA	NA	NA	NA	NA	**390**	NA	**1,700**	NA	NA	NA
MW-20	13-May-13	NA	NA	NA	NA	NA	**290**	NA	**1,300**	NA	NA	**3,750**
MW-20	6-Dec-13	NA	NA	NA	NA	NA	**520**	NA	**2,100**	NA	NA	NA
MW-21	17-Nov-10	460	64	7.4	1,400	0.87	**820**	NA	**3,500**	NA	NA	NA
MW-21	18-May-11	NA	NA	NA	NA	NA	**750**	NA	**2,700**	NA	NA	NA
MW-21	3-Dec-12	NA	NA	NA	NA	NA	**630**	NA	**1,600**	NA	NA	NA
MW-21	13-May-13	NA	NA	NA	NA	NA	**600**	NA	**1,500**	NA	NA	**4,060**
MW-21	6-Dec-13	NA	NA	NA	NA	NA	**610**	NA	**1,400**	NA	NA	NA

Notes:

<	**Analyte not detected above listed method limit**
NA	**Not Analyzed**
NE	**Not established**
mg/L	**Milligrams per liter (ppm)**
µmhos/cm	**Micromhos per centimeter**

TABLE 5
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 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			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-1	29-Feb-12	TBD		23.87	
MPE-1	25-May-12	TBD		23.78	
MPE-1	13-Aug-12	TBD		24.15	
MPE-1	19-Nov-12	TBD		24.24	
MPE-1	13-Feb-13	TBD		24.06	
MPE-1	14-May-13	TBD		23.92	
MPE-1	14-Aug-13	TBD		24.34	
MPE-1	27-Dec-13	TBD		24.19	
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-2	29-Feb-12	TBD	21.77	21.86	0.09
MPE-2	25-May-12	TBD	21.65	21.82	0.17
MPE-2	13-Aug-12	TBD	22.00	22.31	0.31
MPE-2	19-Nov-12	TBD	22.09	22.35	0.26
MPE-2	13-Feb-13	TBD	21.90	22.15	0.25
MPE-2	14-May-13	TBD	21.78	22.00	0.22
MPE-2	14-Aug-13	TBD	22.17	22.53	0.36
MPE-2	27-Dec-13	TBD	22.03	22.34	0.31
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	

TABLE 5

SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF PHASES 1 through 5 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-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-3	29-Feb-12	TBD		21.03	
MPE-3	25-May-12	TBD		20.97	
MPE-3	13-Aug-12	TBD		21.34	
MPE-3	19-Nov-12	TBD		21.43	
MPE-3	13-Feb-13	TBD		21.22	
MPE-3	14-May-13	TBD		21.10	
MPE-3	14-Aug-13	TBD		21.52	
MPE-3	27-Dec-13	TBD		21.36	
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-4	29-Feb-12	TBD		20.27	
MPE-4	25-May-12	TBD		20.14	
MPE-4	13-Aug-12	TBD		20.53	
MPE-4	19-Nov-12	TBD		20.61	
MPE-4	13-Feb-13	TBD		20.40	
MPE-4	14-May-13	TBD		20.28	
MPE-4	14-Aug-13	TBD		20.71	
MPE-4	27-Dec-13	TBD		20.54	
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
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-5	29-Feb-12	TBD	19.59	19.64	0.05

TABLE 5
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 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	25-May-12	TBD	19.47	19.63	0.16
MPE-5	13-Aug-12	TBD	19.79	20.20	0.41
MPE-5	19-Nov-12	TBD	19.84	20.45	0.61
MPE-5	13-Feb-13	TBD	19.69	20.01	0.32
MPE-5	14-May-13	TBD	19.59	19.81	0.22
MPE-5	14-Aug-13	TBD	19.92	20.63	0.71
MPE-5	27-Dec-13	TBD	19.80	20.23	0.43
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-6	29-Feb-12	TBD		19.87	
MPE-6	25-May-12	TBD	19.83	19.84	0.01
MPE-6	13-Aug-12	TBD	20.20	20.22	0.02
MPE-6	19-Nov-12	TBD	20.28	20.30	0.02
MPE-6	13-Feb-13	TBD	20.08	20.11	0.03
MPE-6	14-May-13	TBD	19.94	20.08	0.14
MPE-6	14-Aug-13	TBD	20.34	20.60	0.26
MPE-6	27-Dec-13	TBD	20.18	20.42	0.24
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-7	29-Feb-12	TBD		20.73	
MPE-7	21-May-12	TBD		20.66	
MPE-7	13-Aug-12	TBD		20.99	
MPE-7	19-Nov-12	TBD		21.08	
MPE-7	13-Feb-13	TBD		20.89	
MPE-7	14-May-13	TBD		20.76	

TABLE 5

SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF PHASES 1 through 5 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-7	14-Aug-13	TBD	21.18	21.20	0.02
MPE-7	27-Dec-13	TBD	21.02	21.04	0.02
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-8	29-Feb-12	TBD		22.00	
MPE-8	21-May-12	TBD		21.96	
MPE-8	13-Aug-12	TBD		22.30	
MPE-8	19-Nov-12	TBD		22.37	
MPE-8	13-Feb-13	TBD		22.20	
MPE-8	14-May-13	TBD		22.06	
MPE-8	14-Aug-13	TBD		22.48	
MPE-8	27-Dec-13	TBD		22.33	
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	
MPE-9	10-Nov-11	TBD		23.97	
MPE-9	29-Feb-12	TBD		23.68	
MPE-9	21-May-12	TBD		23.66	
MPE-9	13-Aug-12	TBD		24.00	
MPE-9	19-Nov-12	TBD		24.06	
MPE-9	13-Feb-13	TBD		23.89	
MPE-9	14-May-13	TBD		23.76	
MPE-9	14-Aug-13	TBD		24.18	
MPE-9	27-Dec-13	TBD		24.03	
MPE-10	03-Mar-10	TBD		23.28	
MPE-10	10-May-10	TBD		23.10	

TABLE 5
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 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-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-10	29-Feb-12	TBD		23.53	
MPE-10	21-May-12	TBD		23.47	
MPE-10	13-Aug-12	TBD		23.82	
MPE-10	19-Nov-12	TBD		23.86	
MPE-10	13-Feb-13	TBD		23.69	
MPE-10	14-May-13	TBD		23.55	
MPE-10	14-Aug-13	TBD		23.99	
MPE-10	27-Dec-13	TBD		23.82	
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-11	29-Feb-12	TBD		21.61	
MPE-11	21-May-12	TBD	NM-Roots in Well		
MPE-11	13-Aug-12	TBD	NM-Root Growth at 21.6'		
MPE-11	19-Nov-12	TBD	NM-Roots in Well		
MPE-11	13-Feb-13	TBD	NM-Root Growth at 21.6'		
MPE-11	14-May-13	TBD	Dry		
MPE-11	14-Aug-13	TBD	NM-Root Growth at 21.6'		
MPE-11	27-Dec-13	TBD	Dry		
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	

TABLE 5
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 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-12	10-Nov-11	TBD		22.83	
MPE-12	29-Feb-12	TBD		22.59	
MPE-12	21-May-12	TBD		22.57	
MPE-12	13-Aug-12	TBD	NM-Root Growth at 22.7'		
MPE-12	19-Nov-12	TBD	NM-Roots in Well		
MPE-12	13-Feb-13	TBD	NM-Root Growth at 22.5'		
MPE-12	14-May-13	TBD	Dry		
MPE-12	14-Aug-13	TBD	NM-Root Growth at 22.5'		
MPE-12	27-Dec-13	TBD	Dry		
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-13	29-Feb-12	TBD	22.97	22.99	0.02
MPE-13	21-May-12	TBD	22.91	22.97	0.06
MPE-13	13-Aug-12	TBD	23.22	23.45	0.23
MPE-13	19-Nov-12	TBD		23.23	
MPE-13	13-Feb-13	TBD	23.10	23.26	0.16
MPE-13	14-May-13	TBD	23.00	23.03	0.03
MPE-13	14-Aug-13	TBD	23.33	23.93	0.60
MPE-13	27-Dec-13	TBD		23.22	
MPE-14	03-Mar-10	TBD		21.80	
MPE-14	10-May-10	TBD		21.65	
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-14	29-Feb-12	TBD		22.05	
MPE-14	21-May-12	TBD		22.01	
MPE-14	13-Aug-12	TBD	22.30	22.55	0.25
MPE-14	19-Nov-12	TBD	23.25	23.66	0.41

TABLE 5

SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF PHASES 1 through 5 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	13-Feb-13	TBD	22.22	22.26	0.04
MPE-14	14-May-13	TBD		22.14	
MPE-14	14-Aug-13	TBD	22.50	22.63	0.13
MPE-14	27-Dec-13	TBD	22.35	22.37	0.02
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-16	29-Feb-12	TBD		20.19	
MPE-16	21-May-12	TBD		20.12	
MPE-16	13-Aug-12	TBD		20.48	
MPE-16	19-Nov-12	TBD		20.55	
MPE-16	13-Feb-13	TBD		20.36	
MPE-16	14-May-13	TBD		20.24	
MPE-16	14-Aug-13	TBD		20.65	
MPE-16	27-Dec-13	TBD		20.49	
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-17	29-Feb-12	TBD		20.49	
MPE-17	23-May-12	TBD	20.34	20.36	0.02
MPE-17	13-Aug-12	TBD	20.64	20.65	0.01
MPE-17	19-Nov-12	TBD	20.73	20.74	0.01
MPE-17	13-Feb-13	TBD		20.54	
MPE-17	14-May-13	TBD	20.44	20.46	0.02
MPE-17	14-Aug-13	TBD	20.82	20.86	0.04
MPE-17	27-Dec-13	TBD		20.68	

TABLE 5

SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF PHASES 1 through 5 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-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-18	29-Feb-12	TBD		19.48	
MPE-18	23-May-12	TBD		19.49	
MPE-18	13-Aug-12	TBD		19.78	
MPE-18	19-Nov-12	TBD		19.86	
MPE-18	13-Feb-13	TBD		19.67	
MPE-18	14-May-13	TBD		19.56	
MPE-18	14-Aug-13	TBD		19.96	
MPE-18	27-Dec-13	TBD		19.80	
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	
MPE-19	25-Aug-11	TBD		19.42	
MPE-19	10-Nov-11	TBD		19.47	
MPE-19	29-Feb-12	TBD		19.28	
MPE-19	23-May-12	TBD		19.23	
MPE-19	13-Aug-12	TBD		19.55	
MPE-19	19-Nov-12	TBD		19.62	
MPE-19	13-Feb-13	TBD		19.41	
MPE-19	14-May-13	TBD		19.31	
MPE-19	14-Aug-13	TBD		19.73	
MPE-19	27-Dec-13	TBD		19.53	
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	

TABLE 5
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 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-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-20	29-Feb-12	TBD		18.98	
MPE-20	23-May-12	TBD		18.96	
MPE-20	13-Aug-12	TBD		19.25	
MPE-20	19-Nov-12	TBD		19.34	
MPE-20	13-Feb-13	TBD		19.14	
MPE-20	14-May-13	TBD		19.09	
MPE-20	14-Aug-13	TBD		19.45	
MPE-20	27-Dec-13	TBD		19.25	
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-21	29-Feb-12	TBD	20.13	20.42	0.29
MPE-21	23-May-12	TBD	20.08	20.45	0.37
MPE-21	13-Aug-12	TBD	20.33	20.85	0.52
MPE-21	19-Nov-12	TBD	20.28	21.55	1.27
MPE-21	13-Feb-13	TBD	20.15	21.16	1.01
MPE-21	14-May-13	TBD	20.10	21.05	0.95
MPE-21	14-Aug-13	TBD	20.36	21.75	1.39
MPE-21	27-Dec-13	TBD	20.26	21.24	0.98
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	

TABLE 5

SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF PHASES 1 through 5 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-22	25-Aug-11	TBD	21.11	21.15	0.04
MPE-22	10-Nov-11	TBD		21.28	
MPE-22	29-Feb-12	TBD		20.97	
MPE-22	23-May-12	TBD		20.96	
MPE-22	13-Aug-12	TBD	21.18	21.56	0.38
MPE-22	19-Nov-12	TBD	21.22	21.84	0.62
MPE-22	13-Feb-13	TBD	21.10	21.37	0.27
MPE-22	14-May-13	TBD	21.02	21.33	0.31
MPE-22	14-Aug-13	TBD	21.26	22.20	0.94
MPE-22	27-Dec-13	TBD	21.20	21.53	0.33
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	
MPE-23	25-Aug-11	TBD		20.33	
MPE-23	10-Nov-11	TBD		20.25	
MPE-23	29-Feb-12	TBD		20.09	
MPE-23	23-May-12	TBD		20.96	
MPE-23	13-Aug-12	TBD		21.28	
MPE-23	19-Nov-12	TBD		21.41	
MPE-23	13-Feb-13	TBD		21.18	
MPE-23	14-May-13	TBD		21.09	
MPE-23	14-Aug-13	TBD		21.46	
MPE-23	27-Dec-13	TBD	21.28	21.31	0.03
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-24	29-Feb-12	TBD		22.98	
MPE-24	23-May-12	TBD		22.90	
MPE-24	13-Aug-12	TBD		23.20	

TABLE 5

SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF PHASES 1 through 5 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-24	19-Nov-12	TBD		23.27	
MPE-24	14-May-13	TBD		23.00	
MPE-24	14-Aug-13	TBD	23.36	23.51	0.15
MPE-24	27-Dec-13	TBD	23.18	23.39	0.21
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-25	29-Feb-12	TBD		23.26	
MPE-25	23-May-12	TBD		23.23	
MPE-25	13-Aug-12	TBD		23.59	
MPE-25	19-Nov-12	TBD		23.62	
MPE-25	13-Feb-13	TBD		23.45	
MPE-25	14-May-13	TBD		23.35	
MPE-25	14-Aug-13	TBD	23.75	23.77	0.02
MPE-25	27-Dec-13	TBD	23.55	23.57	0.02
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-26	29-Feb-12	TBD	22.89	23.95	1.06
MPE-26	23-May-12	TBD	23.00	23.28	0.28
MPE-26	13-Aug-12	TBD	23.28	24.25	0.97
MPE-26	19-Nov-12	TBD	23.22	24.29	1.07
MPE-26	13-Feb-13	TBD	23.10	24.50	1.40
MPE-26	14-May-13	TBD	23.02	23.86	0.84
MPE-26	14-Aug-13	TBD	23.42	24.45	1.03

TABLE 5
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 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-26	27-Dec-13	TBD	23.22	24.14	0.92
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	
MPE-27	29-Feb-12	TBD		22.06	
MPE-27	23-May-12	TBD		22.15	
MPE-27	13-Aug-12	TBD	NM-Root Growth at 22.2'		
MPE-27	19-Nov-12	TBD	NM-Roots in Well		
MPE-27	13-Feb-13	TBD	NM-Root Growth at 22'		
MPE-27	14-May-13	TBD	Dry		
MPE-27	14-Aug-13	TBD	NM-Root Growth at 22'		
MPE-27	27-Dec-13	TBD	Dry		
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-28	29-Feb-12	TBD		21.74	
MPE-28	23-May-12	TBD		21.84	
MPE-28	13-Aug-12	TBD		22.18	
MPE-28	19-Nov-12	TBD	NM-Roots in Well		
MPE-28	13-Feb-13	TBD	NM-Root Growth at 22'		
MPE-28	14-May-13	TBD	Dry		
MPE-28	14-Aug-13	TBD	NM-Root Growth at 22'		
MPE-28	27-Dec-13	TBD	Dry		
MPE-29	03-Mar-10	TBD		20.54	
MPE-29	10-May-10	TBD		20.39	
MPE-29	17-Aug-10	TBD		20.73	

TABLE 5

SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF PHASES 1 through 5 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-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-29	29-Feb-12	TBD		20.87	
MPE-29	23-May-12	TBD		20.84	
MPE-29	13-Aug-12	TBD		21.11	
MPE-29	19-Nov-12	TBD	NM-Roots in Well		
MPE-29	13-Feb-13	TBD	NM-Root Growth at 21'		
MPE-29	14-May-13	TBD	Dry		
MPE-29	14-Aug-13	TBD	NM-Root Growth at 20.6'		
MPE-29	27-Dec-13	TBD	Dry		
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-30	29-Feb-12	TBD		21.36	
MPE-30	23-May-12	TBD		21.46	
MPE-30	13-Aug-12	TBD	NM-Root Growth at 21.4'		
MPE-30	19-Nov-12	TBD	NM-Roots in Well		
MPE-30	13-Feb-13	TBD	NM-Root Growth at 21'		
MPE-30	14-May-13	TBD	Dry		
MPE-30	14-Aug-13	TBD	NM-Root Growth at 21.4'		
MPE-30	27-Dec-13	TBD	Dry		
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	

TABLE 5

SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF PHASES 1 through 5 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-31	29-Feb-12	TBD		22.66	
MPE-31	23-May-12	TBD		22.71	
MPE-31	13-Aug-12	TBD		23.00	
MPE-31	19-Nov-12	TBD	NM-Roots in Well		
MPE-31	21-Feb-13	TBD	NM-Root Growth at 22.6'		
MPE-31	14-May-13	TBD		22.80	
MPE-31	14-Aug-13	TBD	NM-Root Growth at 22.6'		
MPE-31	27-Dec-13	TBD	Dry		
MPE-33	03-Mar-10	TBD		22.34	
MPE-33	10-May-10	TBD		22.19	
MPE-33	17-Aug-10	TBD		22.39	
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-33	29-Feb-12	TBD	22.54	22.73	0.19
MPE-33	23-May-12	TBD	22.51	22.59	0.08
MPE-33	13-Aug-12	TBD	22.73	23.41	0.68
MPE-33	19-Nov-12	TBD	21.80	22.36	0.56
MPE-33	21-Feb-13	TBD	22.66	23.02	0.36
MPE-33	14-May-13	TBD	22.60	22.84	0.24
MPE-33	14-Aug-13	TBD	22.91	23.50	0.59
MPE-33	27-Dec-13	TBD	22.78	23.13	0.35
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-34	29-Feb-12	TBD		22.44	
MPE-34	23-May-12	TBD		22.38	
MPE-34	13-Aug-12	TBD		22.66	
MPE-34	19-Nov-12	TBD	22.61	23.25	0.64
MPE-34	21-Feb-13	TBD	22.45	22.95	0.50

TABLE 5

SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF PHASES 1 through 5 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-34	14-May-13	TBD	22.40	22.86	0.46
MPE-34	14-Aug-13	TBD	22.66	23.62	0.96
MPE-34	27-Dec-13	TBD	22.56	23.15	0.59
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-35	29-Feb-12	TBD	21.00	21.09	0.09
MPE-35	23-May-12	TBD	20.88	21.12	0.24
MPE-35	13-Aug-12	TBD	21.05	21.95	0.90
MPE-35	19-Nov-12	TBD	21.13	22.00	0.87
MPE-35	21-Feb-13	TBD	21.05	21.38	0.33
MPE-35	14-May-13	TBD	21.02	21.28	0.26
MPE-35	14-Aug-13	TBD	21.22	22.19	0.97
MPE-35	27-Dec-13	TBD	21.15	21.53	0.38
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-36	29-Feb-12	TBD	20.13	20.37	0.24
MPE-36	23-May-12	TBD	20.07	20.21	0.14
MPE-36	13-Aug-12	TBD	20.32	20.72	0.40
MPE-36	19-Nov-12	TBD	20.35	20.97	0.62
MPE-36	21-Feb-13	TBD	20.23	20.53	0.30
MPE-36	14-May-13	TBD	20.22	20.40	0.18

TABLE 5

SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF PHASES 1 through 5 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-36	14-Aug-13	TBD	20.44	21.15	0.71
MPE-36	27-Dec-13	TBD	20.33	20.68	0.35
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	
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-37	29-Feb-12	TBD		20.52	
MPE-37	23-May-12	TBD		20.49	
MPE-37	13-Aug-12	TBD		20.76	
MPE-37	19-Nov-12	TBD	20.84	20.88	0.04
MPE-37	21-Feb-13	TBD		20.65	
MPE-37	14-May-13	TBD		20.65	
MPE-37	14-Aug-13	TBD	20.85	21.42	0.57
MPE-37	27-Dec-13	TBD	20.52	21.75	1.23
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
MPE-38	29-Feb-12	TBD	20.03	20.05	0.02
MPE-38	23-May-12	TBD	19.96	20.05	0.09
MPE-38	13-Aug-12	TBD	20.24	20.40	0.16
MPE-38	19-Nov-12	TBD	20.34	20.40	0.06
MPE-38	21-Feb-13	TBD	20.12	20.13	0.01
MPE-38	14-May-13	TBD	20.13	20.15	0.02
MPE-38	14-Aug-13	TBD	20.45	20.52	0.07
MPE-38	27-Dec-13	TBD		20.26	

TABLE 5
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 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 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-39	29-Feb-12	TBD		17.65	
MPE-39	23-May-12	TBD		17.63	
MPE-39	13-Aug-12	TBD		17.91	
MPE-39	19-Nov-12	TBD		17.99	
MPE-39	21-Feb-13	TBD		17.88	
MPE-39	14-May-13	TBD		17.81	
MPE-39	14-Aug-13	TBD		18.13	
MPE-39	27-Dec-13	TBD		17.88	
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-40	29-Feb-12	TBD		17.85	
MPE-40	23-May-12	TBD		18.50	
MPE-40	13-Aug-12	TBD		18.12	
MPE-40	19-Nov-12	TBD		18.21	
MPE-40	21-Feb-13	TBD		17.99	
MPE-40	14-May-13	TBD		18.01	
MPE-40	14-Aug-13	TBD		18.34	
MPE-40	27-Dec-13	TBD		18.10	
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 GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF PHASES 1 through 5 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-41	29-Feb-12	TBD		18.52	
MPE-41	23-May-12	TBD		19.25	
MPE-41	13-Aug-12	TBD		18.78	
MPE-41	19-Nov-12	TBD		18.86	
MPE-41	21-Feb-13	TBD		18.67	
MPE-41	14-May-13	TBD		18.68	
MPE-41	14-Aug-13	TBD		19.00	
MPE-41	27-Dec-13	TBD		18.77	
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-42	29-Feb-12	TBD		19.25	
MPE-42	23-May-12	TBD		20.09	
MPE-42	13-Aug-12	TBD		19.54	
MPE-42	19-Nov-12	TBD	19.46	20.28	0.82
MPE-42	21-Feb-13	TBD	19.28	20.00	0.72
MPE-42	14-May-13	TBD	19.24	20.20	0.96
MPE-42	14-Aug-13	TBD	19.42	21.00	1.58
MPE-42	27-Dec-13	TBD	19.32	20.39	1.07
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-43	29-Feb-12	TBD		20.16	
MPE-43	23-May-12	TBD	20.18	20.80	0.62
MPE-43	13-Aug-12	TBD		20.38	
MPE-43	19-Nov-12	TBD		20.47	
MPE-43	21-Feb-13	TBD		20.27	

TABLE 5
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 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-43	14-May-13	TBD		20.28	
MPE-43	14-Aug-13	TBD		20.59	
MPE-43	27-Dec-13	TBD	20.35	20.55	0.20
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-44	29-Feb-12	TBD	20.24	21.20	0.96
MPE-44	23-May-12	TBD	20.41	20.50	0.09
MPE-44	13-Aug-12	TBD	20.36	21.30	0.94
MPE-44	19-Nov-12	TBD	20.40	21.54	1.14
MPE-44	21-Feb-13	TBD	20.30	21.08	0.78
MPE-44	14-May-13	TBD	20.30	20.95	0.65
MPE-44	14-Aug-13	TBD	20.53	21.59	1.06
MPE-44	27-Dec-13	TBD	20.44	21.05	0.61
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-45	29-Feb-12	TBD	20.45	20.77	0.32
MPE-45	23-May-12	TBD		21.52	
MPE-45	13-Aug-12	TBD	20.60	21.19	0.59
MPE-45	19-Nov-12	TBD	20.63	21.41	0.78
MPE-45	21-Feb-13	TBD	20.52	20.86	0.34
MPE-45	14-May-13	TBD	20.52	20.62	0.10
MPE-45	14-Aug-13	TBD	20.70	21.80	1.10
MPE-45	27-Dec-13	TBD	20.61	21.11	0.50
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	

TABLE 5

SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF PHASES 1 through 5 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	03-Mar-11	TBD	NM-Attached to RSI Unit		
MPE-46	19-May-11	TBD		21.28	
MPE-46	25-Aug-11	TBD		21.72	
MPE-46	15-Nov-11	TBD		21.53	
MPE-46	29-Feb-12	TBD		21.25	
MPE-46	23-May-12	TBD	20.95	21.58	0.63
MPE-46	13-Aug-12	TBD		21.81	
MPE-46	19-Nov-12	TBD		21.82	
MPE-46	21-Feb-13	TBD		21.64	
MPE-46	14-May-13	TBD		21.58	
MPE-46	14-Aug-13	TBD		21.98	
MPE-46	27-Dec-13	TBD		21.76	
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-47	29-Feb-12	TBD	20.93	21.19	0.26
MPE-47	23-May-12	TBD		19.24	
MPE-47	13-Aug-12	TBD	21.15	22.42	1.27
MPE-47	19-Nov-12	TBD	21.12	22.15	1.03
MPE-47	21-Feb-13	TBD	21.01	21.60	0.59
MPE-47	14-May-13	TBD	20.97	21.50	0.53
MPE-47	14-Aug-13	TBD	21.29	22.65	1.36
MPE-47	27-Dec-13	TBD	21.11	21.84	0.73
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-48	29-Feb-12	TBD		20.14	
MPE-48	23-May-12	TBD		19.52	
MPE-48	13-Aug-12	TBD		20.55	

TABLE 5

SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF PHASES 1 through 5 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-48	19-Nov-12	TBD	NM-Roots in Well		
MPE-48	21-Feb-13	TBD	NM-Root Growth at 20'		
MPE-48	14-May-13	TBD	Dry		
MPE-48	14-Aug-13	TBD	NM-Root Growth at 20'		
MPE-48	27-Dec-13	TBD	Dry		
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-49	29-Feb-12	TBD		19.34	
MPE-49	23-May-12	TBD	20.56	20.82	0.26
MPE-49	13-Aug-12	TBD		19.98	
MPE-49	19-Nov-12	TBD	NM-Roots in Well		
MPE-49	21-Feb-13	TBD		19.49	
MPE-49	14-May-13	TBD		19.45	
MPE-49	14-Aug-13	TBD	NM-Root Growth at 20'		
MPE-49	27-Dec-13	TBD		19.66	
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-50	29-Feb-12	TBD	20.52	20.75	0.23
MPE-50	23-May-12	TBD		21.01	
MPE-50	13-Aug-12	TBD	20.89	21.26	0.37
MPE-50	19-Nov-12	TBD	20.86	21.13	0.27
MPE-50	21-Feb-13	TBD	20.63	21.10	0.47
MPE-50	14-May-13	TBD	20.63	21.08	0.45
MPE-50	14-Aug-13	TBD	21.04	21.60	0.56
MPE-50	06-Jan-14	TBD	20.77	21.17	0.40
MPE-51	18-Jun-10	TBD		20.70	

TABLE 5

SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF PHASES 1 through 5 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	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	
MPE-51	25-Aug-11	TBD		21.27	
MPE-51	15-Nov-11	TBD		21.21	
MPE-51	29-Feb-12	TBD		21.05	
MPE-51	25-May-12	TBD	20.74	21.24	0.50
MPE-51	13-Aug-12	TBD		21.30	
MPE-51	20-Nov-12	TBD		21.35	
MPE-51	21-Feb-13	TBD		21.17	
MPE-51	14-May-13	TBD		21.16	
MPE-51	14-Aug-13	TBD		21.48	
MPE-51	06-Jan-14	TBD	21.27	21.34	0.07
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-52	29-Feb-12	TBD	20.73	21.13	0.40
MPE-52	25-May-12	TBD	19.49	19.93	0.44
MPE-52	13-Aug-12	TBD	21.04	21.46	0.42
MPE-52	20-Nov-12	TBD	21.08	21.62	0.54
MPE-52	21-Feb-13	TBD	20.93	21.10	0.17
MPE-52	14-May-13	TBD	20.97	21.06	0.09
MPE-52	14-Aug-13	TBD	21.15	21.91	0.76
MPE-52	06-Jan-14	TBD	21.04	21.30	0.26
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-53	29-Feb-12	TBD	19.47	20.13	0.66

TABLE 5
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 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-53	25-May-12	TBD	19.22	19.33	0.11
MPE-53	14-Aug-12	TBD	19.70	20.53	0.83
MPE-53	20-Nov-12	TBD	19.75	20.66	0.91
MPE-53	21-Feb-13	TBD	19.62	20.18	0.56
MPE-53	14-May-13	TBD	19.68	20.06	0.38
MPE-53	14-Aug-13	TBD	19.85	20.95	1.10
MPE-53	06-Jan-14	TBD	19.71	20.35	0.64
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-54	29-Feb-12	TBD	19.26	19.35	0.09
MPE-54	25-May-12	TBD		18.71	
MPE-54	14-Aug-12	TBD	19.40	20.18	0.78
MPE-54	20-Nov-12	TBD	19.45	20.31	0.86
MPE-54	21-Feb-13	TBD	19.35	19.77	0.42
MPE-54	14-May-13	TBD	19.42	19.69	0.27
MPE-54	14-Aug-13	TBD	19.58	20.64	1.06
MPE-54	06-Jan-14	TBD	19.45	19.80	0.35
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-55	29-Feb-12	TBD		18.73	
MPE-55	25-May-12	TBD		14.14	
MPE-55	14-Aug-12	TBD		19.00	
MPE-55	20-Nov-12	TBD		19.06	
MPE-55	21-Feb-13	TBD		18.87	
MPE-55	14-May-13	TBD		18.93	
MPE-55	14-Aug-13	TBD		19.22	
MPE-55	06-Jan-14	TBD		18.96	

TABLE 5

SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF PHASES 1 through 5 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	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	
MPE-56	25-Aug-11	TBD		14.28	
MPE-56	15-Nov-11	TBD		14.30	
MPE-56	29-Feb-12	TBD		14.22	
MPE-56	25-May-12	TBD		14.83	
MPE-56	14-Aug-12	TBD		14.41	
MPE-56	20-Nov-12	TBD		14.49	
MPE-56	21-Feb-13	TBD		14.29	
MPE-56	14-May-13	TBD		14.35	
MPE-56	14-Aug-13	TBD		14.65	
MPE-56	06-Jan-14	TBD		14.37	
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-57	29-Feb-12	TBD		14.14	
MPE-57	25-May-12	TBD		15.08	
MPE-57	14-Aug-12	TBD		15.10	
MPE-57	20-Nov-12	TBD		15.18	
MPE-57	21-Feb-13	TBD		14.97	
MPE-57	14-May-13	TBD		15.02	
MPE-57	14-Aug-13	TBD		15.33	
MPE-57	06-Jan-14	TBD		15.08	
Phase 4 Wells					
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	

TABLE 5
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 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-58	15-Nov-11	TBD		15.32	
MPE-58	29-Feb-12	TBD		15.09	
MPE-58	25-May-12	TBD		13.79	
MPE-58	14-Aug-12	TBD		15.34	
MPE-58	20-Nov-12	TBD		15.41	
MPE-58	21-Feb-13	TBD		15.21	
MPE-58	14-May-13	TBD		15.26	
MPE-58	14-Aug-13	TBD		15.56	
MPE-58	06-Jan-14	TBD		15.29	
MPE-59	25-May-12	TBD		14.08	
MPE-59	14-Aug-12	TBD		14.06	
MPE-59	20-Nov-12	TBD		14.12	
MPE-59	21-Feb-13	TBD		13.93	
MPE-59	14-May-13	TBD		13.99	
MPE-59	14-Aug-13	TBD		14.28	
MPE-59	06-Jan-14	TBD		13.99	
MPE-60	25-May-12	TBD		13.88	
MPE-60	14-Aug-12	TBD		14.34	
MPE-60	20-Nov-12	TBD		14.43	
MPE-60	21-Feb-13	TBD		14.22	
MPE-60	14-May-13	TBD		14.30	
MPE-60	14-Aug-13	TBD		14.58	
MPE-60	06-Jan-14	TBD		14.30	
MPE-61	25-May-12	TBD		14.13	
MPE-61	14-Aug-12	TBD		14.15	
MPE-61	20-Nov-12	TBD		14.25	
MPE-61	22-Feb-13	TBD		14.07	
MPE-61	14-May-13	TBD		14.14	
MPE-61	14-Aug-13	TBD		14.41	
MPE-61	06-Jan-14	TBD		14.13	
MPE-62	25-May-12	TBD	14.86	15.36	0.50
MPE-62	14-Aug-12	TBD		14.40	
MPE-62	20-Nov-12	TBD		14.31	
MPE-62	22-Feb-13	TBD		14.13	
MPE-62	14-May-13	TBD		14.20	

TABLE 5
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 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-62	14-Aug-13	TBD		14.49	
MPE-62	06-Jan-14	TBD		14.20	
MPE-63	25-May-12	TBD		15.34	
MPE-63	14-Aug-12	TBD	15.09	15.93	0.84
MPE-63	20-Nov-12	TBD	15.16	16.17	1.01
MPE-63	22-Feb-13	TBD	15.03	15.70	0.67
MPE-63	14-May-13	TBD	15.12	15.74	0.62
MPE-63	14-Aug-13	TBD	15.33	16.42	1.09
MPE-63	06-Jan-14	TBD	15.10	15.79	0.69
MPE-64	25-May-12	TBD	15.98	16.00	0.02
MPE-64	14-Aug-12	TBD	15.54	15.55	0.01
MPE-64	20-Nov-12	TBD		15.60	
MPE-64	22-Feb-13	TBD	15.42	15.51	0.09
MPE-64	14-May-13	TBD	15.46	15.66	0.20
MPE-64	14-Aug-13	TBD	15.60	16.64	1.04
MPE-64	06-Jan-14	TBD	15.45	15.91	0.46
MPE-65	25-May-12	TBD		16.16	
MPE-65	14-Aug-12	TBD	16.28	16.31	0.03
MPE-65	20-Nov-12	TBD	16.28	16.54	0.26
MPE-65	22-Feb-13	TBD	16.18	16.24	0.06
MPE-65	14-May-13	TBD	16.19	16.25	0.06
MPE-65	14-Aug-13	TBD	16.42	16.75	0.33
MPE-65	06-Jan-14	TBD	16.21	16.55	0.34
MPE-66	25-May-12	TBD	17.40	17.41	0.01
MPE-66	14-Aug-12	TBD	16.33	17.15	0.82
MPE-66	20-Nov-12	TBD	16.40	17.12	0.72
MPE-66	22-Feb-13	TBD	16.31	16.67	0.36
MPE-66	14-May-13	TBD	16.35	16.40	0.05
MPE-66	14-Aug-13	TBD	16.51	17.40	0.89
MPE-66	06-Jan-14	TBD	16.43	16.62	0.19
MPE-67	25-May-12	TBD		15.67	
MPE-67	14-Aug-12	TBD		17.71	
MPE-67	20-Nov-12	TBD		17.74	
MPE-67	22-Feb-13	TBD	17.60	17.65	0.05

TABLE 5
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 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-67	14-May-13	TBD	17.48	18.08	0.60
MPE-67	14-Aug-13	TBD	17.75	18.73	0.98
MPE-67	06-Jan-14	TBD	16.60	17.33	0.73
MPE-68	14-Aug-12	TBD		16.09	
MPE-68	20-Nov-12	TBD		15.91	
MPE-68	22-Feb-13	TBD		15.69	
MPE-68	14-May-13	TBD	15.61	15.62	0.01
MPE-68	14-Aug-13	TBD		16.30	
MPE-68	06-Jan-14	TBD		15.85	
MPE-69	14-Aug-12	TBD		15.50	
MPE-69	20-Nov-12	TBD		15.45	
MPE-69	22-Feb-13	TBD		15.28	
MPE-69	14-May-13	TBD		15.25	
MPE-69	14-Aug-13	TBD		15.71	
MPE-69	06-Jan-14	TBD		15.40	
MPE-70	14-Aug-12	TBD	15.67	16.01	0.34
MPE-70	20-Nov-12	TBD	15.65	16.40	0.75
MPE-70	22-Feb-13	TBD	15.52	16.25	0.73
MPE-70	14-May-13	TBD	15.60	16.15	0.55
MPE-70	14-Aug-13	TBD	15.80	16.68	0.88
MPE-70	06-Jan-14	TBD	15.67	16.12	0.45
MPE-71	22-Jun-12	TBD	16.04	16.06	0.02
MPE-71	14-Aug-12	TBD	15.68	16.23	0.55
MPE-71	20-Nov-12	TBD	15.72	16.51	0.79
MPE-71	22-Feb-13	TBD	15.63	16.23	0.60
MPE-71	14-May-13	TBD	15.73	16.40	0.67
MPE-71	14-Aug-13	TBD	15.85	16.85	1.00
MPE-71	06-Jan-14	TBD	15.77	16.12	0.35
MPE-72	22-Jun-12	TBD	15.79	16.76	0.97
MPE-72	14-Aug-12	TBD		16.29	
MPE-72	21-Nov-12	TBD		16.34	
MPE-72	22-Feb-13	TBD	16.21	16.22	0.01
MPE-72	14-May-13	TBD	16.25	16.68	0.43
MPE-72	14-Aug-13	TBD	16.50	16.89	0.39

TABLE 5
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 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-72	06-Jan-14	TBD	16.26	16.40	0.14
MPE-73	22-Jun-12	TBD	14.68	15.65	0.97
MPE-73	13-Aug-12	TBD	16.59	17.93	1.34
MPE-73	20-Nov-12	TBD	16.00	17.52	1.52
MPE-73	22-Feb-13	TBD	15.90	17.02	1.12
MPE-73	14-May-13	TBD	16.06	16.12	0.06
MPE-73	14-Aug-13	TBD	16.21	18.09	1.88
MPE-73	06-Jan-14	TBD	15.98	17.04	1.06
MPE-74	22-Jun-12	TBD	13.68	14.56	0.88
MPE-74	13-Aug-12	TBD	14.86	15.72	0.86
MPE-74	20-Nov-12	TBD	14.91	16.20	1.29
MPE-74	22-Feb-13	TBD	14.80	15.80	1.00
MPE-74	14-May-13	TBD	14.88	15.48	0.60
MPE-74	14-Aug-13	TBD	15.27	16.28	1.01
MPE-74	06-Jan-14	TBD	14.91	15.73	0.82
MPE-75	22-Jun-12	TBD		12.91	
MPE-75	13-Aug-12	TBD	13.88	14.88	1.00
MPE-75	20-Nov-12	TBD	13.95	14.85	0.90
MPE-75	22-Feb-13	TBD	13.80	14.62	0.82
MPE-75	14-May-13	TBD	13.89	14.44	0.55
MPE-75	14-Aug-13	TBD	14.25	15.18	0.93
MPE-75	06-Jan-14	TBD	13.94	14.53	0.59
MPE-76	22-Jun-12	TBD		12.47	
MPE-76	13-Aug-12	TBD	13.03	13.37	0.34
MPE-76	20-Nov-12	TBD	13.12	13.40	0.28
MPE-76	22-Feb-13	TBD	13.01	13.03	0.02
MPE-76	14-May-13	TBD	13.07	13.22	0.15
MPE-76	14-Aug-13	TBD	13.29	13.85	0.56
MPE-76	06-Jan-14	TBD	13.03	13.18	0.15
MPE-77	22-Jun-12	TBD	11.33	11.36	0.03
MPE-77	13-Aug-12	TBD		12.65	
MPE-77	20-Nov-12	TBD		12.70	
MPE-77	22-Feb-13	TBD	12.53	12.67	0.14
MPE-77	14-May-13	TBD	12.59	12.73	0.14

TABLE 5

SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF PHASES 1 through 5 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-77	14-Aug-13	TBD	12.85	13.15	0.30
MPE-77	06-Jan-14	TBD	12.55	12.77	0.22
MPE-78	22-Jun-12	TBD		11.33	
MPE-78	13-Aug-12	TBD	11.51	11.53	0.02
MPE-78	20-Nov-12	TBD		11.57	
MPE-78	22-Feb-13	TBD	11.37	11.60	0.23
MPE-78	14-May-13	TBD	11.40	11.74	0.34
MPE-78	14-Aug-13	TBD	11.61	12.41	0.80
MPE-78	06-Jan-14	TBD	11.43	11.56	0.13
Phase 5 Wells					
MPE-79	13-Aug-12	TBD		11.50	
MPE-79	20-Nov-12	TBD		11.49	
MPE-79	22-Feb-13	TBD		11.28	
MPE-79	14-May-13	TBD		11.35	
MPE-79	14-Aug-13	TBD		11.68	
MPE-79	06-Jan-14	TBD		11.25	
MPE-80	13-Aug-12	TBD		9.12	
MPE-80	20-Nov-12	TBD		9.15	
MPE-80	22-Feb-13	TBD		8.92	
MPE-80	14-May-13	TBD		9.00	
MPE-80	14-Aug-13	TBD		9.29	
MPE-80	06-Jan-14	TBD		8.84	
MPE-81	13-Aug-12	TBD		10.64	
MPE-81	20-Nov-12	TBD	10.69	11.67	0.98
MPE-81	22-Feb-13	TBD	10.57	11.14	0.57
MPE-81	14-May-13	TBD	10.61	11.27	0.66
MPE-81	14-Aug-13	TBD	10.79	12.08	1.29
MPE-81	06-Jan-14	TBD	10.58	11.00	0.42
MPE-82	13-Aug-12	TBD	10.89	11.65	0.76
MPE-82	20-Nov-12	TBD	11.04	11.38	0.34
MPE-82	22-Feb-13	TBD		10.90	
MPE-82	14-May-13	TBD	10.88	11.40	0.52
MPE-82	14-Aug-13	TBD	11.15	11.66	0.51
MPE-82	06-Jan-14	TBD		10.93	

TABLE 5
SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF
PHASES 1 through 5 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-83	13-Aug-12	TBD		12.38	
MPE-83	20-Nov-12	TBD	12.43	12.49	0.06
MPE-83	22-Feb-13	TBD	12.16	12.75	0.59
MPE-83	14-May-13	TBD	12.21	12.98	0.77
MPE-83	14-Aug-13	TBD	12.50	13.47	0.97
MPE-83	06-Jan-14	TBD	12.20	12.79	0.59
MPE-84	20-Nov-12	TBD	17.65	18.63	0.98
MPE-84	22-Feb-13	TBD	17.54	18.43	0.89
MPE-84	14-May-13	TBD	17.67	18.62	0.95
MPE-84	14-Aug-13	TBD	Active MPE--NM		
MPE-84	06-Jan-14	TBD	15.98	16.46	0.48
MPE-85	20-Nov-12	TBD	15.84	16.99	1.15
MPE-85	22-Feb-13	TBD	15.71	16.71	1.00
MPE-85	14-May-13	TBD	15.93	16.70	0.77
MPE-85	14-Aug-13	TBD	Active MPE--NM		
MPE-85	06-Jan-14	TBD	15.83	16.59	0.76
MPE-86	20-Nov-12	TBD	17.25	17.94	0.69
MPE-86	22-Feb-13	TBD	17.16	17.39	0.23
MPE-86	14-May-13	TBD	17.31	17.65	0.34
MPE-86	14-Aug-13	TBD	Active MPE--NM		
MPE-86	06-Jan-14	TBD		17.30	
MPE-87	20-Nov-12	TBD		15.94	
MPE-87	22-Feb-13	TBD		15.79	
MPE-87	14-May-13	TBD		15.92	
MPE-87	14-Aug-13	TBD		16.20	
MPE-87	06-Jan-14	TBD		15.84	
MPE-88	20-Nov-12	TBD	13.64	14.80	1.16
MPE-88	22-Feb-13	TBD	13.55	14.45	0.90
MPE-88	14-May-13	TBD	13.59	14.11	0.52
MPE-88	14-Aug-13	TBD	13.78	15.01	1.23
MPE-88	06-Jan-14	TBD	13.67	14.40	0.73
MPE-89	20-Nov-12	TBD		14.85	

TABLE 5

SUMMARY OF GROUNDWATER AND FREE PRODUCT MEASUREMENTS OF PHASES 1 through 5 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-89	22-Feb-13	TBD	14.62	14.86	0.24
MPE-89	14-May-13	TBD	14.70	15.45	0.75
MPE-89	14-Aug-13	TBD	14.78	16.00	1.22
MPE-89	06-Jan-14	TBD	14.69	15.26	0.57
MPE-90	20-Nov-12	TBD	14.81	15.49	0.68
MPE-90	22-Feb-13	TBD	14.62	15.52	0.90
MPE-90	14-May-13	TBD	14.63	15.58	0.95
MPE-90	14-Aug-13	TBD	14.88	16.23	1.35
MPE-90	06-Jan-14	TBD	14.79	15.37	0.58

TABLE 6
SUMMARY OF AIR LABORATORY ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Sample ID	*Sample Date*	*Lab Analytical Method*	*Benzene (ppmv)*	*Toluene (ppmv)*	*Ethyl-benzene (ppmv)*	*Xylene (ppmv)*	*MTBE (ppmv)*	*TPH GRO (ppmv)*
Engine #1 Pre-Engine†	16-Mar-10	8021/8015	109.10	60.850	15.84	105.6	<12.745	14,160
Engine #1 Pre-Engine†	20-Aug-10	8021/8015	7.178	8.762	<1.056	9.293	<3.3137	1,152
Engine #1 Pre-Engine†	1-Mar-11	Not Sampled-Not in Operation						
Engine #1 Pre-Cat†	16-Mar-10	8021/8015	0.092	0.071	0.097	0.781	<0.0637	11.04
Engine #1 Pre-Cat†	20-Aug-10	8021/8015	<0.02871	0.027	<0.02112	0.125	<0.0637	3.360
Engine #1 Pre-Cat†	1-Mar-11	Not Sampled-Not in Operation						
Engine #1 Post-Cat†	16-Mar-10	8021/8015	0.057	0.032	0.038	0.317	<0.0637	6.00
Engine #1 Post-Cat†	20-Aug-10	8021/8015	0.049	0.088	0.032	0.465	<0.0637	10.08
Engine #1 Post-Cat†	1-Mar-11	Not Sampled-Not in Operation						
Percent Contaminant Reduction by Catox (%) Mar 2010			**99.999**	**99.999**	**99.998**	**99.997**	**99.995**	**100.000**
Percent Contaminant Reduction by Catox (%) Aug 2010			**99.993**	**99.990**	**99.970**	**99.950**	**99.981**	**99.991**
Engine #2 Pre-Engine†	16-Mar-10	8021/8015	2.153	5.598	0.887	8.448	<1.2745	600
Engine #2 Pre-Engine†	20-Aug-10	Not Sampled-Not in Operation						
Engine #2 Pre-Engine†	1-Mar-11	8021/8015	8.326	4.868	<1.056	3.590	<3.3137	864
Engine #2 Pre-Engine†*	2-Jun-11	8021/8015	0.402	0.119	<0.02112	<0.0634	<0.0637	2.88
Engine #2 Pre-Engine†	8-Oct-12	8021/8015	746.5	535.5	126.7	633.6	<30.6	88,800
Engine #2 Pre-Engine†**	8-Nov-13	8021/8015	7.752	15.58	5.702	35.90	<6.3725	264
Engine #2 Pre-Cat†	16-Mar-10	8021/8015	0.281	0.166	0.080	0.697	<0.0637	15.12
Engine #2 Pre-Cat†	20-Aug-10	Not Sampled-Not in Operation						
Engine #2 Pre-Cat†	1-Mar-11	8021/8015	0.267	0.080	<0.02112	<0.0634	<0.0637	2.64
Engine #2 Pre-Cat†	2-Jun-11	8021/8015	0.270	0.071	<0.02112	<0.0634	<0.0637	2.64
Engine #2 Post-Cat†	16-Mar-10	8021/8015	<0.0287	<0.02434	<0.02112	0.139	<0.064	2.88
Engine #2 Post-Cat†	20-Aug-10	Not Sampled-Not in Operation						

TABLE 6

SUMMARY OF AIR LABORATORY ANALYTICAL RESULTS

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Sample ID	*Sample Date*	*Lab Analytical Method*	*Benzene (ppmv)*	*Toluene (ppmv)*	*Ethyl-benzene (ppmv)*	*Xylene (ppmv)*	*MTBE (ppmv)*	*TPH GRO (ppmv)*
Engine #2 Post-Cat†	1-Mar-11	8021/8015	0.287	0.093	<0.02112	<0.0634	<0.0637	2.28
Engine #2 Post-Cat†*	2-Jun-11	8021/8015	<0.0287	<0.02434	<0.02112	<0.0634	<0.0637	<1.2
Engine #2 Post-Cat†	8-Oct-12	8021/8015	1.723	1.679	1.816	12.672	<0.637	264
Engine #2 Post-Cat†	8-Nov-13	8021/8015	<0.02871	0.061	0.049	0.401	<0.063725	6.720
Percent Contaminant Reduction by Catox (%) Mar 2010			**99.986**	**99.996**	**99.976**	**99.983**	**99.949**	**99.995**
Percent Contaminant Reduction by Catox (%) Mar 2011			**99.966**	**99.981**	**99.970**	**99.982**	**99.981**	**99.997**
Percent Contaminant Reduction by Catox (%) June 2011			**99.929**	**99.796**	**99.000**	**99.000**	**99.000**	**97.600**
Percent Contaminant Reduction by Catox (%) October 2012			**99.998**	**99.997**	**99.986**	**99.980**	**99.998**	**99.997**
Percent Contaminant Reduction by Catox (%) October 2013			**99.996**	**99.996**	**99.991**	**99.989**	**100.998**	**99.975**

Notes:

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

ppmv **Parts per million (by volume)**

† **These results were reported in µg/L, they were converted to ppmv using the following formulas**

Benzene ppmv = µg/L x 0.2871

Toluene ppmv = µg/L x 0.2434

Ethylbenzene ppmv = µg/L x 0.2112

Xylenes ppmv = µg/L x 0.2112

MTBE ppmv = µg/L x 0.2549

GRO ppmv = µg/L x 0.24 **GRO is an estimation

* The June 2011 pre-engine and post -cat samples were inadvertently switched.

** The October 2013 pre-engine sample was mislabeled as Pre-Cat.

FIGURE 1

GENERAL SITE PLAN
THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** May 14, 2013
REVISIONS BY: C. Lameman	**DATE REVISED:** March 24, 2014
CHECKED BY: D. Watson	**DATE CHECKED:** March 24, 2014
APPROVED BY: E. McNally	**DATE APPROVED:** March 24, 2014

LEGEND

MONITOR WELL LOCATIONS

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

AERIAL SOURCE: © 2012 PICTOMETRY INTERNATIONAL CORP. ONLINE, AERIAL DATE: APRIL 4, 2013.

FIGURE 2

GROUNDWATER ELEVATION CONTOURS
NOVEMBER AND DECEMBER 2013
THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** May 14, 2013
REVISIONS BY: C. Lameman	**DATE REVISED:** March 24, 2014
CHECKED BY: D. Watson	**DATE CHECKED:** March 24, 2014
APPROVED BY: E. McNally	**DATE APPROVED:** March 24, 2014

LEGEND

- MONITOR WELL LOCATIONS
- 5440.10 GROUNDWATER ELEVATION IN FEET (AMSL)
- —5434— GROUNDWATER ELEVATION CONTOUR IN FEET (AMSL)

NOTE: GROUNDWATER MEASUREMENTS WERE MADE ON NOVEMBER 21, 22, 25, AND DECEMBER 2-6, 2013. LOCATIONS OF TW-45 THROUGH TW-54 ARE APPROXIMATE.

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

TW-53 TBS 7.06
TW-54 TBS 7.54
TW-52 TBS 7.31
TW-51 TBS 6.94
TW-46 TBS 7.34
TW-45 TBS 6.99
MW-20 5424.46
TW-47 TBS 6.83
MW-21 5424.97
MW-22 NM
MW-5 DRY
MW-7 5426.56
TW-49 TBS 5.98
TW-42 5427.71
TW-41 5428.59
TW-40 5429.60
TW-39 5430.52
TW-50 TBS 8.38
TW-31 5431.43
TW-30 5431.97
TW-48 TBS NM
MW-9 NM
MW-10 NM
TW-29 5432.42
TW-43 5428.14
TW-37 5428.88
TW-38 5430.42
TW-32 5431.96
TW-24 5428.63
TW-23 NM
TW-17 5436.12
TW-16 NM
TW-44 5428.87
TW-33 5432.57
TW-28 5433.45
TW-25 5434.21
TW-22 5434.90
TW-18 5435.90
TW-15 5436.84
TW-10 5436.96
TW-9 5437.87
TW-36 5428.74
TW-26 5433.91
TW-21 5434.84
TW-19 5440.35
TW-14 5436.63
TW-11 5437.63
TW-8 5438.02
TW-35 5433.55
TW-20 5435.57
TW-13 5436.88
TW-12 5437.47
TW-7 5438.27
TW-4 5438.95
TW-34 5435.40
TW-6 5438.20
TW-5 5439.00
TW-3 NM
TW-2 5439.71
TW-1 5440.20
KUTZ WASH
PROCESS WATER EVAPORATION LAGOONS
HYDROCRACKER REFORMER (REMOVED)
FIRE WATER POND (REMOVED)
SHOP
REFINERY OFFICE
DISPATCH OFFICE
GATE
CR 5500
ARROYO
GROUNDWATER GRADIENT 0.006 FT/FT BETWEEN TW-1 AND TW-42
5426 5428 5430 5432 5434 5436 5438 5440

FIGURE 3

FREE PRODUCT THICKNESS CONTOURS
NOVEMBER AND DECEMBER 2013
THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
C. Lameman	May 14, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	March 24, 2014
CHECKED BY:	**DATE CHECKED:**
D. Watson	March 24, 2014
APPROVED BY:	**DATE APPROVED:**
E. McNally	March 24, 2014

LEGEND

- MONITOR WELL LOCATIONS
- MPE REMEDIATION WELL
- 1.39 FREE PRODUCT THICKNESS IN FEET
- —0.5— FREE PRODUCT THICKNESS CONTOUR IN FEET

NOTE: ALL MEASUREMENTS WERE MADE ON NOVEMBER 21, 22, 25, AND DECEMBER 2-6 AND 27, 2013. LOCATIONS OF TW-45 THROUGH TW-54 ARE APPROXIMATE.

SCALE
125 75 0 125
25
(1 INCH = 125 FEET)

FIGURE 4

DISSOLVED BENZENE CONCENTRATION CONTOURS NOVEMBER AND DECEMBER 2013

THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
C. Lameman	May 14, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	March 24, 2014
CHECKED BY:	**DATE CHECKED:**
D. Watson	March 24, 2014
APPROVED BY:	**DATE APPROVED:**
E. McNally	March 24, 2014

LEGEND

- MONITOR WELL LOCATIONS
- 1.4 DISSOLVED BENZENE CONCENTRATIONS
- —10— DISSOLVED BENZENE CONCENTRATION CONTOURS
- NAPL PLUME

NOTE: ALL SAMPLES WERE COLLECTED ON NOVEMBER 21, 22, 25, AND DECEMBER 2-6 AND 27, 2013. ALL SAMPLES ANALYZED PER EPA METHOD 8260B. ALL ANALYTICAL RESULTS REPORTED AS µg/L (PPB). LOCATIONS OF TW-45 THROUGH TW-54 ARE APPROXIMATE.

N

SCALE
125 75 0 125
25
(1 INCH = 125 FEET)

FIGURE 5

DISSOLVED MTBE CONCENTRATION CONTOURS NOVEMBER AND DECEMBER 2013

THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
C. Lameman	May 14, 2013
REVISIONS BY:	**DATE REVISED:**
C. Lameman	March 24, 2014
CHECKED BY:	**DATE CHECKED:**
D. Watson	March 24, 2014
APPROVED BY:	**DATE APPROVED:**
E. McNally	March 24, 2014

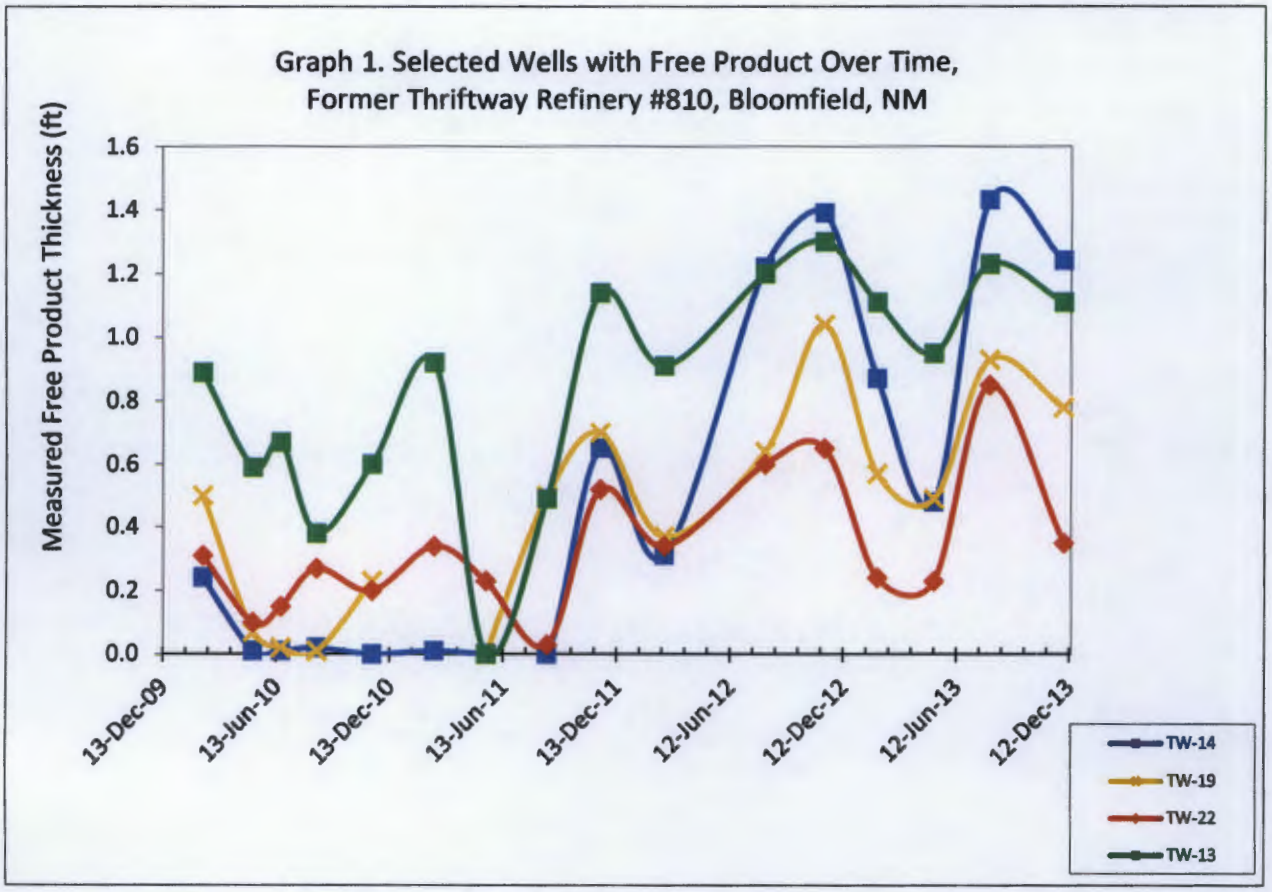
LEGEND

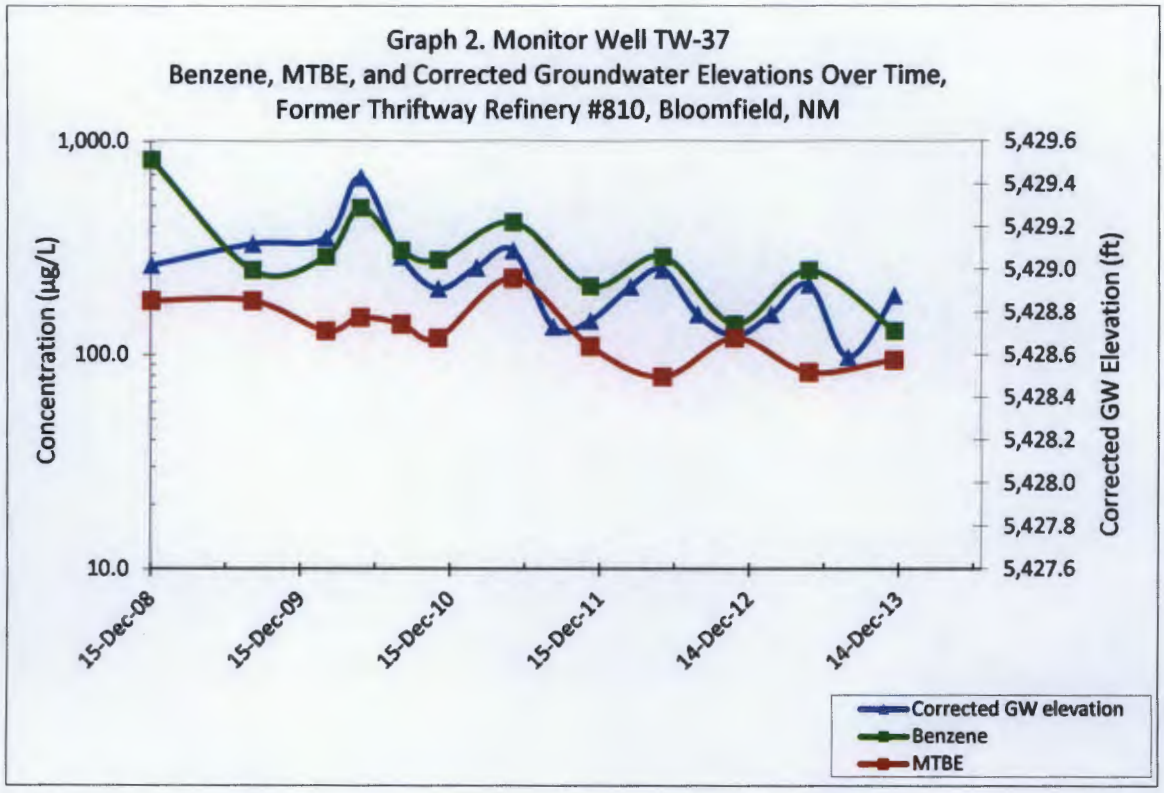
- MONITOR WELL LOCATIONS
- 190 DISSOLVED MTBE CONCENTRATIONS
- —100— DISSOLVED MTBE CONCENTRATION CONTOURS
- NAPL PLUME

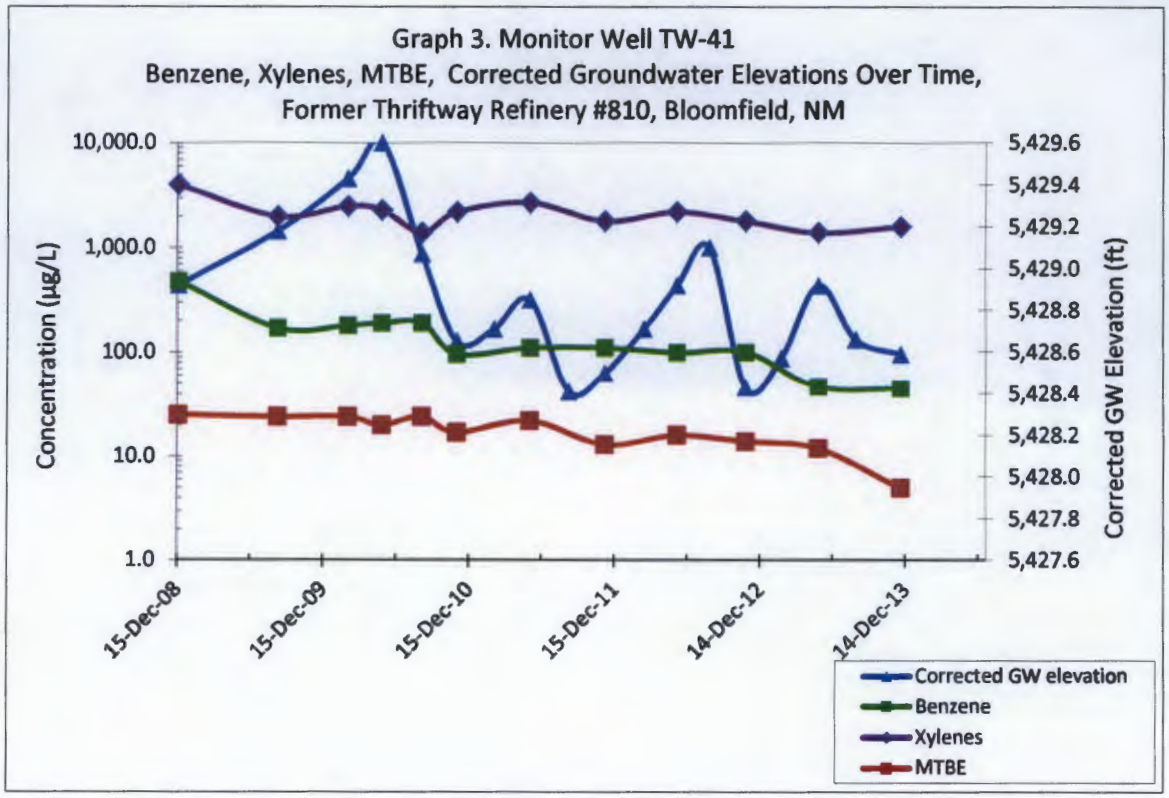
NOTE: ALL SAMPLES WERE COLLECTED ON NOVEMBER 21, 22, 25, AND DECEMBER 2-6 AND 27, 2013. ALL SAMPLES ANALYZED PER EPA METHOD 8260B. ALL ANALYTICAL RESULTS REPORTED AS µg/L (PPB). LOCATIONS OF TW-45 THROUGH TW-54 ARE APPROXIMATE.

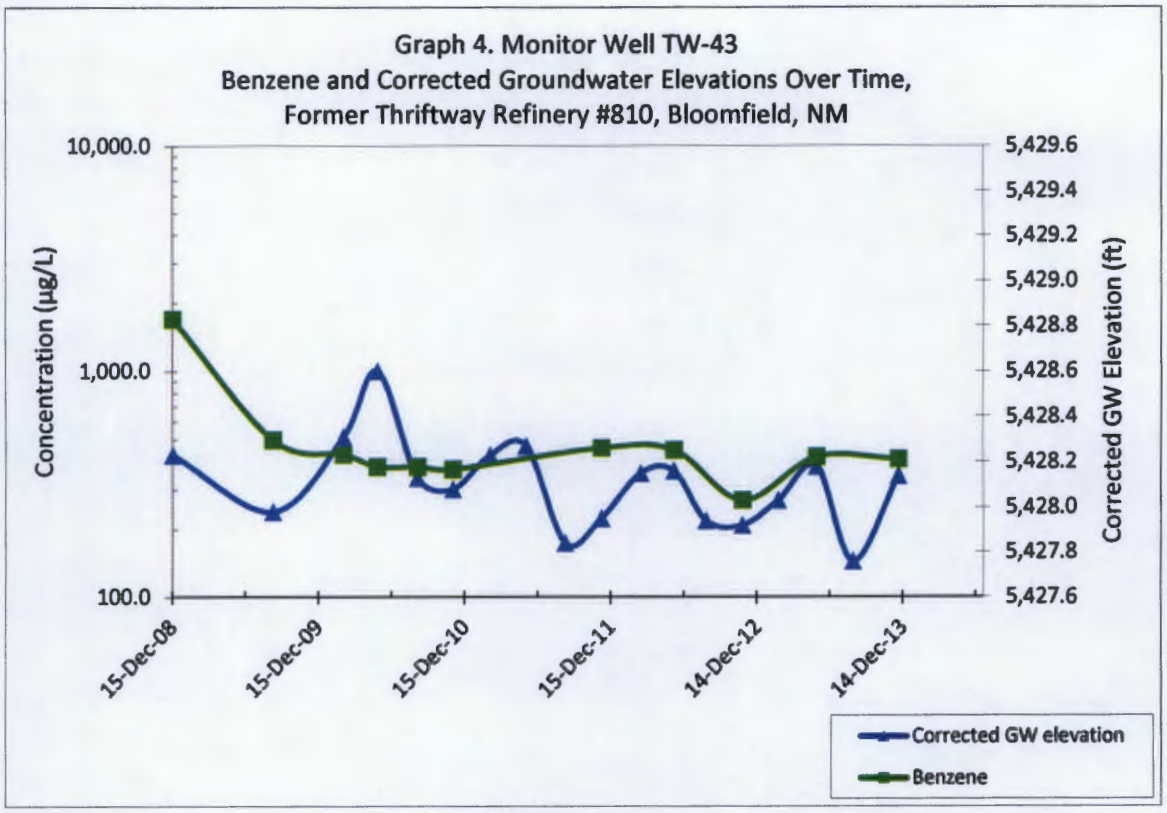
N

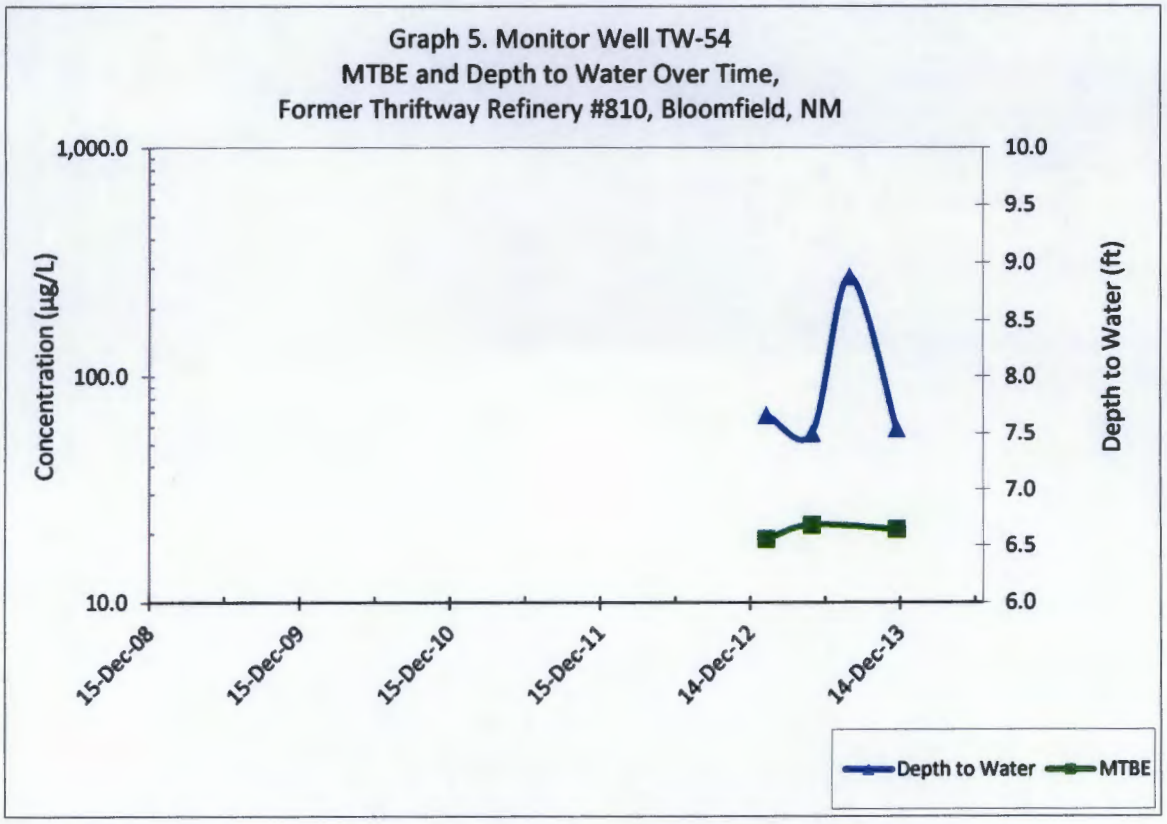
SCALE
125 75 0 125
25
(1 INCH = 125 FEET)


Graph 1. Selected Wells with Free Product Over Time,
Former Thriftway Refinery #810, Bloomfield, NM
Measured Free Product Thickness (ft)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
13-Dec-09
13-Jun-10
13-Dec-10
13-Jun-11
13-Dec-11
12-Jun-12
12-Dec-12
12-Jun-13
12-Dec-13
TW-14
TW-19
TW-22
TW-13


Graph 2. Monitor Well TW-37
Benzene, MTBE, and Corrected Groundwater Elevations Over Time,
Former Thriftway Refinery #810, Bloomfield, NM
Concentration (µg/L)
1,000.0
100.0
10.0
Corrected GW Elevation (ft)
5,429.6
5,429.4
5,429.2
5,429.0
5,428.8
5,428.6
5,428.4
5,428.2
5,428.0
5,427.8
5,427.6
15-Dec-08
15-Dec-09
15-Dec-10
15-Dec-11
14-Dec-12
14-Dec-13
Corrected GW elevation
Benzene
MTBE


Graph 3. Monitor Well TW-41
Benzene, Xylenes, MTBE, Corrected Groundwater Elevations Over Time,
Former Thriftway Refinery #810, Bloomfield, NM
Concentration (µg/L)
10,000.0
1,000.0
100.0
10.0
1.0
Corrected GW Elevation (ft)
5,429.6
5,429.4
5,429.2
5,429.0
5,428.8
5,428.6
5,428.4
5,428.2
5,428.0
5,427.8
5,427.6
15-Dec-08
15-Dec-09
15-Dec-10
15-Dec-11
14-Dec-12
14-Dec-13
Corrected GW elevation
Benzene
Xylenes
MTBE


Graph 4. Monitor Well TW-43
Benzene and Corrected Groundwater Elevations Over Time,
Former Thriftway Refinery #810, Bloomfield, NM
Concentration (µg/L)
10,000.0
1,000.0
100.0
Corrected GW Elevation (ft)
5,429.6
5,429.4
5,429.2
5,429.0
5,428.8
5,428.6
5,428.4
5,428.2
5,428.0
5,427.8
5,427.6
15-Dec-08
15-Dec-09
15-Dec-10
15-Dec-11
14-Dec-12
14-Dec-13
Corrected GW elevation
Benzene


Graph 5. Monitor Well TW-54
MTBE and Depth to Water Over Time,
Former Thriftway Refinery #810, Bloomfield, NM
Concentration (µg/L)
1,000.0
100.0
10.0
Depth to Water (ft)
10.0
9.5
9.0
8.5
8.0
7.5
7.0
6.5
6.0
15-Dec-08
15-Dec-09
15-Dec-10
15-Dec-11
14-Dec-12
14-Dec-13
Depth to Water
MTBE

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 18, 2013

Debbie Watson

Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-4071
FAX

RE: Former Thriftway Refinery #810 OrderNo.: 1312210

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 7 sample(s) on 12/5/2013 for the analyses presented in the following report.

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. In order to properly interpret your results it is imperative that you review this report in its entirety. 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. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1312210**
Date Reported: **12/18/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: Former Thriftway Refinery #810
Lab ID: 1312210-001 **Matrix:** AQUEOUS

Client Sample ID: TW-8
Collection Date: 12/3/2013 10:23:00 AM
Received Date: 12/5/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/9/2013 3:38:01 PM	10667
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/9/2013 3:38:01 PM	10667
Surr: DNOP	104	70.1-140		%REC	1	12/9/2013 3:38:01 PM	10667
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	0.31	0.050		mg/L	1	12/10/2013 1:22:02 PM	R15407
Surr: BFB	106	80.4-118		%REC	1	12/10/2013 1:22:02 PM	R15407
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	0.58	0.10		mg/L	1	12/6/2013 7:51:40 PM	R15322
Chloride	130	10		mg/L	20	12/6/2013 8:04:05 PM	R15322
Bromide	0.80	0.10		mg/L	1	12/6/2013 7:51:40 PM	R15322
Sulfate	2300	50		mg/L	100	12/10/2013 5:30:57 PM	R15410
SM2340B: HARDNESS						Analyst: **ELS**	
Hardness (As CaCO3)	1400	6.6		mg/L	1	12/9/2013 8:30:00 AM	R15348
EPA METHOD 7470: MERCURY						Analyst: **JML**	
Mercury	ND	0.00020		mg/L	1	12/8/2013 6:18:26 PM	10691
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **ELS**	
Calcium	470	10		mg/L	10	12/9/2013 12:06:53 PM	R15348
Magnesium	48	1.0		mg/L	1	12/9/2013 10:39:46 AM	R15348
Potassium	5.2	1.0		mg/L	1	12/9/2013 10:39:46 AM	R15348
Sodium	800	10		mg/L	10	12/9/2013 12:06:53 PM	R15348
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **JLF**	
Arsenic	ND	0.020		mg/L	1	12/9/2013 4:43:02 PM	10704
Barium	0.030	0.020		mg/L	1	12/9/2013 4:43:02 PM	10704
Cadmium	ND	0.0020		mg/L	1	12/9/2013 4:43:02 PM	10704
Chromium	ND	0.0060		mg/L	1	12/9/2013 4:43:02 PM	10704
Lead	ND	0.0050		mg/L	1	12/9/2013 4:43:02 PM	10704
Selenium	ND	0.050		mg/L	1	12/9/2013 4:43:02 PM	10704
Silver	ND	0.0050		mg/L	1	12/9/2013 4:43:02 PM	10704
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	1.0		µg/L	1	12/13/2013 4:50:58 PM	R15493
Toluene	ND	1.0		µg/L	1	12/13/2013 4:50:58 PM	R15493
Ethylbenzene	1.2	1.0		µg/L	1	12/13/2013 4:50:58 PM	R15493
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/13/2013 4:50:58 PM	R15493
Naphthalene	ND	2.0		µg/L	1	12/13/2013 4:50:58 PM	R15493
1-Methylnaphthalene	ND	4.0		µg/L	1	12/13/2013 4:50:58 PM	R15493
2-Methylnaphthalene	ND	4.0		µg/L	1	12/13/2013 4:50:58 PM	R15493

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-8
Project: Former Thriftway Refinery #810
Collection Date: 12/3/2013 10:23:00 AM
Lab ID: 1312210-001 **Matrix:** AQUEOUS **Received Date:** 12/5/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Xylenes, Total	ND	1.5		µg/L	1	12/13/2013 4:50:58 PM	R15493
Surr: 1,2-Dichloroethane-d4	98.1	70-130		%REC	1	12/13/2013 4:50:58 PM	R15493
Surr: 4-Bromofluorobenzene	97.4	70-130		%REC	1	12/13/2013 4:50:58 PM	R15493
Surr: Dibromofluoromethane	95.3	70-130		%REC	1	12/13/2013 4:50:58 PM	R15493
Surr: Toluene-d8	95.5	70-130		%REC	1	12/13/2013 4:50:58 PM	R15493
SM2510B: SPECIFIC CONDUCTANCE						Analyst: **JML**	
Conductivity	4500	0.010		µmhos/cm	1	12/6/2013 6:19:14 PM	R15308
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	4030	40.0	*	mg/L	1	12/11/2013 8:14:00 AM	10714

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-18
Project: Former Thriftway Refinery #810
Collection Date: 12/3/2013 11:42:00 AM
Lab ID: 1312210-002 **Matrix:** AQUEOUS **Received Date:** 12/5/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/9/2013 3:59:41 PM	10667
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/9/2013 3:59:41 PM	10667
Surr: DNOP	109	70.1-140		%REC	1	12/9/2013 3:59:41 PM	10667
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/10/2013 1:52:21 PM	R15407
Surr: BFB	87.7	80.4-118		%REC	1	12/10/2013 1:52:21 PM	R15407
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	1.0		µg/L	1	12/13/2013 6:15:37 PM	R15493
Toluene	ND	1.0		µg/L	1	12/13/2013 6:15:37 PM	R15493
Ethylbenzene	ND	1.0		µg/L	1	12/13/2013 6:15:37 PM	R15493
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	12/13/2013 6:15:37 PM	R15493
Naphthalene	ND	2.0		µg/L	1	12/13/2013 6:15:37 PM	R15493
1-Methylnaphthalene	ND	4.0		µg/L	1	12/13/2013 6:15:37 PM	R15493
2-Methylnaphthalene	ND	4.0		µg/L	1	12/13/2013 6:15:37 PM	R15493
Xylenes, Total	ND	1.5		µg/L	1	12/13/2013 6:15:37 PM	R15493
Surr: 1,2-Dichloroethane-d4	91.3	70-130		%REC	1	12/13/2013 6:15:37 PM	R15493
Surr: 4-Bromofluorobenzene	96.5	70-130		%REC	1	12/13/2013 6:15:37 PM	R15493
Surr: Dibromofluoromethane	90.3	70-130		%REC	1	12/13/2013 6:15:37 PM	R15493
Surr: Toluene-d8	93.1	70-130		%REC	1	12/13/2013 6:15:37 PM	R15493

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-30
Project: Former Thriftway Refinery #810
Collection Date: 12/3/2013 1:30:00 PM
Lab ID: 1312210-003 **Matrix:** AQUEOUS **Received Date:** 12/5/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/9/2013 4:21:12 PM	10667
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/9/2013 4:21:12 PM	10667
Surr: DNOP	109	70.1-140		%REC	1	12/9/2013 4:21:12 PM	10667
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	0.056	0.050		mg/L	1	12/10/2013 2:22:27 PM	R15407
Surr: BFB	84.5	80.4-118		%REC	1	12/10/2013 2:22:27 PM	R15407
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	ND	0.50		mg/L	5	12/6/2013 8:16:30 PM	R15322
Chloride	660	50		mg/L	100	12/10/2013 5:43:22 PM	R15410
Bromide	ND	0.50		mg/L	5	12/6/2013 8:16:30 PM	R15322
Sulfate	1900	50		mg/L	100	12/10/2013 5:43:22 PM	R15410
SM2340B: HARDNESS						Analyst: **ELS**	
Hardness (As CaCO3)	1400	6.6		mg/L	1	12/9/2013 8:30:00 AM	R15348
EPA METHOD 7470: MERCURY						Analyst: **JML**	
Mercury	ND	0.00020		mg/L	1	12/8/2013 6:20:12 PM	10691
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **ELS**	
Calcium	480	10		mg/L	10	12/9/2013 12:09:42 PM	R15348
Magnesium	55	1.0		mg/L	1	12/9/2013 10:42:50 AM	R15348
Potassium	7.0	1.0		mg/L	1	12/9/2013 10:42:50 AM	R15348
Sodium	1000	20		mg/L	20	12/9/2013 12:12:34 PM	R15348
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **JLF**	
Arsenic	0.064	0.020		mg/L	1	12/9/2013 4:45:34 PM	10704
Barium	0.42	0.020		mg/L	1	12/9/2013 4:45:34 PM	10704
Cadmium	ND	0.0020		mg/L	1	12/9/2013 4:45:34 PM	10704
Chromium	0.0096	0.0060		mg/L	1	12/9/2013 4:45:34 PM	10704
Lead	ND	0.0050		mg/L	1	12/9/2013 4:45:34 PM	10704
Selenium	ND	0.050		mg/L	1	12/9/2013 4:45:34 PM	10704
Silver	ND	0.0050		mg/L	1	12/9/2013 4:45:34 PM	10704
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	1.4	1.0		µg/L	1	12/13/2013 6:43:55 PM	R15493
Toluene	ND	1.0		µg/L	1	12/13/2013 6:43:55 PM	R15493
Ethylbenzene	ND	1.0		µg/L	1	12/13/2013 6:43:55 PM	R15493
Methyl tert-butyl ether (MTBE)	7.9	1.0		µg/L	1	12/13/2013 6:43:55 PM	R15493
Naphthalene	ND	2.0		µg/L	1	12/13/2013 6:43:55 PM	R15493
1-Methylnaphthalene	ND	4.0		µg/L	1	12/13/2013 6:43:55 PM	R15493
2-Methylnaphthalene	ND	4.0		µg/L	1	12/13/2013 6:43:55 PM	R15493

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-30
Project: Former Thriftway Refinery #810
Collection Date: 12/3/2013 1:30:00 PM
Lab ID: 1312210-003 **Matrix:** AQUEOUS **Received Date:** 12/5/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Xylenes, Total	ND	1.5		µg/L	1	12/13/2013 6:43:55 PM	R15493
Surr: 1,2-Dichloroethane-d4	94.1	70-130		%REC	1	12/13/2013 6:43:55 PM	R15493
Surr: 4-Bromofluorobenzene	95.3	70-130		%REC	1	12/13/2013 6:43:55 PM	R15493
Surr: Dibromofluoromethane	93.3	70-130		%REC	1	12/13/2013 6:43:55 PM	R15493
Surr: Toluene-d8	95.5	70-130		%REC	1	12/13/2013 6:43:55 PM	R15493
SM2510B: SPECIFIC CONDUCTANCE						Analyst: **JML**	
Conductivity	6100	0.010		µmhos/cm	1	12/6/2013 6:23:27 PM	R15308
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	4750	100	*	mg/L	1	12/11/2013 8:14:00 AM	10714

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-31
Project: Former Thriftway Refinery #810
Collection Date: 12/3/2013 2:18:00 PM
Lab ID: 1312210-004 **Matrix:** AQUEOUS **Received Date:** 12/5/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/9/2013 4:42:54 PM	10667
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/9/2013 4:42:54 PM	10667
Surr: DNOP	110	70.1-140		%REC	1	12/9/2013 4:42:54 PM	10667
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/10/2013 2:52:43 PM	R15407
Surr: BFB	81.0	80.4-118		%REC	1	12/10/2013 2:52:43 PM	R15407
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	1.0		µg/L	1	12/13/2013 7:11:55 PM	R15493
Toluene	ND	1.0		µg/L	1	12/13/2013 7:11:55 PM	R15493
Ethylbenzene	ND	1.0		µg/L	1	12/13/2013 7:11:55 PM	R15493
Methyl tert-butyl ether (MTBE)	2.8	1.0		µg/L	1	12/13/2013 7:11:55 PM	R15493
Naphthalene	ND	2.0		µg/L	1	12/13/2013 7:11:55 PM	R15493
1-Methylnaphthalene	ND	4.0		µg/L	1	12/13/2013 7:11:55 PM	R15493
2-Methylnaphthalene	ND	4.0		µg/L	1	12/13/2013 7:11:55 PM	R15493
Xylenes, Total	ND	1.5		µg/L	1	12/13/2013 7:11:55 PM	R15493
Surr: 1,2-Dichloroethane-d4	91.7	70-130		%REC	1	12/13/2013 7:11:55 PM	R15493
Surr: 4-Bromofluorobenzene	101	70-130		%REC	1	12/13/2013 7:11:55 PM	R15493
Surr: Dibromofluoromethane	91.5	70-130		%REC	1	12/13/2013 7:11:55 PM	R15493
Surr: Toluene-d8	92.1	70-130		%REC	1	12/13/2013 7:11:55 PM	R15493

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-37
Project: Former Thriftway Refinery #810
Collection Date: 12/3/2013 2:55:00 PM
Lab ID: 1312210-005 **Matrix:** AQUEOUS **Received Date:** 12/5/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst:	**BCN**
Diesel Range Organics (DRO)	1.4	1.0		mg/L	1	12/9/2013 5:04:27 PM	10667
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/9/2013 5:04:27 PM	10667
Surr: DNOP	116	70.1-140		%REC	1	12/9/2013 5:04:27 PM	10667
EPA METHOD 8015D: GASOLINE RANGE						Analyst:	**NSB**
Gasoline Range Organics (GRO)	1.4	0.050		mg/L	1	12/10/2013 3:23:03 PM	R15407
Surr: BFB	159	80.4-118	S	%REC	1	12/10/2013 3:23:03 PM	R15407
EPA METHOD 300.0: ANIONS						Analyst:	**JRR**
Chloride	150	10		mg/L	20	12/6/2013 8:53:43 PM	R15322
Sulfate	1400	25		mg/L	50	12/10/2013 5:55:46 PM	R15410
EPA METHOD 8260B: VOLATILES						Analyst:	**JMP**
Benzene	130	5.0		µg/L	5	12/13/2013 8:08:03 PM	R15493
Toluene	ND	5.0		µg/L	5	12/13/2013 8:08:03 PM	R15493
Ethylbenzene	41	5.0		µg/L	5	12/13/2013 8:08:03 PM	R15493
Methyl tert-butyl ether (MTBE)	95	5.0		µg/L	5	12/13/2013 8:08:03 PM	R15493
Naphthalene	ND	10		µg/L	5	12/13/2013 8:08:03 PM	R15493
1-Methylnaphthalene	ND	20		µg/L	5	12/13/2013 8:08:03 PM	R15493
2-Methylnaphthalene	ND	20		µg/L	5	12/13/2013 8:08:03 PM	R15493
Xylenes, Total	11	7.5		µg/L	5	12/13/2013 8:08:03 PM	R15493
Surr: 1,2-Dichloroethane-d4	91.8	70-130		%REC	5	12/13/2013 8:08:03 PM	R15493
Surr: 4-Bromofluorobenzene	88.6	70-130		%REC	5	12/13/2013 8:08:03 PM	R15493
Surr: Dibromofluoromethane	92.2	70-130		%REC	5	12/13/2013 8:08:03 PM	R15493
Surr: Toluene-d8	91.2	70-130		%REC	5	12/13/2013 8:08:03 PM	R15493

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-39
Project: Former Thriftway Refinery #810
Collection Date: 12/3/2013 3:25:00 PM
Lab ID: 1312210-006 **Matrix:** AQUEOUS **Received Date:** 12/5/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/9/2013 5:26:05 PM	10667
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/9/2013 5:26:05 PM	10667
Surr: DNOP	108	70.1-140		%REC	1	12/9/2013 5:26:05 PM	10667
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	0.76	0.050		mg/L	1	12/10/2013 3:53:13 PM	R15407
Surr: BFB	224	80.4-118	S	%REC	1	12/10/2013 3:53:13 PM	R15407
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	1.2	1.0		µg/L	1	12/13/2013 7:40:05 PM	R15493
Toluene	ND	1.0		µg/L	1	12/13/2013 7:40:05 PM	R15493
Ethylbenzene	ND	1.0		µg/L	1	12/13/2013 7:40:05 PM	R15493
Methyl tert-butyl ether (MTBE)	7.1	1.0		µg/L	1	12/13/2013 7:40:05 PM	R15493
Naphthalene	ND	2.0		µg/L	1	12/13/2013 7:40:05 PM	R15493
1-Methylnaphthalene	4.6	4.0		µg/L	1	12/13/2013 7:40:05 PM	R15493
2-Methylnaphthalene	ND	4.0		µg/L	1	12/13/2013 7:40:05 PM	R15493
Xylenes, Total	ND	1.5		µg/L	1	12/13/2013 7:40:05 PM	R15493
Surr: 1,2-Dichloroethane-d4	97.6	70-130		%REC	1	12/13/2013 7:40:05 PM	R15493
Surr: 4-Bromofluorobenzene	96.9	70-130		%REC	1	12/13/2013 7:40:05 PM	R15493
Surr: Dibromofluoromethane	95.1	70-130		%REC	1	12/13/2013 7:40:05 PM	R15493
Surr: Toluene-d8	92.1	70-130		%REC	1	12/13/2013 7:40:05 PM	R15493

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-41
Project: Former Thriftway Refinery #810
Collection Date: 12/3/2013 4:05:00 PM
Lab ID: 1312210-007
Matrix: AQUEOUS
Received Date: 12/5/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	4.3	1.0		mg/L	1	12/9/2013 5:47:43 PM	10667
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/9/2013 5:47:43 PM	10667
Surr: DNOP	109	70.1-140		%REC	1	12/9/2013 5:47:43 PM	10667
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	8.1	0.25		mg/L	5	12/10/2013 12:21:36 PM	R15407
Surr: BFB	134	80.4-118	S	%REC	5	12/10/2013 12:21:36 PM	R15407
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	ND	0.50		mg/L	5	12/6/2013 9:06:08 PM	R15322
Chloride	780	25		mg/L	50	12/10/2013 6:08:11 PM	R15410
Bromide	0.74	0.50		mg/L	5	12/6/2013 9:06:08 PM	R15322
Sulfate	1200	25		mg/L	50	12/10/2013 6:08:11 PM	R15410
SM2340B: HARDNESS						Analyst: **ELS**	
Hardness (As CaCO3)	1200	6.6		mg/L	1	12/9/2013 8:30:00 AM	R15348
EPA METHOD 7470: MERCURY						Analyst: **JML**	
Mercury	ND	0.00020		mg/L	1	12/8/2013 6:21:58 PM	10691
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **ELS**	
Calcium	380	10		mg/L	10	12/9/2013 12:15:25 PM	R15348
Magnesium	68	1.0		mg/L	1	12/9/2013 10:45:42 AM	R15348
Potassium	6.2	1.0		mg/L	1	12/9/2013 10:45:42 AM	R15348
Sodium	620	20		mg/L	20	12/9/2013 12:18:12 PM	R15348
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **JLF**	
Arsenic	0.036	0.020		mg/L	1	12/9/2013 4:48:23 PM	10704
Barium	0.21	0.020		mg/L	1	12/9/2013 4:48:23 PM	10704
Cadmium	ND	0.0020		mg/L	1	12/9/2013 4:48:23 PM	10704
Chromium	ND	0.0060		mg/L	1	12/9/2013 4:48:23 PM	10704
Lead	ND	0.0050		mg/L	1	12/9/2013 4:48:23 PM	10704
Selenium	ND	0.050		mg/L	1	12/9/2013 4:48:23 PM	10704
Silver	ND	0.0050		mg/L	1	12/9/2013 4:48:23 PM	10704
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	45	10		µg/L	10	12/13/2013 10:00:11 PM	R15493
Toluene	ND	10		µg/L	10	12/13/2013 10:00:11 PM	R15493
Ethylbenzene	470	10		µg/L	10	12/13/2013 10:00:11 PM	R15493
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	12/13/2013 10:00:11 PM	R15493
Naphthalene	34	20		µg/L	10	12/13/2013 10:00:11 PM	R15493
1-Methylnaphthalene	40	40		µg/L	10	12/13/2013 10:00:11 PM	R15493
2-Methylnaphthalene	ND	40		µg/L	10	12/13/2013 10:00:11 PM	R15493

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-41
Project: Former Thriftway Refinery #810
Collection Date: 12/3/2013 4:05:00 PM
Lab ID: 1312210-007 **Matrix:** AQUEOUS **Received Date:** 12/5/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Xylenes, Total	1600	15		µg/L	10	12/13/2013 10:00:11 PM	R15493
Surr: 1,2-Dichloroethane-d4	91.2	70-130		%REC	10	12/13/2013 10:00:11 PM	R15493
Surr: 4-Bromofluorobenzene	92.1	70-130		%REC	10	12/13/2013 10:00:11 PM	R15493
Surr: Dibromofluoromethane	94.3	70-130		%REC	10	12/13/2013 10:00:11 PM	R15493
Surr: Toluene-d8	90.7	70-130		%REC	10	12/13/2013 10:00:11 PM	R15493
SM2510B: SPECIFIC CONDUCTANCE						Analyst: **JML**	
Conductivity	5700	0.010		µmhos/cm	1	12/6/2013 6:27:33 PM	R15308
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	4350	200	*	mg/L	1	12/11/2013 8:14:00 AM	10714

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312210**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **A5**	SampType: **CCV_5**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15322**	RunNo: **15322**
Prep Date:	Analysis Date: **12/6/2013**	SeqNo: **441502** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.6	0.10	1.600	0	101	90	110			
Chloride	8.1	0.50	8.000	0	101	90	110			
Bromide	8.2	0.10	8.000	0	102	90	110			

Sample ID **A6**	SampType: **CCV_6**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15322**	RunNo: **15322**
Prep Date:	Analysis Date: **12/6/2013**	SeqNo: **441514** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.5	0.10	2.400	0	103	90	110			
Chloride	12	0.50	12.00	0	103	90	110			
Bromide	13	0.10	12.00	0	104	90	110			

Sample ID **A4**	SampType: **CCV_4**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15322**	RunNo: **15322**
Prep Date:	Analysis Date: **12/6/2013**	SeqNo: **441526** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.99	0.10	1.000	0	98.6	90	110			
Chloride	4.7	0.50	5.000	0	94.3	90	110			
Bromide	5.0	0.10	5.000	0	99.7	90	110			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R15322**	RunNo: **15322**
Prep Date:	Analysis Date: **12/6/2013**	SeqNo: **441530** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Bromide	ND	0.10								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R15322**	RunNo: **15322**
Prep Date:	Analysis Date: **12/6/2013**	SeqNo: **441531** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	100	90	110			
Chloride	4.7	0.50	5.000	0	93.7	90	110			
Bromide	2.3	0.10	2.500	0	93.8	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312210**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **A5**	SampType: **CCV_5**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15322**	RunNo: **15322**
Prep Date:	Analysis Date: **12/6/2013**	SeqNo: **441538** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.6	0.10	1.600	0	101	90	110			
Chloride	7.8	0.50	8.000	0	97.9	90	110			
Bromide	8.1	0.10	8.000	0	102	90	110			

Sample ID **A6**	SampType: **CCV_6**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15322**	RunNo: **15322**
Prep Date:	Analysis Date: **12/7/2013**	SeqNo: **441550** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.3	0.10	2.400	0	96.6	90	110			
Chloride	12	0.50	12.00	0	102	90	110			
Bromide	12	0.10	12.00	0	104	90	110			

Sample ID **A4**	SampType: **CCV_4**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15322**	RunNo: **15322**
Prep Date:	Analysis Date: **12/7/2013**	SeqNo: **441562** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.0	0.10	1.000	0	99.8	90	110			
Chloride	4.7	0.50	5.000	0	94.2	90	110			
Bromide	5.0	0.10	5.000	0	99.7	90	110			

Sample ID **A5**	SampType: **CCV_5**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15322**	RunNo: **15322**
Prep Date:	Analysis Date: **12/7/2013**	SeqNo: **441568** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.6	0.10	1.600	0	102	90	110			
Chloride	7.8	0.50	8.000	0	98.0	90	110			
Bromide	8.2	0.10	8.000	0	102	90	110			

Sample ID **A5**	SampType: **CCV_5**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15410**	RunNo: **15410**
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443898** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	7.7	0.50	8.000	0	96.7	90	110			
Sulfate	19	0.50	20.00	0	97.5	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312210**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R15410**	RunNo: **15410**
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443900** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R15410**	RunNo: **15410**
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443901** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.6	90	110			
Sulfate	9.5	0.50	10.00	0	94.5	90	110			

Sample ID **A6**	SampType: **CCV_6**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15410**	RunNo: **15410**
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443910** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	12	0.50	12.00	0	101	90	110			
Sulfate	31	0.50	30.00	0	102	90	110			

Sample ID **A4**	SampType: **CCV_4**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15410**	RunNo: **15410**
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443922** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.5	90	110			
Sulfate	12	0.50	12.50	0	93.8	90	110			

Sample ID **A5**	SampType: **CCV_5**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15410**	RunNo: **15410**
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443934** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	7.7	0.50	8.000	0	96.5	90	110			
Sulfate	20	0.50	20.00	0	98.2	90	110			

Sample ID **A6**	SampType: **CCV_6**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15410**	RunNo: **15410**
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443944** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312210**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **A6**	SampType: **CCV_6**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15410**	RunNo: **15410**
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443944** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	12	0.50	12.00	0	101	90	110			
Sulfate	31	0.50	30.00	0	102	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312210**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **MB-10667**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range**
Client ID: **PBW**	Batch ID: **10667**	RunNo: **15333**
Prep Date: **12/5/2013**	Analysis Date: **12/9/2013**	SeqNo: **442400** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	1.1		1.000		112	70.1	140			

Sample ID **LCS-10667**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range**
Client ID: **LCSW**	Batch ID: **10667**	RunNo: **15333**
Prep Date: **12/5/2013**	Analysis Date: **12/9/2013**	SeqNo: **442401** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.7	1.0	5.000	0	134	73.3	145			
Surr: DNOP	0.60		0.5000		121	70.1	140			

Sample ID **LCSD-10667**	SampType: **LCSD**	TestCode: **EPA Method 8015D: Diesel Range**
Client ID: **LCSS02**	Batch ID: **10667**	RunNo: **15333**
Prep Date: **12/5/2013**	Analysis Date: **12/9/2013**	SeqNo: **442402** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.3	1.0	5.000	0	127	73.3	145	19.8	20	
Surr: DNOP	0.59		0.5000		118	70.1	140	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312210**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **R15407**	RunNo: **15407**
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443827** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	17		20.00		85.3	80.4	118			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **R15407**	RunNo: **15407**
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443828** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.50	0.050	0.5000	0	100	80	120			
Surr: BFB	18		20.00		91.6	80.4	118			

Sample ID **1312210-007AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TW-41**	Batch ID: **R15407**	RunNo: **15407**
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443831** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	10	0.25	2.500	8.088	91.0	67.7	128			
Surr: BFB	140		100.0		136	80.4	118			S

Sample ID **1312210-007AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **TW-41**	Batch ID: **R15407**	RunNo: **15407**
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443832** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	10	0.25	2.500	8.088	94.2	67.7	128	0.750	20	
Surr: BFB	130		100.0		133	80.4	118	0	0	S

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312210**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R15493**	RunNo: **15493**
Prep Date:	Analysis Date: **12/13/2013**	SeqNo: **445930** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.2		10.00		92.0	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	9.2		10.00		92.4	70	130			
Surr: Toluene-d8	9.4		10.00		94.5	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R15493**	RunNo: **15493**
Prep Date:	Analysis Date: **12/13/2013**	SeqNo: **445932** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	106	70	130			
Toluene	21	1.0	20.00	0	104	82.2	124			
Surr: 1,2-Dichloroethane-d4	9.2		10.00		91.8	70	130			
Surr: 4-Bromofluorobenzene	9.7		10.00		96.7	70	130			
Surr: Dibromofluoromethane	9.2		10.00		91.9	70	130			
Surr: Toluene-d8	9.4		10.00		93.6	70	130			

Sample ID **1312210-001bms**	SampType: **MS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **TW-8**	Batch ID: **R15493**	RunNo: **15493**
Prep Date:	Analysis Date: **12/13/2013**	SeqNo: **445950** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	13	1.0	20.00	0	64.1	67.9	137			S
Toluene	13	1.0	20.00	0	66.4	77	127			S
Surr: 1,2-Dichloroethane-d4	9.4		10.00		93.9	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		95.1	70	130			
Surr: Dibromofluoromethane	9.2		10.00		92.3	70	130			
Surr: Toluene-d8	9.5		10.00		95.0	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312210**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **1312210-001bmsd**	SampType: **MSD**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **TW-8**	Batch ID: **R15493**	RunNo: **15493**
Prep Date:	Analysis Date: **12/13/2013**	SeqNo: **445951** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	8.3	1.0	20.00	0	41.7	67.9	137	42.4	20	SR
Toluene	7.8	1.0	20.00	0	38.8	77	127	52.4	20	SR
Surr: 1,2-Dichloroethane-d4	9.7		10.00		97.0	70	130	0	0	
Surr: 4-Bromofluorobenzene	9.2		10.00		91.8	70	130	0	0	
Surr: Dibromofluoromethane	9.5		10.00		95.2	70	130	0	0	
Surr: Toluene-d8	9.1		10.00		91.1	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312210**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **MB-10691**	SampType: **MBLK**	TestCode: **EPA Method 7470: Mercury**
Client ID: **PBW**	Batch ID: **10691**	RunNo: **15328**
Prep Date: **12/7/2013**	Analysis Date: **12/8/2013**	SeqNo: **441704** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID **LCS-10691**	SampType: **LCS**	TestCode: **EPA Method 7470: Mercury**
Client ID: **LCSW**	Batch ID: **10691**	RunNo: **15328**
Prep Date: **12/7/2013**	Analysis Date: **12/8/2013**	SeqNo: **441705** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	100	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312210**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **R15348**	RunNo: **15348**
Prep Date:	Analysis Date: **12/9/2013**	SeqNo: **442192** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	52	1.0	50.00	0	105	80	120			
Magnesium	53	1.0	50.00	0	106	80	120			
Potassium	50	1.0	50.00	0	100	80	120			
Sodium	52	1.0	50.00	0	104	80	120			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **PBW**	Batch ID: **R15348**	RunNo: **15348**
Prep Date:	Analysis Date: **12/9/2013**	SeqNo: **442294** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312210**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **LCS-10704**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **10704**	RunNo: **15361**
Prep Date: **12/9/2013**	Analysis Date: **12/9/2013**	SeqNo: **442718** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.48	0.020	0.5000	0	95.2	80	120			
Barium	0.45	0.020	0.5000	0	89.5	80	120			
Cadmium	0.46	0.0020	0.5000	0	91.8	80	120			
Chromium	0.45	0.0060	0.5000	0	90.7	80	120			
Lead	0.45	0.0050	0.5000	0	89.8	80	120			
Selenium	0.46	0.050	0.5000	0	91.0	80	120			
Silver	0.10	0.0050	0.1000	0	105	80	120			

Sample ID **MB-10704**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **10704**	RunNo: **15361**
Prep Date: **12/9/2013**	Analysis Date: **12/9/2013**	SeqNo: **442732** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Selenium	ND	0.050								
Silver	ND	0.0050								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312210**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **MB-10714**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **10714**	RunNo: **15400**
Prep Date: **12/9/2013**	Analysis Date: **12/11/2013**	SeqNo: **443540** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID **LCS-10714**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **10714**	RunNo: **15400**
Prep Date: **12/9/2013**	Analysis Date: **12/11/2013**	SeqNo: **443541** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1050	20.0	1000	0	105	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **Animas Environmental** Work Order Number: **1312210** RcptNo: **1**

Received by/date: AB 12/05/13

Logged By: **Lindsay Mangin** 12/5/2013 10:00:00 AM

Completed By: **Lindsay Mangin** 12/5/2013 2:01:31 PM

Reviewed By: MS 12/06/13

Chain of Custody

1. Custody seals intact on sample bottles?	Yes	No	Not Present ✔
2. Is Chain of Custody complete?	Yes ✔	No	Not Present
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ✔	No	NA
6. Sample(s) in proper container(s)?	Yes ✔	No	
7. Sufficient sample volume for indicated test(s)?	Yes ✔	No	
8. Are samples (except VOA and ONG) properly preserved?	~~Yes ✔~~	No ✔	
9. Was preservative added to bottles?	Yes ☐	~~No ✔~~	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes	No ✔	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ✔	No	# of preserved bottles checked for pH: 6 (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ✔	No	Adjusted? YES
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

FOR METALS ANALYSIS: ADDED 1mL HNO3 TO <0.070 FOR ACCEPTABLE PH. NEED IN LOGIN FOR 24 HOURS AFTER PRESERVATION. 12/6/13 @ 1355

Special Handling (If applicable)

16. Was client notified of all discrepancies with this order? Yes No NA ✔

Person Notified: Date:

By Whom: Via: eMail Phone Fax In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain of Custody Record

Client: Animas Environmental Services	X Standard ☐ Rush
	Project Name: Former Thriftway Refinery #810
Mailing Address: 624 E Comanche, Farmington, NM 87401	Project #: AES 050204
Phone #: 505-564-2281	Project Manager: D. Watson
email or Fax#: 505-324-2022	Sampler: M. Beauparlant
QA/QC Package: X Standard ☐ Level 4 (Full Validation)	On Ice: X Yes ☐ No
Accreditation: ☐ NELAP ☐ Other	Sample Temperature: 1.0
☐ EDD (Type)	

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. 1312210	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, Chloride, Fluoride, Sulfate	300.0 Chloride and Sulfate	Hardness CaCO3 6010	TDS 2540C	Specific Conductance EPA 120.1	Air Bubbles (Y or N)
		~~Water~~	~~MB TW-7~~	6-40mL VOA/ 1-1L Amber/1-500 mL Plastic	~~5-HCL & 1-Non/Non/Non~~	-00	X	X	X				X				
12-3-13	10:23	Water	TW-8	6-40mL VoA/1-1L Amber/2-500mL & 1-125mL Plastic	5-HCl & 1-Non/Non/2-HNO3 & 1-Non	-001	X	X	X	X	X	X		X	X	X		
12-3-13	11:42	Water	TW-18	6-40mL VOA/ 1-1L Amber	5-HCL & 1-Non/Non	-002	X	X	X									
		~~Water~~	~~MB TW-23~~	6-40mL VOA/ 1-1L Amber	~~5-HCL & 1-Non/Non~~		X	X	X									
12-3-13	13:30	Water	TW-30	6-40mL VoA/1-1L Amber/2-500mL & 1-125mL Plastic	5-HCl & 1-Non/Non/2-HNO3 & 1-Non	-003	X	X	X	X	X	X		X	X	X		
12-3-13	14:18	Water	TW-31	6-40mL VOA/ 1-1L Amber	5-HCL & 1-Non/Non	-004	X	X	X									
12-3-13	14:55	Water	TW-37	6-40mL VOA/ 1-1L Amber/1-500 mL Plastic	5-HCL & 1-Non/Non/Non	-005	X	X	X				X					
12-3-13	15:25	Water	TW-39	6-40mL VOA/ 1-1L Amber	5-HCL & 1-Non/Non	-006	X	X	X									
12-3-13	16:05	Water	TW-41	6-40mL VoA/1-1L Amber/2-500mL & 1-125mL Plastic	5-HCl & 1-Non/Non/2-HNO3 & 1-Non	-007	X	X	X	X	X	X		X	X	X		

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/4/13	1744			12/4/13	1944
Date:	Time:	Relinquished by:	Received by:	Date	Time
12/4/13	1800			12/5/13	1000

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.

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: Mike Beauparlant

Project No.: AES 050204
Date: 12-27-13
Time:
Form: 4 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MPE-37	14:40	20.52'	21.75'	1.23'	
MPE-38	14:43		20.26'		
MPE-39	14:46		17.88'		
MPE-40	14:48		18.10'		
MPE-41	14:50		18.77'		
MPE-42	14:53	19.32'	20.39'	1.07'	
MPE-43	15:00	20.35	20.55	0.20'	
MPE-44	15:04	20.44	21.05	0.61'	
MPE-45	15:06	20.61	21.11	0.50	
MPE-46	15:08		21.76'		
MPE-47	15:14	21.11	21.84	0.73'	
MPE-48	15:15		DRY		@20' / Roots?
MPE-49	12:50		19.66		
MPE-50	~~12:50~~ 13:59	20.77	~~19.66~~ 21.17'		
MPE-51	12:56	21.27	21.34'		
MPE-52	12:58	21.04'	21.30'		
MPE-53	13:00	19.71	20.35		
MPE-54	13:03	19.45	19.80		
MPE-55	13:11		18.96'		
MPE-56	13:14		14.37'		
MPE-57	13:16		15.08'		
MPE-58	13:18		15.29'		
MPE-59	13:21		13.99'		
MPE-60	13:23		14.30'		
MPE-61	13:25		14.13'		
MPE-62	13:27		14.20'		
MPE-63	13:33	15.10'	15.79'		
MPE-64	13:37	15.45	15.91'		
MPE-65	13:40	16.21'	16.55		
MPE-66	13:43	16.43'	16.62'		
MPE-67	13:46	16.60	17.33'		
MPE-68	13:49		15.85'		
MPE-69	13:51		15.40'		
MPE-70	13:59	15.67	16.12'		

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: Mike Beauparlant

Project No.: AES 050204
Date:
Time:
Form: 5 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MPE-71	14:02	15.77	16.12		
MPE-72	14:05	16.26'	16.40'		
MPE-73	14:07	15.98'	17.04'		
MPE-74	14:10	14.91	15.73		
MPE-75	14:15	13.94	14.53		
MPE-76	14:19	13.03	13.18'		
MPE-77	14:22	12.55'	12.77'		
MPE-78	14:25	11.43	11.56		
MPE-79	14:30		11.25'		
MPE-80	14:34		8.84'		
MPE-81	14:39	10.58	11.00		
MPE-82	14:41		10.93'		
MPE-83	14:44	12.20	12.79'		
MPE-84	14:50	15.98	16.46'		
MPE-85	14:53	15.83	16.59'		
MPE-86	14:55		17.30'		
MPE-87	15:00		15.84'		
MPE-88	15:02	13.67	14.40'		
MPE-89	15:05	14.69	15.26'		
MPE-90	15:08	14.79	15.37'		

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: Mike Beauparlant

Project No.: AES 050204
Date: 12-27-13
Time:
Form: 3 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
MPE-1	12:40		24.19'		
MPE-2	13:00	22.03'	22.34'	0.31'	
MPE-3	13:02		21.36'		
MPE-4	13:05		20.54'		
MPE-5	13:07	19.80'	20.23'	0.43'	
MPE-6	13:10	20.18	20.42	0.24'	
MPE-7	13:13	21.02	21.04'	0.02'	
MPE-8	13:16		22.33'		
MPE-9	13:20		24.03'		
MPE-10	13:21		23.82		
MPE-11	13:23		DRY		@ 22' TO / ROOTS?
MPE-12	13:26		DRY		@ 22' TO / ROOTS?
MPE-13	13:29		23.22		
MPE-14	13:31	22.35'	22.37'	0.02'	
MPE-16	13:35		20.49'		
MPE-17	13:36		20.68'		
MPE-18	13:38		19.80'		
MPE-19	13:42		19.53'		
MPE-20	13:45		19.25'		
MPE-21	13:50	20.26'	21.24'	0.98'	
MPE-22	13:52	21.20	21.53	0.33'	
MPE-23	13:55	21.28	21.31	0.03'	
MPE-24	13:58	23.18'	23.39'	0.21'	
MPE-25	14:02	23.55	23.57		
MPE-26	14:07	23.22	24.19'	0.92'	
MPE-27	14:14		DRY		@ 22' / ROOTS?
MPE-28	14:15		DRY		@ 22' / ROOTS?
MPE-29	14:17		DRY		@ 19.5 / ROOTS
MPE-30	14:20		DRY		@ 21.5 / ROOTS
MPE-31	14:21		DRY		@ 23.0 / ROOTS
MPE-33	14:25	22.78	23.13'	0.35'	
MPE-34	14:29	22.56	23.15'	0.59'	
MPE-35	14:31	21.15	21.53	0.38'	
MPE-36	14:36	26.33	20.68	0.55'	

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: Mike Beauparlant

Project No.: AES 050204
Date: 11-21-13
Time:
Form: 1 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
TW-1	13:40		31.38'		
TW-2	13:44		29.60'		
TW-3	13:51		DRY		28.25' TD
TW-4	13:56		19.77		
TW-5	14:34		26.18'		
TW-6	14:37		25.37'		
TW-7	14:44	22.82	22.90'	0.08'	
TW-8	14:03		20.27		
TW-9	14:12		12.74'		
TW-10	14:15		12.90		
TW-11	14~~:04~~ 10:04	~~22.82/18.68~~	~~22.90~~ 18.68		
TW-12	15:11	22.92'	23.21'		
TW-13	15:17	21.10'	22.21'		
TW-14	15:25	17.40	18.64'		
TW-15	15:32		13.60'		
TW-16	-	-	-	-	NM. Rooted in @ 11'
TW-17	15:50		10.12'		
TW-18	16:00		16.83'		
TW-19	13:55	18.01	18.79		
TW-20	14:06	17.80	19.91'		
TW-21	14:12	16.86'	17.73'		
TW-22	14:20	15.23'	15.58		
TW-23		-	-		NM Rooted In.
TW-24	14:26		11.16		
TW-25	14:46	14.50'	15.00		
TW-26	14:55	16.19'	17.56		
TW-28	15:02	15.55'	16.92'		
TW-29	15:12	9.41'	9.64'		
TW-30	15:17		5.96'		
TW-31	15:21		7.11'		
TW-32	15:27	9.45	10.60'		
TW-33	15:36	13.11	14.08		
TW-34	11:29	20.40'	20.41		

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: Mike Beauparlant

Project No.: AES 050204
Date:
Time:
Form: 2 of 5

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
TW-35	11:34	15.37	16.63'		
TW-36	11:40	13.16'	13.19'		
TW-37	11:52		10.71'		
TW-38	11:57	11.68	11.73'		
TW-39	12:12		7.91		
TW-40	13:04	7.90	7.92'		
TW-41	13:13		6.18'		
TW-42	13:21		6.05'		
TW-43	13:26		12.28'		
TW-44	13:31	15.02'	16.11'		
TW-45	14:09	~~14.04~~	6.99'		
TW-46	14:06		7.34'		
TW-47	14:19		6.85'		
TW-48*			NM		Booted In.
TW-49	14:28		5.98'		
TW-50	12:20	~~5.07~~ 7.96'	8.38'		
TW-51	14:35		6.94'		
TW-52	14:40		7.31'		
TW-53	14:45		7.06'		
TW-54	14:47		7.54'		
MW-5			DRY		
MW-7	12:26		8.72		
MW-20	14:00		5.99'		
MW-21	14:19		3.65'		

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

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-7

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)*

Project No.: AES 050204
Date: 12-2-13
Arrival Time: 13:30
Air Temp:
T.O.C. Elev. (ft): 5461.17
Total Well Depth (ft): 28.08

If NAPL Present: D.T.P.: 22.82 D.T.W.: 22.90' Thickness: 0.08' Time: 14:44 (11-21-13)

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
							NS-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 (5-40mL Vials 3 w/ HCl preserve, 1 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)
Chloride Sulfate 1-500mL nonpreserved

8 labels

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-8	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:** 12-2-13
Project: Groundwater Monitoring and Sampling **Arrival Time:**
Sampling Technician: **Air Temp:**
Purge / No Purge: Purge **T.O.C. Elev. (ft):** 5458.29
Well Diameter (in): 2 **Total Well Depth (ft):** 27.61
Initial D.T.W. (ft): **Time:** *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 20.27 **Time:** 14:03 (11-21) *(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
10:23	10.98°	1.219	0.44	7.86	-216.1		

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) 3 VIAL
GRO and DRO per EPA Methods 8015 (5-40 mL Vials 3 w/ HCl preserve, 2 w/o perserve) 1 NON
RCRA 8 Metals per EPA Methods 6010/7470 (500 mL w/ HNO3 preserve)
Dissolved Metals per EPA Methods 6010 (125 mL w/ HNO3 preserve) FILTERED
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-13	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.: 21.10 D.T.W.: 22.21' Thickness: 1.11' Time: 15:17 (11-21)

Project No.: AES 050204
Date: 12-3-13
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5458.17
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
							NS - /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 (5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-14	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:** 12-3-13
Project: Groundwater Monitoring and Sampling **Arrival Time:**
Sampling Technician: **Air Temp:**
Purge / No Purge: Purge **T.O.C. Elev. (ft):** 5454.24
Well Diameter (in): 2 **Total Well Depth (ft):**
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.:** 17.40 **D.T.W.:** 18.64 **Thickness:** 1.24' **Time:** 15:25 (11-21)

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
							NS / NAPL

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

BBTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-18	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:** 12-3-13
Project: Groundwater Monitoring and Sampling **Arrival Time:**
Sampling Technician: **Air Temp:**
Purge / No Purge: Purge **T.O.C. Elev. (ft):** 5452.73
Well Diameter (in): 2 **Total Well Depth (ft):**
Initial D.T.W. (ft): **Time:** *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 16.83' **Time:** 16:00 (11-21) *(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
11:42	14.33°	2.448	0.23	8.0	84.8		

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 (5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-19	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:** 12-3-13
Project: Groundwater Monitoring and Sampling **Arrival Time:**
Sampling Technician: **Air Temp:**
Purge / No Purge: Purge **T.O.C. Elev. (ft):** 5458.49
Well Diameter (in): 2 **Total Well Depth (ft):**
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.:** 18.01 **D.T.W.:** 18.79 **Thickness:** 0.78 **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
							NS / 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 (5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-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:
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.: 17.80 D.T.W.: 19.91 Thickness: 2.11 Time: 14:06

Project No.: AES 050204
Date: 12-3-13
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5453.74
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)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-22	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:** 12-3-13
Project: Groundwater Monitoring and Sampling **Arrival Time:**
Sampling Technician: **Air Temp:**
Purge / No Purge: Purge **T.O.C. Elev. (ft):** 5450.19
Well Diameter (in): 2 **Total Well Depth (ft):**
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.:** 15.23 **D.T.W.:** 15.58 **Thickness:** 0.35 **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
							NS / 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 (5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-23

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: 10-3-13
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5443.64
Total Well Depth (ft): 15.48

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
							NM/NS/Roots In

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 (5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-24	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:** 12-3-13
Project: Groundwater Monitoring and Sampling **Arrival Time:**
Sampling Technician: **Air Temp:**
Purge / No Purge: Purge **T.O.C. Elev. (ft):** 5444.79
Well Diameter (in): 2 **Total Well Depth (ft):** 17.45
Initial D.T.W. (ft): **Time:** *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 11.16 **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:**

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
							NS - NOT LISTED

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 (5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-25	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.: 14.50 D.T.W.: 15.00 Thickness: 0.50 Time:

Project No.: AES 050204
Date:
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5448.8
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)

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
GRO and DRO per EPA Methods 8015 (5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-26	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:** 12-3-13
Project: Groundwater Monitoring and Sampling **Arrival Time:**
Sampling Technician: **Air Temp:**
Purge / No Purge: Purge **T.O.C. Elev. (ft):** 5450.34
Well Diameter (in): 2 **Total Well Depth (ft):**
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.:** 16.19 **D.T.W.:** 17.56 **Thickness:** 1.37 **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
							NS / 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 (5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-28	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:** 12-3-13
Project: Groundwater Monitoring and Sampling **Arrival Time:**
Sampling Technician: **Air Temp:**
Purge / No Purge: Purge **T.O.C. Elev. (ft):** 5449.24
Well Diameter (in): 2 **Total Well Depth (ft):**
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.:** 16.55 **D.T.W.:** 16.92 **Thickness:** 1.37 **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

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 (5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-29

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.: 9.41' D.T.W.: 9.64' Thickness: 0.23 Time:

Project No.: AES 050204
Date: 12-3-13
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5441.87
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
							NS/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 (5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-30	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): 5.96' Time: 15:17 (11-22) *(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: 12-3-13
Arrival Time:
Air Temp:
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
13:30	12.71	2.996	0.20	8.03	17.2		

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 (5-40 mL Vials 3 w/ HCl preserve, 2 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
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): 7.11' **Time:** 15:21 *(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: 12.3.03
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5438.54
Total Well Depth (ft): 12.96

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
14:18	13.53°	3.110	0.24	8.02	113.7		

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 (5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-32

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.: 9.45' D.T.W.: 10.60 Thickness: 1.15' Time:

Project No.: AES 050204
Date:
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5441.61
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
							WS/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 (5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-33	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:**
Project: Groundwater Monitoring and Sampling **Arrival Time:**
Sampling Technician: **Air Temp:**
Purge / No Purge: Purge **T.O.C. Elev. (ft):** 5445.85
Well Diameter (in): 2 **Total Well Depth (ft):**
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.:** 13.11 **D.T.W.:** 14.08 **Thickness:** 0.97' **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
							WS / 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 (5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-36	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.: 13.16' D.T.W.: 13.19' Thickness: 0.03' Time:

Project No.: AES 050204
Date: 12-3-13
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5441.91
Total Well Depth (ft): 20.35

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/map2

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 (5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-37	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:** 12-3-13
Project: Groundwater Monitoring and Sampling **Arrival Time:**
Sampling Technician: **Air Temp:**
Purge / No Purge: Purge **T.O.C. Elev. (ft):** 5439.59
Well Diameter (in): 2 **Total Well Depth (ft):** 16.5
Initial D.T.W. (ft): **Time:** *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 10.71' **Time:** 11:52 (11:25) *(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
14:55	~~11.58°~~	~~0.042~~	~~1.~~				
	14.61	2.447	0.21	8.23	-79.4		

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 (5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per EPA Method 2540C (1-500mL plastic w/ no 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-38	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:** ~~12-3-13~~
Project: Groundwater Monitoring and Sampling **Arrival Time:**
Sampling Technician: **Air Temp:**
Purge / No Purge: Purge **T.O.C. Elev. (ft):** 5442.11
Well Diameter (in): 2 **Total Well Depth (ft):** 15.5
Initial D.T.W. (ft): **Time:** *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 7.91' **Time:** ~~12:12~~ (11:25) *(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.:** 11.73 **Thickness:** 0.05 **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

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 (5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-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:
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): 7.91 Time: 12:12 (11:25) *(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: 12-3-13
Arrival Time:
Air Temp:
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
15:25	13.58°	2.843	0.09	8.07	116.5		

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 (5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-40

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.: 7.90 D.T.W.: 7.92 **Thickness:** 0.02' **Time:**

Project No.: AES 050204
Date:
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5437.5
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
							NS / 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 (5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-41	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:** 12-3-13
Project: Groundwater Monitoring and Sampling — **Arrival Time:**
Sampling Technician: — **Air Temp:**
Purge / No Purge: Purge — **T.O.C. Elev. (ft):** 5434.77
Well Diameter (in): 2 — **Total Well Depth (ft):**
Initial D.T.W. (ft): — **Time:** — *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 6.18' — **Time:** 13:13 (11-25) *(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
16:05	12.57°	4.928	0.13	7.90	38.1		

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 (5-40 mL Vials 3 w/ HCl preserve, 2 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: 08/10/99~~

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:
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): 6.05' **Time:** 13:21 (11-25) *(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: 12-4-13
Arrival Time:
Air Temp:
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
11:15	10.29°c	2.229	0.34	8.06	59.1		

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 (5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-43	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:** 12-4-13
Project: Groundwater Monitoring and Sampling **Arrival Time:**
Sampling Technician: **Air Temp:**
Purge / No Purge: Purge **T.O.C. Elev. (ft):** 5440.42
Well Diameter (in): 2 **Total Well Depth (ft):** 18.86
Initial D.T.W. (ft): **Time:** *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 12.28' **Time:** 13:26 (11-25) *(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
11:50	12.69°	3.034	0.41	7.92	96.1		

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 (5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-44	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:**
Project: Groundwater Monitoring and Sampling **Arrival Time:**
Sampling Technician: **Air Temp:**
Purge / No Purge: Purge **T.O.C. Elev. (ft):** 5444.08
Well Diameter (in): 2 **Total Well Depth (ft):** 20.45
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.:** 15.02' **D.T.W.:** 16.11 **Thickness:** 1.09' **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
							NS / 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 (5-40mL Vials 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-45

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): 6.99 **Time:** 14.04 (11:25) *(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: 12-4-13
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
13:00	9.92°	3.089	0.38	8.03	-224.0		

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 (5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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:
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): 7.34' **Time:** 14:06 (11-25) *(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: 12-4-13
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
13:25	10.91°c	3.780	0.50	8.15	-0.2		

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 (5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-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:
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): 6.83' **Time:** 14.14 (11-25) *(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: 12-4-13
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
13:55	10.17°	6.577	0.52	8.15	42.6		

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 (5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per EPA Method 2540C (1-500mL plastic w/ no 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-48

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: 12-3-13
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
							NM / Rooted In

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 (5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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:
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): 5.98' Time: 14:28 *(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: 12-4-13
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
14:36	7.39°	5.430	0.68	8.07	80.8		

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 (5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-50	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): 6.94 Time: 14:38 (11-25) *(taken prior to purging well)*
Final D.T.W. (ft): Time: *(taken after sample collection)*
If NAPL Present: D.T.P.: 7.96' D.T.W.: 8.38' Thickness: 0.42 Time:

Project No.: AES 050204
Date: ~~12-5-13~~ 12-5-13
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
~~11:50~~	~~10.58~~	~~3.96~~	~~0.13~~	~~7.83~~	~~32.0~~		NS: 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 (5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-51	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): 6.94 Time: 14:35 (11-25) *(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: 12-5-13
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
11:50	10.58°	3.961	0.13	7.83	32.0		

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 (5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per EPA Method 2540C (1-500mL plastic w/ no 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-52

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:
Confirm D.T.W. (ft): 7.31' Time: 14:40 (11:25) *(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: 12-5-13
Arrival Time:
Air Temp:
T.O.C. Elev. (ft):
Total Well Depth (ft):
(taken at initial gauging of all wells)

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
12:25	9.19	7.811	0.22	7.90	153.3		

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 (5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per EPA Method 2540C (1-500mL plastic w/ no 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-53	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): 7.06' Time: 14:45 (11-25) *(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: 12-5-13
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
14:55	10.12°	5.317	0.18	8.01	130.4		

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 (5-40 mL Vials 3 w/ HCl preserve, 2 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-54	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): 7.54' **Time:** 14:47 (11-25) *(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: 12-6-13
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
09:43	9.11°	3.632	0.10	7.91	79.4		

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 (5-40 mL Vials 3 w/ HCl preserve, 2 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-5

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):
Initial D.T.W. (ft): **Time:** *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): DRY **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: 12-5-13
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5428.97
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
							NS-DRY

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 (5-40 mL Vials 3 w/ HCl preserve, 2 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: MW-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:** 12-4-13
Project: Groundwater Monitoring and Sampling **Arrival Time:**
Sampling Technician: **Air Temp:**
Purge / No Purge: Purge **T.O.C. Elev. (ft):** 5435.28
Well Diameter (in): **Total Well Depth (ft):**
Initial D.T.W. (ft): **Time:** *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 8.72' **Time:** 12:25 (11-25) *(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
11:40	10.75°	8.218	0.18	8.12	-141.4		

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 (5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)

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-20	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:** 12-6-13
Project: Groundwater Monitoring and Sampling **Arrival Time:**
Sampling Technician: **Air Temp:**
Purge / No Purge: Purge **T.O.C. Elev. (ft):** 5430.45
Well Diameter (in): **Total Well Depth (ft):**
Initial D.T.W. (ft): **Time:** *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 5.99' **Time:** 14:00 *(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
1015	9.49°	4.657	0.10	8.01	54.1		

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 (5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per EPA Method 2540C (1-500mL plastic w/ no 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-21

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):
Initial D.T.W. (ft): Time: *(taken at initial gauging of all wells)*
Confirm D.T.W. (ft): 3.65 Time: 14:19 (11-25) *(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: 12-6-13
Arrival Time:
Air Temp:
T.O.C. Elev. (ft): 5428.62
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
11:00	10.40°	4.301	0.13	7.92	135.5		

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 (5-40mL Vials, 3 w/ HCl preserve, 2 w/o perserve)
SVOCs per EPA Methods 8270 (1 L Amber w/o perserve)
Chloride/Sulfate per EPA Method 300.0 & TDS per EPA Method 2540C (1-500mL plastic w/ no 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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 18, 2013

Debbie Watson

Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-4071
FAX

RE: Former Thriftway Refinery #810 OrderNo.: 1312290

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 9 sample(s) on 12/6/2013 for the analyses presented in the following report.

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. In order to properly interpret your results it is imperative that you review this report in its entirety. 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. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-42
Project: Former Thriftway Refinery #810
Collection Date: 12/4/2013 11:15:00 AM
Lab ID: 1312290-001
Matrix: AQUEOUS
Received Date: 12/6/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/10/2013 2:41:13 AM	10697
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/10/2013 2:41:13 AM	10697
Surr: DNOP	107	70.1-140		%REC	1	12/10/2013 2:41:13 AM	10697
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/12/2013 4:18:57 PM	R15470
Surr: BFB	88.9	80.4-118		%REC	1	12/12/2013 4:18:57 PM	R15470
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	12/11/2013 6:49:06 PM	R15433
Toluene	ND	1.0		µg/L	1	12/11/2013 6:49:06 PM	R15433
Ethylbenzene	ND	1.0		µg/L	1	12/11/2013 6:49:06 PM	R15433
Methyl tert-butyl ether (MTBE)	7.4	1.0		µg/L	1	12/11/2013 6:49:06 PM	R15433
Naphthalene	ND	2.0		µg/L	1	12/11/2013 6:49:06 PM	R15433
1-Methylnaphthalene	ND	4.0		µg/L	1	12/11/2013 6:49:06 PM	R15433
2-Methylnaphthalene	ND	4.0		µg/L	1	12/11/2013 6:49:06 PM	R15433
Xylenes, Total	ND	1.5		µg/L	1	12/11/2013 6:49:06 PM	R15433
Surr: 1,2-Dichloroethane-d4	94.1	70-130		%REC	1	12/11/2013 6:49:06 PM	R15433
Surr: 4-Bromofluorobenzene	111	70-130		%REC	1	12/11/2013 6:49:06 PM	R15433
Surr: Dibromofluoromethane	97.1	70-130		%REC	1	12/11/2013 6:49:06 PM	R15433
Surr: Toluene-d8	95.6	70-130		%REC	1	12/11/2013 6:49:06 PM	R15433

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-43
Project: Former Thriftway Refinery #810
Collection Date: 12/4/2013 11:50:00 AM
Lab ID: 1312290-002 **Matrix:** AQUEOUS **Received Date:** 12/6/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/10/2013 3:02:29 AM	10697
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/10/2013 3:02:29 AM	10697
Surr: DNOP	103	70.1-140		%REC	1	12/10/2013 3:02:29 AM	10697
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	0.29	0.050		mg/L	1	12/12/2013 4:49:04 PM	R15470
Surr: BFB	86.1	80.4-118		%REC	1	12/12/2013 4:49:04 PM	R15470
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	12/11/2013 7:46:38 PM	R15433
Toluene	ND	1.0		µg/L	1	12/11/2013 7:46:38 PM	R15433
Ethylbenzene	ND	1.0		µg/L	1	12/11/2013 7:46:38 PM	R15433
Methyl tert-butyl ether (MTBE)	410	10		µg/L	10	12/11/2013 7:17:46 PM	R15433
Naphthalene	ND	2.0		µg/L	1	12/11/2013 7:46:38 PM	R15433
1-Methylnaphthalene	ND	4.0		µg/L	1	12/11/2013 7:46:38 PM	R15433
2-Methylnaphthalene	ND	4.0		µg/L	1	12/11/2013 7:46:38 PM	R15433
Xylenes, Total	ND	1.5		µg/L	1	12/11/2013 7:46:38 PM	R15433
Surr: 1,2-Dichloroethane-d4	98.3	70-130		%REC	1	12/11/2013 7:46:38 PM	R15433
Surr: 4-Bromofluorobenzene	108	70-130		%REC	1	12/11/2013 7:46:38 PM	R15433
Surr: Dibromofluoromethane	102	70-130		%REC	1	12/11/2013 7:46:38 PM	R15433
Surr: Toluene-d8	96.1	70-130		%REC	1	12/11/2013 7:46:38 PM	R15433

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-45
Project: Former Thriftway Refinery #810
Collection Date: 12/4/2013 1:00:00 PM
Lab ID: 1312290-003 **Matrix:** AQUEOUS **Received Date:** 12/6/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/10/2013 3:45:23 AM	10697
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/10/2013 3:45:23 AM	10697
Surr: DNOP	112	70.1-140		%REC	1	12/10/2013 3:45:23 AM	10697
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	0.13	0.050		mg/L	1	12/12/2013 5:18:57 PM	R15470
Surr: BFB	88.4	80.4-118		%REC	1	12/12/2013 5:18:57 PM	R15470
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	12/11/2013 8:44:05 PM	R15433
Toluene	ND	1.0		µg/L	1	12/11/2013 8:44:05 PM	R15433
Ethylbenzene	ND	1.0		µg/L	1	12/11/2013 8:44:05 PM	R15433
Methyl tert-butyl ether (MTBE)	97	1.0		µg/L	1	12/11/2013 8:44:05 PM	R15433
Naphthalene	ND	2.0		µg/L	1	12/11/2013 8:44:05 PM	R15433
1-Methylnaphthalene	ND	4.0		µg/L	1	12/11/2013 8:44:05 PM	R15433
2-Methylnaphthalene	ND	4.0		µg/L	1	12/11/2013 8:44:05 PM	R15433
Xylenes, Total	ND	1.5		µg/L	1	12/11/2013 8:44:05 PM	R15433
Surr: 1,2-Dichloroethane-d4	98.6	70-130		%REC	1	12/11/2013 8:44:05 PM	R15433
Surr: 4-Bromofluorobenzene	103	70-130		%REC	1	12/11/2013 8:44:05 PM	R15433
Surr: Dibromofluoromethane	102	70-130		%REC	1	12/11/2013 8:44:05 PM	R15433
Surr: Toluene-d8	93.1	70-130		%REC	1	12/11/2013 8:44:05 PM	R15433

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: Former Thriftway Refinery #810
Lab ID: 1312290-004 **Matrix:** AQUEOUS

Client Sample ID: TW-46
Collection Date: 12/4/2013 1:25:00 PM
Received Date: 12/6/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/10/2013 4:06:33 AM	10697
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/10/2013 4:06:33 AM	10697
Surr: DNOP	106	70.1-140		%REC	1	12/10/2013 4:06:33 AM	10697
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/12/2013 5:51:00 PM	R15470
Surr: BFB	82.3	80.4-118		%REC	1	12/12/2013 5:51:00 PM	R15470
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	12/11/2013 9:12:40 PM	R15433
Toluene	ND	1.0		µg/L	1	12/11/2013 9:12:40 PM	R15433
Ethylbenzene	ND	1.0		µg/L	1	12/11/2013 9:12:40 PM	R15433
Methyl tert-butyl ether (MTBE)	7.6	1.0		µg/L	1	12/11/2013 9:12:40 PM	R15433
Naphthalene	ND	2.0		µg/L	1	12/11/2013 9:12:40 PM	R15433
1-Methylnaphthalene	ND	4.0		µg/L	1	12/11/2013 9:12:40 PM	R15433
2-Methylnaphthalene	ND	4.0		µg/L	1	12/11/2013 9:12:40 PM	R15433
Xylenes, Total	ND	1.5		µg/L	1	12/11/2013 9:12:40 PM	R15433
Surr: 1,2-Dichloroethane-d4	91.5	70-130		%REC	1	12/11/2013 9:12:40 PM	R15433
Surr: 4-Bromofluorobenzene	107	70-130		%REC	1	12/11/2013 9:12:40 PM	R15433
Surr: Dibromofluoromethane	97.1	70-130		%REC	1	12/11/2013 9:12:40 PM	R15433
Surr: Toluene-d8	97.3	70-130		%REC	1	12/11/2013 9:12:40 PM	R15433

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-47
Project: Former Thriftway Refinery #810
Collection Date: 12/4/2013 1:55:00 PM
Lab ID: 1312290-005 **Matrix:** AQUEOUS **Received Date:** 12/6/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/10/2013 4:27:52 AM	10697
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/10/2013 4:27:52 AM	10697
Surr: DNOP	83.8	70.1-140		%REC	1	12/10/2013 4:27:52 AM	10697
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/12/2013 6:21:19 PM	R15470
Surr: BFB	83.2	80.4-118		%REC	1	12/12/2013 6:21:19 PM	R15470
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	1100	50		mg/L	100	12/10/2013 6:20:36 PM	R15410
Sulfate	3700	50		mg/L	100	12/10/2013 6:20:36 PM	R15410
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	12/11/2013 9:41:18 PM	R15433
Toluene	ND	1.0		µg/L	1	12/11/2013 9:41:18 PM	R15433
Ethylbenzene	ND	1.0		µg/L	1	12/11/2013 9:41:18 PM	R15433
Methyl tert-butyl ether (MTBE)	1.3	1.0		µg/L	1	12/11/2013 9:41:18 PM	R15433
Naphthalene	ND	2.0		µg/L	1	12/11/2013 9:41:18 PM	R15433
1-Methylnaphthalene	ND	4.0		µg/L	1	12/11/2013 9:41:18 PM	R15433
2-Methylnaphthalene	ND	4.0		µg/L	1	12/11/2013 9:41:18 PM	R15433
Xylenes, Total	ND	1.5		µg/L	1	12/11/2013 9:41:18 PM	R15433
Surr: 1,2-Dichloroethane-d4	93.9	70-130		%REC	1	12/11/2013 9:41:18 PM	R15433
Surr: 4-Bromofluorobenzene	108	70-130		%REC	1	12/11/2013 9:41:18 PM	R15433
Surr: Dibromofluoromethane	98.8	70-130		%REC	1	12/11/2013 9:41:18 PM	R15433
Surr: Toluene-d8	96.9	70-130		%REC	1	12/11/2013 9:41:18 PM	R15433
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	7790	200	*	mg/L	1	12/11/2013 12:18:00 PM	10728

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: Former Thriftway Refinery #810
Lab ID: 1312290-006 **Matrix:** AQUEOUS

Client Sample ID: TW-49
Collection Date: 12/4/2013 2:35:00 PM
Received Date: 12/6/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/10/2013 4:49:04 AM	10697
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/10/2013 4:49:04 AM	10697
Surr: DNOP	98.3	70.1-140		%REC	1	12/10/2013 4:49:04 AM	10697
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.50		mg/L	10	12/12/2013 10:52:55 PM	R15470
Surr: BFB	85.4	80.4-118		%REC	10	12/12/2013 10:52:55 PM	R15470
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	880	50		mg/L	100	12/10/2013 6:33:01 PM	R15410
Sulfate	3100	50		mg/L	100	12/10/2013 6:33:01 PM	R15410
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	10		µg/L	10	12/11/2013 11:36:10 PM	R15433
Toluene	ND	10		µg/L	10	12/11/2013 11:36:10 PM	R15433
Ethylbenzene	ND	10		µg/L	10	12/11/2013 11:36:10 PM	R15433
Methyl tert-butyl ether (MTBE)	11	10		µg/L	10	12/11/2013 11:36:10 PM	R15433
Naphthalene	ND	20		µg/L	10	12/11/2013 11:36:10 PM	R15433
1-Methylnaphthalene	ND	40		µg/L	10	12/11/2013 11:36:10 PM	R15433
2-Methylnaphthalene	ND	40		µg/L	10	12/11/2013 11:36:10 PM	R15433
Xylenes, Total	ND	15		µg/L	10	12/11/2013 11:36:10 PM	R15433
Surr: 1,2-Dichloroethane-d4	97.2	70-130		%REC	10	12/11/2013 11:36:10 PM	R15433
Surr: 4-Bromofluorobenzene	110	70-130		%REC	10	12/11/2013 11:36:10 PM	R15433
Surr: Dibromofluoromethane	103	70-130		%REC	10	12/11/2013 11:36:10 PM	R15433
Surr: Toluene-d8	95.0	70-130		%REC	10	12/11/2013 11:36:10 PM	R15433

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-51
Project: Former Thriftway Refinery #810
Collection Date: 12/5/2013 11:55:00 AM
Lab ID: 1312290-007
Matrix: AQUEOUS
Received Date: 12/6/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/10/2013 5:10:15 AM	10697
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/10/2013 5:10:15 AM	10697
Surr: DNOP	98.9	70.1-140		%REC	1	12/10/2013 5:10:15 AM	10697
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	0.31	0.050		mg/L	1	12/12/2013 11:23:12 PM	R15470
Surr: BFB	90.9	80.4-118		%REC	1	12/12/2013 11:23:12 PM	R15470
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	240	10		mg/L	20	12/9/2013 8:08:08 PM	R15376
Sulfate	2700	50		mg/L	100	12/10/2013 7:10:16 PM	R15410
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	12/12/2013 12:33:41 AM	R15433
Toluene	ND	1.0		µg/L	1	12/12/2013 12:33:41 AM	R15433
Ethylbenzene	ND	1.0		µg/L	1	12/12/2013 12:33:41 AM	R15433
Methyl tert-butyl ether (MTBE)	300	10		µg/L	10	12/12/2013 12:04:52 AM	R15433
Naphthalene	ND	2.0		µg/L	1	12/12/2013 12:33:41 AM	R15433
1-Methylnaphthalene	ND	4.0		µg/L	1	12/12/2013 12:33:41 AM	R15433
2-Methylnaphthalene	ND	4.0		µg/L	1	12/12/2013 12:33:41 AM	R15433
Xylenes, Total	ND	1.5		µg/L	1	12/12/2013 12:33:41 AM	R15433
Surr: 1,2-Dichloroethane-d4	97.7	70-130		%REC	1	12/12/2013 12:33:41 AM	R15433
Surr: 4-Bromofluorobenzene	108	70-130		%REC	1	12/12/2013 12:33:41 AM	R15433
Surr: Dibromofluoromethane	103	70-130		%REC	1	12/12/2013 12:33:41 AM	R15433
Surr: Toluene-d8	95.0	70-130		%REC	1	12/12/2013 12:33:41 AM	R15433

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-52
Project: Former Thriftway Refinery #810
Collection Date: 12/5/2013 12:25:00 PM
Lab ID: 1312290-008 **Matrix:** AQUEOUS **Received Date:** 12/6/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/10/2013 5:31:31 AM	10697
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/10/2013 5:31:31 AM	10697
Surr: DNOP	103	70.1-140		%REC	1	12/10/2013 5:31:31 AM	10697
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	0.075	0.050		mg/L	1	12/12/2013 11:53:32 PM	R15470
Surr: BFB	86.3	80.4-118		%REC	1	12/12/2013 11:53:32 PM	R15470
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	12/12/2013 1:59:43 AM	R15433
Toluene	ND	1.0		µg/L	1	12/12/2013 1:59:43 AM	R15433
Ethylbenzene	ND	1.0		µg/L	1	12/12/2013 1:59:43 AM	R15433
Methyl tert-butyl ether (MTBE)	76	1.0		µg/L	1	12/12/2013 1:59:43 AM	R15433
Naphthalene	ND	2.0		µg/L	1	12/12/2013 1:59:43 AM	R15433
1-Methylnaphthalene	ND	4.0		µg/L	1	12/12/2013 1:59:43 AM	R15433
2-Methylnaphthalene	ND	4.0		µg/L	1	12/12/2013 1:59:43 AM	R15433
Xylenes, Total	ND	1.5		µg/L	1	12/12/2013 1:59:43 AM	R15433
Surr: 1,2-Dichloroethane-d4	95.1	70-130		%REC	1	12/12/2013 1:59:43 AM	R15433
Surr: 4-Bromofluorobenzene	107	70-130		%REC	1	12/12/2013 1:59:43 AM	R15433
Surr: Dibromofluoromethane	102	70-130		%REC	1	12/12/2013 1:59:43 AM	R15433
Surr: Toluene-d8	93.4	70-130		%REC	1	12/12/2013 1:59:43 AM	R15433

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-53
Project: Former Thriftway Refinery #810
Collection Date: 12/5/2013 2:55:00 PM
Lab ID: 1312290-009
Matrix: AQUEOUS
Received Date: 12/6/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/10/2013 5:52:55 AM	10697
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/10/2013 5:52:55 AM	10697
Surr: DNOP	106	70.1-140		%REC	1	12/10/2013 5:52:55 AM	10697
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/13/2013 12:23:46 AM	R15470
Surr: BFB	86.3	80.4-118		%REC	1	12/13/2013 12:23:46 AM	R15470
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	0.27	0.10		mg/L	1	12/9/2013 8:20:33 PM	R15376
Chloride	210	10		mg/L	20	12/9/2013 8:32:58 PM	R15376
Bromide	0.81	0.10		mg/L	1	12/9/2013 8:20:33 PM	R15376
Sulfate	3700	50		mg/L	100	12/10/2013 7:22:41 PM	R15410
SM2340B: HARDNESS						Analyst: **ELS**	
Hardness (As CaCO3)	1100	6.6		mg/L	1	12/9/2013 8:30:00 AM	R15348
EPA METHOD 7470: MERCURY						Analyst: **JML**	
Mercury	ND	0.00020		mg/L	1	12/8/2013 7:11:06 PM	10703
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **ELS**	
Calcium	320	5.0		mg/L	5	12/9/2013 12:21:00 PM	R15348
Magnesium	68	1.0		mg/L	1	12/9/2013 10:48:50 AM	R15348
Potassium	5.7	1.0		mg/L	1	12/9/2013 10:48:50 AM	R15348
Sodium	1600	100		mg/L	100	12/9/2013 12:23:57 PM	R15348
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **JLF**	
Arsenic	0.28	0.020		mg/L	1	12/9/2013 4:50:59 PM	10704
Barium	0.33	0.020		mg/L	1	12/9/2013 4:50:59 PM	10704
Cadmium	ND	0.0020		mg/L	1	12/9/2013 4:50:59 PM	10704
Chromium	0.013	0.0060		mg/L	1	12/9/2013 4:50:59 PM	10704
Lead	ND	0.0050		mg/L	1	12/9/2013 4:50:59 PM	10704
Selenium	ND	0.050		mg/L	1	12/9/2013 4:50:59 PM	10704
Silver	ND	0.0050		mg/L	1	12/9/2013 4:50:59 PM	10704
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Benzene	ND	1.0		µg/L	1	12/12/2013 2:57:12 AM	R15433
Toluene	ND	1.0		µg/L	1	12/12/2013 2:57:12 AM	R15433
Ethylbenzene	ND	1.0		µg/L	1	12/12/2013 2:57:12 AM	R15433
Methyl tert-butyl ether (MTBE)	12	1.0		µg/L	1	12/12/2013 2:57:12 AM	R15433
Naphthalene	ND	2.0		µg/L	1	12/12/2013 2:57:12 AM	R15433
1-Methylnaphthalene	ND	4.0		µg/L	1	12/12/2013 2:57:12 AM	R15433
2-Methylnaphthalene	ND	4.0		µg/L	1	12/12/2013 2:57:12 AM	R15433

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-53
Project: Former Thriftway Refinery #810
Collection Date: 12/5/2013 2:55:00 PM
Lab ID: 1312290-009 **Matrix:** AQUEOUS **Received Date:** 12/6/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **cadg**	
Xylenes, Total	ND	1.5		µg/L	1	12/12/2013 2:57:12 AM	R15433
Surr: 1,2-Dichloroethane-d4	97.4	70-130		%REC	1	12/12/2013 2:57:12 AM	R15433
Surr: 4-Bromofluorobenzene	108	70-130		%REC	1	12/12/2013 2:57:12 AM	R15433
Surr: Dibromofluoromethane	107	70-130		%REC	1	12/12/2013 2:57:12 AM	R15433
Surr: Toluene-d8	95.6	70-130		%REC	1	12/12/2013 2:57:12 AM	R15433
SM2510B: SPECIFIC CONDUCTANCE						Analyst: **JML**	
Conductivity	7400	0.010		µmhos/cm	1	12/9/2013 6:48:50 PM	R15383
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	6200	200	*	mg/L	1	12/11/2013 12:18:00 PM	10728

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312290**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **A4**	SampType: **CCV_4**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15376**	RunNo: **15376**
Prep Date:	Analysis Date: **12/9/2013**	SeqNo: **443035** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.94	0.10	1.000	0	94.4	90	110			
Chloride	4.6	0.50	5.000	0	92.3	90	110			
Bromide	4.8	0.10	5.000	0	96.7	90	110			

Sample ID **A5**	SampType: **CCV_5**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15376**	RunNo: **15376**
Prep Date:	Analysis Date: **12/9/2013**	SeqNo: **443047** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.5	0.10	1.600	0	96.2	90	110			
Chloride	7.7	0.50	8.000	0	96.6	90	110			
Bromide	8.0	0.10	8.000	0	99.7	90	110			

Sample ID **A6**	SampType: **CCV_6**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15376**	RunNo: **15376**
Prep Date:	Analysis Date: **12/9/2013**	SeqNo: **443059** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.3	0.10	2.400	0	96.4	90	110			
Chloride	12	0.50	12.00	0	101	90	110			
Bromide	12	0.10	12.00	0	102	90	110			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R15376**	RunNo: **15376**
Prep Date:	Analysis Date: **12/9/2013**	SeqNo: **443069** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Bromide	ND	0.10								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R15376**	RunNo: **15376**
Prep Date:	Analysis Date: **12/9/2013**	SeqNo: **443070** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.47	0.10	0.5000	0	94.1	90	110			
Chloride	4.7	0.50	5.000	0	93.5	90	110			
Bromide	2.5	0.10	2.500	0	98.7	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312290**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **A4**	SampType: **CCV_4**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **BatchQC**	Batch ID: **R15376**	RunNo: **15376**							
Prep Date:	Analysis Date: **12/9/2013**	SeqNo: **443071**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.94	0.10	1.000	0	94.3	90	110			
Chloride	4.6	0.50	5.000	0	92.6	90	110			
Bromide	4.9	0.10	5.000	0	97.3	90	110			

Sample ID **A5**	SampType: **CCV_5**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **BatchQC**	Batch ID: **R15410**	RunNo: **15410**							
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443898**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	7.7	0.50	8.000	0	96.7	90	110			
Sulfate	19	0.50	20.00	0	97.5	90	110			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R15410**	RunNo: **15410**							
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443900**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R15410**	RunNo: **15410**							
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443901**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.6	90	110			
Sulfate	9.5	0.50	10.00	0	94.5	90	110			

Sample ID **A6**	SampType: **CCV_6**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **BatchQC**	Batch ID: **R15410**	RunNo: **15410**							
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443910**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	12	0.50	12.00	0	101	90	110			
Sulfate	31	0.50	30.00	0	102	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312290**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **A4**	SampType: **CCV_4**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15410**	RunNo: **15410**
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443922** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.5	90	110			
Sulfate	12	0.50	12.50	0	93.8	90	110			

Sample ID **A5**	SampType: **CCV_5**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15410**	RunNo: **15410**
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443934** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	7.7	0.50	8.000	0	96.5	90	110			
Sulfate	20	0.50	20.00	0	98.2	90	110			

Sample ID **A6**	SampType: **CCV_6**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15410**	RunNo: **15410**
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443944** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	12	0.50	12.00	0	101	90	110			
Sulfate	31	0.50	30.00	0	102	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312290**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **MB-10667**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range**							
Client ID: **PBW**	Batch ID: **10667**	RunNo: **15333**							
Prep Date: **12/5/2013**	Analysis Date: **12/9/2013**	SeqNo: **442400**	Units: **%REC**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	1.1		1.000		112	70.1	140			

Sample ID **LCS-10667**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range**							
Client ID: **LCSW**	Batch ID: **10667**	RunNo: **15333**							
Prep Date: **12/5/2013**	Analysis Date: **12/9/2013**	SeqNo: **442401**	Units: **%REC**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	0.60		0.5000		121	70.1	140			

Sample ID **LCSD-10667**	SampType: **LCSD**	TestCode: **EPA Method 8015D: Diesel Range**							
Client ID: **LCSS02**	Batch ID: **10667**	RunNo: **15333**							
Prep Date: **12/5/2013**	Analysis Date: **12/9/2013**	SeqNo: **442402**	Units: **%REC**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	0.59		0.5000		118	70.1	140	0	0	

Sample ID **LCS-10697**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range**							
Client ID: **LCSW**	Batch ID: **10697**	RunNo: **15333**							
Prep Date: **12/8/2013**	Analysis Date: **12/10/2013**	SeqNo: **443112**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.1	1.0	5.000	0	122	73.3	145			
Surr: DNOP	0.56		0.5000		112	70.1	140			

Sample ID **LCSD-10697**	SampType: **LCSD**	TestCode: **EPA Method 8015D: Diesel Range**							
Client ID: **LCSS02**	Batch ID: **10697**	RunNo: **15333**							
Prep Date: **12/8/2013**	Analysis Date: **12/10/2013**	SeqNo: **443113**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.1	1.0	5.000	0	122	73.3	145	0.0655	20	
Surr: DNOP	0.56		0.5000		111	70.1	140	0	0	

Sample ID **MB-10697**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range**							
Client ID: **PBW**	Batch ID: **10697**	RunNo: **15333**							
Prep Date: **12/8/2013**	Analysis Date: **12/10/2013**	SeqNo: **443115**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.99		1.000		99.4	70.1	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312290**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **R15470**	RunNo: **15470**
Prep Date:	Analysis Date: **12/12/2013**	SeqNo: **445316** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	17		20.00		86.1	80.4	118			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **R15470**	RunNo: **15470**
Prep Date:	Analysis Date: **12/12/2013**	SeqNo: **445317** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.53	0.050	0.5000	0	106	80	120			
Surr: BFB	18		20.00		89.7	80.4	118			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312290**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R15433**	RunNo: **15433**
Prep Date:	Analysis Date: **12/11/2013**	SeqNo: **444462** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.6		10.00		95.8	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		110	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.8		10.00		98.3	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R15433**	RunNo: **15433**
Prep Date:	Analysis Date: **12/11/2013**	SeqNo: **444465** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	99.7	70	130			
Toluene	19	1.0	20.00	0	94.3	82.2	124			
Surr: 1,2-Dichloroethane-d4	10		10.00		100	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130			
Surr: Dibromofluoromethane	10		10.00		102	70	130			
Surr: Toluene-d8	9.6		10.00		95.8	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312290**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **MB-10703**	SampType: **MBLK**	TestCode: **EPA Method 7470: Mercury**							
Client ID: **PBW**	Batch ID: **10703**	RunNo: **15329**							
Prep Date: **12/8/2013**	Analysis Date: **12/8/2013**	SeqNo: **441731**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID **LCS-10703**	SampType: **LCS**	TestCode: **EPA Method 7470: Mercury**							
Client ID: **LCSW**	Batch ID: **10703**	RunNo: **15329**							
Prep Date: **12/8/2013**	Analysis Date: **12/8/2013**	SeqNo: **441732**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	99.4	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312290**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **R15348**	RunNo: **15348**
Prep Date:	Analysis Date: **12/9/2013**	SeqNo: **442192** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	52	1.0	50.00	0	105	80	120			
Magnesium	53	1.0	50.00	0	106	80	120			
Potassium	50	1.0	50.00	0	100	80	120			
Sodium	52	1.0	50.00	0	104	80	120			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **PBW**	Batch ID: **R15348**	RunNo: **15348**
Prep Date:	Analysis Date: **12/9/2013**	SeqNo: **442294** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312290**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **LCS-10704**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **10704**	RunNo: **15361**
Prep Date: **12/9/2013**	Analysis Date: **12/9/2013**	SeqNo: **442718** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.48	0.020	0.5000	0	95.2	80	120			
Barium	0.45	0.020	0.5000	0	89.5	80	120			
Cadmium	0.46	0.0020	0.5000	0	91.8	80	120			
Chromium	0.45	0.0060	0.5000	0	90.7	80	120			
Lead	0.45	0.0050	0.5000	0	89.8	80	120			
Selenium	0.46	0.050	0.5000	0	91.0	80	120			
Silver	0.10	0.0050	0.1000	0	105	80	120			

Sample ID **MB-10704**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **10704**	RunNo: **15361**
Prep Date: **12/9/2013**	Analysis Date: **12/9/2013**	SeqNo: **442732** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Selenium	ND	0.050								
Silver	ND	0.0050								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312290**

18-Dec-13

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **MB-10728**	SampType: **MBLK**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **PBW**	Batch ID: **10728**	RunNo: **15417**
Prep Date: **12/10/2013**	Analysis Date: **12/11/2013**	SeqNo: **444048** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID **LCS-10728**	SampType: **LCS**	TestCode: **SM2540C MOD: Total Dissolved Solids**
Client ID: **LCSW**	Batch ID: **10728**	RunNo: **15417**
Prep Date: **12/10/2013**	Analysis Date: **12/11/2013**	SeqNo: **444049** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	103	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental | Work Order Number: 1312290 | RcptNo: 1

Received by/date: AG 12/06/13

Logged By: Anne Thorne 12/6/2013 10:00:00 AM

Completed By: Anne Thorne 12/8/2013

Reviewed By: VMG 12/8/13

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: 2 (<2 or >12 unless noted)

Adjusted? _____

Checked by: AG 12/08/13

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks: per DW use collection time on bottles /AT 12/09/13

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain of Custody Record

Client: Animas Environmental Services	X Standard ☐ Rush
	Project Name: Former Thriftway Refinery #810
Mailing Address: 624 E Comanche, Farmington, NM 87401	Project #: AES 050204
Phone #: 505-564-2281	Project Manager: D. Watson
email or Fax#: 505-324-2022	Sampler: M. Beauparlant
QA/QC Package: X Standard ☐ Level 4 (Full Validation)	On Ice: X Yes ☐ No
Accreditation: ☐ NELAP ☐ Other	Sample Temperature: 1.0
☐ EDD (Type)	

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. 1312264 (AT 12/10/13)	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, Chloride, Fluoride, Sulfate	300.0 Chloride and Sulfate	Hardness CaCO3 6010	TDS 2540C	Specific Conductance EPA 120.1	Air Bubbles (Y or N)
12-4-13	11:15	Water	TW-42	6-40mL VOA/ 1-1L Amber	5-HCL & 1-Non/Non	-001 ~~-005~~	X	X	X								
12-4-13	11:50	Water	TW-43	6-40mL VOA/ 1-1L Amber	5-HCL & 1-Non/Non	-002 ~~-006~~	X	X	X								
12-4-13	13:00	Water	TW-45	6-40mL VOA/ 1-1L Amber	5-HCL & 1-Non/Non	-003 ~~-007~~	X	X	X								
12-4-13	13:25	Water	TW-46	6-40mL VOA/ 1-1L Amber	5-HCL & 1-Non/Non	-004 ~~-008~~	X	X	X								
12-4-13	13:55	Water	TW-47	6-40mL VOA/ 1-1L Amber/1-500 mL Plastic	5-HCL & 1-Non/Non/Non	-005 ~~-009~~	X	X	X				X		X		
12-4-13	14:36	Water	TW-49	6-40mL VOA/ 1-1L Amber/1-500 mL Plastic	5-HCL & 1-Non/Non/Non	-006 ~~-010~~	X	X	X				X				
		Water	~~TW-50~~	6-40mL VOA/ 1-1L Amber	5-HCL & 1-Non/Non	~~-007~~	X	X	X								
12-5-13	11:55	Water	TW-51	6-40mL VOA/ 1-1L Amber/1-500 mL Plastic	5-HCL & 1-Non/Non/Non	-007 ~~-008~~ -011	X	X	X				X				
12-5-13	12:25	Water	TW-52	6-40mL VOA/ 1-1L Amber	5-HCL & 1-Non/Non	-008 -012	X	X	X								
12-5-13	14:25 (AT 12/10/13 55)	Water	TW-53	6-40mL VoA/1-1L Amber/2-500mL & 1-125mL Plastic	5-HCl & 1-Non/Non/2-HNO3 & 1-Non	-009 -010 ~~-013~~	X	X	X	X	X	X		X	X	X	

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/5/13	1730			12/5/13	1730
Date:	Time:	Relinquished by:	Received by:	Date	Time
12/5/13	1850			12/06/13	10:00

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

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

January 02, 2014

Debbie Watson

Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-4071
FAX

RE: Former Thriftway Refinery #810 OrderNo.: 1312284

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 4 sample(s) on 12/7/2013 for the analyses presented in the following report.

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. In order to properly interpret your results it is imperative that you review this report in its entirety. 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. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order **1312284**
Date Reported: **1/2/2014**

CLIENT: Animas Environmental Services
Project: Former Thriftway Refinery #810
Lab ID: 1312284-001 **Matrix:** AQUEOUS

Client Sample ID: TW-54
Collection Date: 12/6/2013 9:43:00 AM
Received Date: 12/7/2013 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/10/2013 1:16:16 AM	10697
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/10/2013 1:16:16 AM	10697
Surr: DNOP	107	70.1-140		%REC	1	12/10/2013 1:16:16 AM	10697
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/12/2013 2:19:39 PM	R15470
Surr: BFB	86.7	80.4-118		%REC	1	12/12/2013 2:19:39 PM	R15470
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Fluoride	0.26	0.10		mg/L	1	12/9/2013 5:01:55 PM	R15376
Chloride	150	10		mg/L	20	12/9/2013 5:14:20 PM	R15376
Bromide	0.30	0.10		mg/L	1	12/9/2013 5:01:55 PM	R15376
Sulfate	2500	50		mg/L	100	12/10/2013 4:53:43 PM	R15410
SM2340B: HARDNESS						Analyst: **ELS**	
Hardness (As CaCO3)	930	6.6		mg/L	1	12/9/2013 8:30:00 AM	R15348
EPA METHOD 7470: MERCURY						Analyst: **JML**	
Mercury	ND	0.00020		mg/L	1	12/8/2013 7:09:17 PM	10703
EPA METHOD 6010B: DISSOLVED METALS						Analyst: **ELS**	
Calcium	320	20		mg/L	20	12/9/2013 1:08:25 PM	R15348
Magnesium	32	1.0		mg/L	1	12/9/2013 12:03:56 PM	R15348
Potassium	7.1	1.0		mg/L	1	12/9/2013 12:03:56 PM	R15348
Sodium	1100	20		mg/L	20	12/9/2013 1:08:25 PM	R15348
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: **JLF**	
Arsenic	0.12	0.020		mg/L	1	12/9/2013 4:54:00 PM	10704
Barium	0.35	0.020		mg/L	1	12/9/2013 4:54:00 PM	10704
Cadmium	ND	0.0020		mg/L	1	12/9/2013 4:54:00 PM	10704
Chromium	0.024	0.0060		mg/L	1	12/9/2013 4:54:00 PM	10704
Lead	ND	0.0050		mg/L	1	12/9/2013 4:54:00 PM	10704
Selenium	ND	0.050		mg/L	1	12/9/2013 4:54:00 PM	10704
Silver	ND	0.0050		mg/L	1	12/9/2013 4:54:00 PM	10704
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	1.0		µg/L	1	12/11/2013 11:20:00 PM	R15438
Toluene	ND	1.0		µg/L	1	12/11/2013 11:20:00 PM	R15438
Ethylbenzene	ND	1.0		µg/L	1	12/11/2013 11:20:00 PM	R15438
Methyl tert-butyl ether (MTBE)	21	1.0		µg/L	1	12/11/2013 11:20:00 PM	R15438
Naphthalene	ND	2.0		µg/L	1	12/11/2013 11:20:00 PM	R15438
1-Methylnaphthalene	ND	4.0		µg/L	1	12/11/2013 11:20:00 PM	R15438
2-Methylnaphthalene	ND	4.0		µg/L	1	12/11/2013 11:20:00 PM	R15438

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: TW-54
Project: Former Thriftway Refinery #810
Collection Date: 12/6/2013 9:43:00 AM
Lab ID: 1312284-001 **Matrix:** AQUEOUS **Received Date:** 12/7/2013 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Xylenes, Total	ND	1.5		µg/L	1	12/11/2013 11:20:00 PM	R15438
Surr: 1,2-Dichloroethane-d4	88.6	70-130		%REC	1	12/11/2013 11:20:00 PM	R15438
Surr: 4-Bromofluorobenzene	100	70-130		%REC	1	12/11/2013 11:20:00 PM	R15438
Surr: Dibromofluoromethane	91.8	70-130		%REC	1	12/11/2013 11:20:00 PM	R15438
Surr: Toluene-d8	92.0	70-130		%REC	1	12/11/2013 11:20:00 PM	R15438
SM2510B: SPECIFIC CONDUCTANCE						Analyst: **JML**	
Conductivity	5600	0.010		µmhos/cm	1	12/9/2013 6:40:30 PM	R15383
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	4520	200	*	mg/L	1	12/11/2013 12:18:00 PM	10728

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-7
Project: Former Thriftway Refinery #810
Collection Date: 12/6/2013 11:40:00 AM
Lab ID: 1312284-002 **Matrix:** AQUEOUS **Received Date:** 12/7/2013 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/10/2013 1:37:25 AM	10697
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/10/2013 1:37:25 AM	10697
Surr: DNOP	107	70.1-140		%REC	1	12/10/2013 1:37:25 AM	10697
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	12/12/2013 2:50:00 PM	R15470
Surr: BFB	90.4	80.4-118		%REC	1	12/12/2013 2:50:00 PM	R15470
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	1.1	1.0		µg/L	1	12/11/2013 11:48:01 PM	R15438
Toluene	ND	1.0		µg/L	1	12/11/2013 11:48:01 PM	R15438
Ethylbenzene	ND	1.0		µg/L	1	12/11/2013 11:48:01 PM	R15438
Methyl tert-butyl ether (MTBE)	10	1.0		µg/L	1	12/11/2013 11:48:01 PM	R15438
Naphthalene	ND	2.0		µg/L	1	12/11/2013 11:48:01 PM	R15438
1-Methylnaphthalene	ND	4.0		µg/L	1	12/11/2013 11:48:01 PM	R15438
2-Methylnaphthalene	ND	4.0		µg/L	1	12/11/2013 11:48:01 PM	R15438
Xylenes, Total	ND	1.5		µg/L	1	12/11/2013 11:48:01 PM	R15438
Surr: 1,2-Dichloroethane-d4	90.5	70-130		%REC	1	12/11/2013 11:48:01 PM	R15438
Surr: 4-Bromofluorobenzene	95.5	70-130		%REC	1	12/11/2013 11:48:01 PM	R15438
Surr: Dibromofluoromethane	91.8	70-130		%REC	1	12/11/2013 11:48:01 PM	R15438
Surr: Toluene-d8	93.9	70-130		%REC	1	12/11/2013 11:48:01 PM	R15438

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: MW-20
Project: Former Thriftway Refinery #810
Collection Date: 12/6/2013 10:15:00 AM
Lab ID: 1312284-003 **Matrix:** AQUEOUS **Received Date:** 12/7/2013 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/10/2013 1:58:45 AM	10697
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/10/2013 1:58:45 AM	10697
Surr: DNOP	103	70.1-140		%REC	1	12/10/2013 1:58:45 AM	10697
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	1.1	0.20		mg/L	4	12/12/2013 3:18:40 PM	R15470
Surr: BFB	96.9	80.4-118		%REC	4	12/12/2013 3:18:40 PM	R15470
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	520	50		mg/L	100	12/10/2013 5:06:08 PM	R15410
Sulfate	2100	50		mg/L	100	12/10/2013 5:06:08 PM	R15410
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	1.0		µg/L	1	12/12/2013 12:16:03 AM	R15438
Toluene	ND	1.0		µg/L	1	12/12/2013 12:16:03 AM	R15438
Ethylbenzene	ND	1.0		µg/L	1	12/12/2013 12:16:03 AM	R15438
Methyl tert-butyl ether (MTBE)	190	1.0		µg/L	1	12/12/2013 12:16:03 AM	R15438
Xylenes, Total	ND	1.5		µg/L	1	12/12/2013 12:16:03 AM	R15438
Surr: 1,2-Dichloroethane-d4	95.2	70-130		%REC	1	12/12/2013 12:16:03 AM	R15438
Surr: 4-Bromofluorobenzene	90.7	70-130		%REC	1	12/12/2013 12:16:03 AM	R15438
Surr: Dibromofluoromethane	95.6	70-130		%REC	1	12/12/2013 12:16:03 AM	R15438
Surr: Toluene-d8	90.1	70-130		%REC	1	12/12/2013 12:16:03 AM	R15438

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: Former Thriftway Refinery #810
Lab ID: 1312284-004 **Matrix:** AQUEOUS

Client Sample ID: MW-21
Collection Date: 12/6/2013 11:00:00 AM
Received Date: 12/7/2013 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE						Analyst: **BCN**	
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	12/10/2013 2:20:06 AM	10697
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	12/10/2013 2:20:06 AM	10697
Surr: DNOP	102	70.1-140		%REC	1	12/10/2013 2:20:06 AM	10697
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	0.082	0.050		mg/L	1	12/12/2013 3:48:47 PM	R15470
Surr: BFB	86.5	80.4-118		%REC	1	12/12/2013 3:48:47 PM	R15470
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Chloride	610	50		mg/L	100	12/10/2013 5:18:32 PM	R15410
Sulfate	1400	50		mg/L	100	12/10/2013 5:18:32 PM	R15410
EPA METHOD 8260B: VOLATILES						Analyst: **JMP**	
Benzene	ND	1.0		µg/L	1	12/12/2013 12:44:01 AM	R15438
Toluene	ND	1.0		µg/L	1	12/12/2013 12:44:01 AM	R15438
Ethylbenzene	ND	1.0		µg/L	1	12/12/2013 12:44:01 AM	R15438
Methyl tert-butyl ether (MTBE)	78	1.0		µg/L	1	12/12/2013 12:44:01 AM	R15438
Naphthalene	ND	2.0		µg/L	1	12/12/2013 12:44:01 AM	R15438
1-Methylnaphthalene	ND	4.0		µg/L	1	12/12/2013 12:44:01 AM	R15438
2-Methylnaphthalene	ND	4.0		µg/L	1	12/12/2013 12:44:01 AM	R15438
Xylenes, Total	ND	1.5		µg/L	1	12/12/2013 12:44:01 AM	R15438
Surr: 1,2-Dichloroethane-d4	90.9	70-130		%REC	1	12/12/2013 12:44:01 AM	R15438
Surr: 4-Bromofluorobenzene	93.2	70-130		%REC	1	12/12/2013 12:44:01 AM	R15438
Surr: Dibromofluoromethane	93.0	70-130		%REC	1	12/12/2013 12:44:01 AM	R15438
Surr: Toluene-d8	92.4	70-130		%REC	1	12/12/2013 12:44:01 AM	R15438

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312284**

02-Jan-14

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **A4**	SampType: **CCV_4**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **BatchQC**	Batch ID: **R15376**	RunNo: **15376**							
Prep Date:	Analysis Date: **12/9/2013**	SeqNo: **443035**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.94	0.10	1.000	0	94.4	90	110			
Chloride	4.6	0.50	5.000	0	92.3	90	110			
Bromide	4.8	0.10	5.000	0	96.7	90	110			

Sample ID **A5**	SampType: **CCV_5**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **BatchQC**	Batch ID: **R15376**	RunNo: **15376**							
Prep Date:	Analysis Date: **12/9/2013**	SeqNo: **443047**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	1.5	0.10	1.600	0	96.2	90	110			
Chloride	7.7	0.50	8.000	0	96.6	90	110			
Bromide	8.0	0.10	8.000	0	99.7	90	110			

Sample ID **A6**	SampType: **CCV_6**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **BatchQC**	Batch ID: **R15376**	RunNo: **15376**							
Prep Date:	Analysis Date: **12/9/2013**	SeqNo: **443059**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	2.3	0.10	2.400	0	96.4	90	110			
Chloride	12	0.50	12.00	0	101	90	110			
Bromide	12	0.10	12.00	0	102	90	110			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBW**	Batch ID: **R15376**	RunNo: **15376**							
Prep Date:	Analysis Date: **12/9/2013**	SeqNo: **443069**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Bromide	ND	0.10								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSW**	Batch ID: **R15376**	RunNo: **15376**							
Prep Date:	Analysis Date: **12/9/2013**	SeqNo: **443070**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.47	0.10	0.5000	0	94.1	90	110			
Chloride	4.7	0.50	5.000	0	93.5	90	110			
Bromide	2.5	0.10	2.500	0	98.7	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312284**

02-Jan-14

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **A4**	SampType: **CCV_4**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15376**	RunNo: **15376**
Prep Date:	Analysis Date: **12/9/2013**	SeqNo: **443071** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.94	0.10	1.000	0	94.3	90	110			
Chloride	4.6	0.50	5.000	0	92.6	90	110			
Bromide	4.9	0.10	5.000	0	97.3	90	110			

Sample ID **A5**	SampType: **CCV_5**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15410**	RunNo: **15410**
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443898** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	7.7	0.50	8.000	0	96.7	90	110			
Sulfate	19	0.50	20.00	0	97.5	90	110			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R15410**	RunNo: **15410**
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443900** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	0.50								
Sulfate	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R15410**	RunNo: **15410**
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443901** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.6	90	110			
Sulfate	9.5	0.50	10.00	0	94.5	90	110			

Sample ID **A6**	SampType: **CCV_6**	TestCode: **EPA Method 300.0: Anions**
Client ID: **BatchQC**	Batch ID: **R15410**	RunNo: **15410**
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443910** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	12	0.50	12.00	0	101	90	110			
Sulfate	31	0.50	30.00	0	102	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312284**

02-Jan-14

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **A4**	SampType: **CCV_4**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **BatchQC**	Batch ID: **R15410**	RunNo: **15410**							
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443922**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	4.6	0.50	5.000	0	92.5	90	110			
Sulfate	12	0.50	12.50	0	93.8	90	110			

Sample ID **A5**	SampType: **CCV_5**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **BatchQC**	Batch ID: **R15410**	RunNo: **15410**							
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443934**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	7.7	0.50	8.000	0	96.5	90	110			
Sulfate	20	0.50	20.00	0	98.2	90	110			

Sample ID **A6**	SampType: **CCV_6**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **BatchQC**	Batch ID: **R15410**	RunNo: **15410**							
Prep Date:	Analysis Date: **12/10/2013**	SeqNo: **443944**	Units: **mg/L**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	12	0.50	12.00	0	101	90	110			
Sulfate	31	0.50	30.00	0	102	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312284**

02-Jan-14

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **LCS-10697**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range**
Client ID: **LCSW**	Batch ID: **10697**	RunNo: **15333**
Prep Date: **12/8/2013**	Analysis Date: **12/10/2013**	SeqNo: **443112** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.1	1.0	5.000	0	122	73.3	145			
Surr: DNOP	0.56		0.5000		112	70.1	140			

Sample ID **LCSD-10697**	SampType: **LCSD**	TestCode: **EPA Method 8015D: Diesel Range**
Client ID: **LCSS02**	Batch ID: **10697**	RunNo: **15333**
Prep Date: **12/8/2013**	Analysis Date: **12/10/2013**	SeqNo: **443113** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	6.1	1.0	5.000	0	122	73.3	145	0.0655	20	
Surr: DNOP	0.56		0.5000		111	70.1	140	0	0	

Sample ID **MB-10697**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range**
Client ID: **PBW**	Batch ID: **10697**	RunNo: **15333**
Prep Date: **12/8/2013**	Analysis Date: **12/10/2013**	SeqNo: **443115** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1.0								
Motor Oil Range Organics (MRO)	ND	5.0								
Surr: DNOP	0.99		1.000		99.4	70.1	140			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312284**

02-Jan-14

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBW**	Batch ID: **R15470**	RunNo: **15470**
Prep Date:	Analysis Date: **12/12/2013**	SeqNo: **445316** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.050								
Surr: BFB	17		20.00		86.1	80.4	118			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSW**	Batch ID: **R15470**	RunNo: **15470**
Prep Date:	Analysis Date: **12/12/2013**	SeqNo: **445317** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.53	0.050	0.5000	0	106	80	120			
Surr: BFB	18		20.00		89.7	80.4	118			

Sample ID **1312284-003AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-20**	Batch ID: **R15470**	RunNo: **15470**
Prep Date:	Analysis Date: **12/12/2013**	SeqNo: **445321** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	3.1	0.20	2.000	1.139	97.7	67.7	128			
Surr: BFB	83		80.00		103	80.4	118			

Sample ID **1312284-003AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **MW-20**	Batch ID: **R15470**	RunNo: **15470**
Prep Date:	Analysis Date: **12/12/2013**	SeqNo: **445322** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	2.9	0.20	2.000	1.139	87.5	67.7	128	6.82	20	
Surr: BFB	72		80.00		90.4	80.4	118	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312284**

02-Jan-14

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **5mL rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R15438**	RunNo: **15438**
Prep Date:	Analysis Date: **12/11/2013**	SeqNo: **444600** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	8.9		10.00		88.5	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130			
Surr: Dibromofluoromethane	9.0		10.00		90.1	70	130			
Surr: Toluene-d8	9.3		10.00		93.4	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R15438**	RunNo: **15438**
Prep Date:	Analysis Date: **12/11/2013**	SeqNo: **444602** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	102	70	130			
Toluene	22	1.0	20.00	0	110	82.2	124			
Surr: 1,2-Dichloroethane-d4	9.4		10.00		94.0	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		99.7	70	130			
Surr: Dibromofluoromethane	9.2		10.00		91.9	70	130			
Surr: Toluene-d8	9.5		10.00		95.3	70	130			

Sample ID **b5**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R15438**	RunNo: **15438**
Prep Date:	Analysis Date: **12/11/2013**	SeqNo: **444640** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
Naphthalene	ND	2.0								
1-Methylnaphthalene	ND	4.0								
2-Methylnaphthalene	ND	4.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.0		10.00		90.2	70	130			
Surr: 4-Bromofluorobenzene	9.9		10.00		99.4	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312284**

02-Jan-14

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **b5**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R15438**	RunNo: **15438**
Prep Date:	Analysis Date: **12/11/2013**	SeqNo: **444640** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	8.9		10.00		89.5	70	130			
Surr: Toluene-d8	9.1		10.00		91.3	70	130			

Sample ID **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R15438**	RunNo: **15438**
Prep Date:	Analysis Date: **12/11/2013**	SeqNo: **444642** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	70	130			
Toluene	20	1.0	20.00	0	102	82.2	124			
Surr: 1,2-Dichloroethane-d4	9.2		10.00		91.6	70	130			
Surr: 4-Bromofluorobenzene	9.4		10.00		94.2	70	130			
Surr: Dibromofluoromethane	9.1		10.00		91.4	70	130			
Surr: Toluene-d8	9.1		10.00		90.8	70	130			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312284**

02-Jan-14

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **1312284-001f dup**	SampType: **dup**			TestCode: **SM2510B: Specific Conductance**						
Client ID: **TW-54**	Batch ID: **R15383**			RunNo: **15383**						
Prep Date:	Analysis Date: **12/9/2013**			SeqNo: **443192**		Units: **µmhos/cm**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	5600	0.010						0.0180	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312284**

02-Jan-14

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **MB-10703**	SampType: **MBLK**	TestCode: **EPA Method 7470: Mercury**
Client ID: **PBW**	Batch ID: **10703**	RunNo: **15329**
Prep Date: **12/8/2013**	Analysis Date: **12/8/2013**	SeqNo: **441731** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID **LCS-10703**	SampType: **LCS**	TestCode: **EPA Method 7470: Mercury**
Client ID: **LCSW**	Batch ID: **10703**	RunNo: **15329**
Prep Date: **12/8/2013**	Analysis Date: **12/8/2013**	SeqNo: **441732** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0050	0.00020	0.005000	0	99.4	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312284**

02-Jan-14

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **R15348**	RunNo: **15348**
Prep Date:	Analysis Date: **12/9/2013**	SeqNo: **442192** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	52	1.0	50.00	0	105	80	120			
Magnesium	53	1.0	50.00	0	106	80	120			
Potassium	50	1.0	50.00	0	100	80	120			
Sodium	52	1.0	50.00	0	104	80	120			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 6010B: Dissolved Metals**
Client ID: **PBW**	Batch ID: **R15348**	RunNo: **15348**
Prep Date:	Analysis Date: **12/9/2013**	SeqNo: **442294** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312284**

02-Jan-14

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **LCS-10704**	SampType: **LCS**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **LCSW**	Batch ID: **10704**	RunNo: **15361**
Prep Date: **12/9/2013**	Analysis Date: **12/9/2013**	SeqNo: **442718** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.48	0.020	0.5000	0	95.2	80	120			
Barium	0.45	0.020	0.5000	0	89.5	80	120			
Cadmium	0.46	0.0020	0.5000	0	91.8	80	120			
Chromium	0.45	0.0060	0.5000	0	90.7	80	120			
Lead	0.45	0.0050	0.5000	0	89.8	80	120			
Selenium	0.46	0.050	0.5000	0	91.0	80	120			
Silver	0.10	0.0050	0.1000	0	105	80	120			

Sample ID **MB-10704**	SampType: **MBLK**	TestCode: **EPA 6010B: Total Recoverable Metals**
Client ID: **PBW**	Batch ID: **10704**	RunNo: **15361**
Prep Date: **12/9/2013**	Analysis Date: **12/9/2013**	SeqNo: **442732** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.020								
Barium	ND	0.020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Selenium	ND	0.050								
Silver	ND	0.0050								

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1312284**

02-Jan-14

Client: Animas Environmental Services

Project: Former Thriftway Refinery #810

Sample ID **MB-10728**	SampType: **MBLK**			TestCode: **SM2540C MOD: Total Dissolved Solids**					
Client ID: **PBW**	Batch ID: **10728**			RunNo: **15417**					
Prep Date: **12/10/2013**	Analysis Date: **12/11/2013**			SeqNo: **444048**	Units: **mg/L**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID **LCS-10728**	SampType: **LCS**			TestCode: **SM2540C MOD: Total Dissolved Solids**					
Client ID: **LCSW**	Batch ID: **10728**			RunNo: **15417**					
Prep Date: **12/10/2013**	Analysis Date: **12/11/2013**			SeqNo: **444049**	Units: **mg/L**				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	103	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2 for VOA and TOC only.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1312284 RcptNo: 1

Received by/date: AT 12/07/13

Logged By: Anne Thorne 12/7/2013 10:05:00 AM Anne Thorne

Completed By: Anne Thorne 12/8/2013 Anne Thorne

Reviewed By: KMS 12/8/13

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: 4 AT 12/8/13
(2 or >12 unless noted)
Adjusted? _____
Checked by: AT 12/08/13

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Client: Animas Environmental Services	X Standard ☐ Rush	**HALL ENVIRONMENTAL ANALYSIS LABORATORY**
	Project Name:	www.hallenvironmental.com
Mailing Address: 624 E Comanche	Former Thriftway Refinery #810	4901 Hawkins NE - Albuquerque, NM 87109
Farmington, NM 87401	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #: 505-564-2281	AES 050204	Analysis Request
email or Fax#: 505-324-2022	Project Manager:	
QA/QC Package:		
X Standard ☐ Level 4 (Full Validation)	D. Watson	
Accreditation:	Sampler: M. Beauparlant	
☐ NELAP ☐ Other	On Ice: X Yes ☐ No	
☐ EDD (Type)	Sample Temperature: 1.0	

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1312284	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, Chloride, Fluoride, Sulfate	300.0 Chloride and Sulfate	Hardness CaCO3 6010	TDS 2540C	Specific Conductance EPA 120.1	Air Bubbles (Y or N)
12-6-13	09:43	Water	TW-54	8-40mL VoA/1-1L Amber/2-500mL & 1-125mL Plastic	6-HCl & 2-Non/Non/2-HNO3 & 1-Non	-001	X	X	X	X	X	X		X	X	X	
		Water	~~MW-5~~	8-40mL VoA/1-1L Amber/2-500mL & 1-125mL Plastic	6-HCl & 2-Non/Non/2-HNO3 & 1-Non		X	X	X	X	X	X		X	X	X	
12-6-13	11:40	Water	MW-7	8-40mL VOA/1-1L Amber	6-HCL & 2-Non/Non	-002	X	X	X								
12-6-13	10:15	Water	MW-20	8-40mL VOA/1-1L Amber/1-500 mL Plastic	6-HCL & 2-Non/Non/Non	-003	X	X	X				X				
12-6-13	11:00	Water	MW-21	8-40mL VOA/1-1L Amber/1-500 mL Plastic	6-HCL & 2-Non/Non/Non	-004	X	X	X				X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/6/13	1610			12/6/13	1600
Date:	Time:	Relinquished by:	Received by:	Date	Time
12/6/13	1630			12/07/13	1005

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.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Remediation Service Int'l
4835 Colt Unit D
Ventura CA 93003
805.644.8382
805.644.8378 FAX
www.rsi-save.com

22261.93

Report Generator Version 1.4

Date of Report:	3/21/2014
Project Name:	Quarter 4 2013
Unit ID:	0
Controller S/N:	182
Software version:	844

Date Range From:	10/1/2013 1:54
Date Range To :	11/7/2013 20:52
Lbs. Removed/Period:	929.42
Gal Removed/Period:	149.96
SCF Processed/Period:	1610360

Assumptions:

20000	Btu/lb
6.2	lb/gallon of gasoline
120	Mole Weight of Extracted VOC
2520	Btu/Cubic Foot of Propane
1000	Btu/Cubic Foot of Natural Gas

Parts/Million by Volume (PPMV) Conversion to Micrograms/Liter (ug/L)
(PPMV/24.055)*AVG. Mole Weight=ug/L

Mass Transfer Equation to Convert to Pounds/Hour:
(ug/L)*(Flow SCFM)*28.3 L/SCF*60 Minutes/Hour*2.2 lbs/Kg*(1/10^9)

There are no express or implied warranties for fitness of use or any other purpose of the data contained herein.
See report footnotes for disclaimer details and other technical information relating to calculation procedures.

Footnotes:

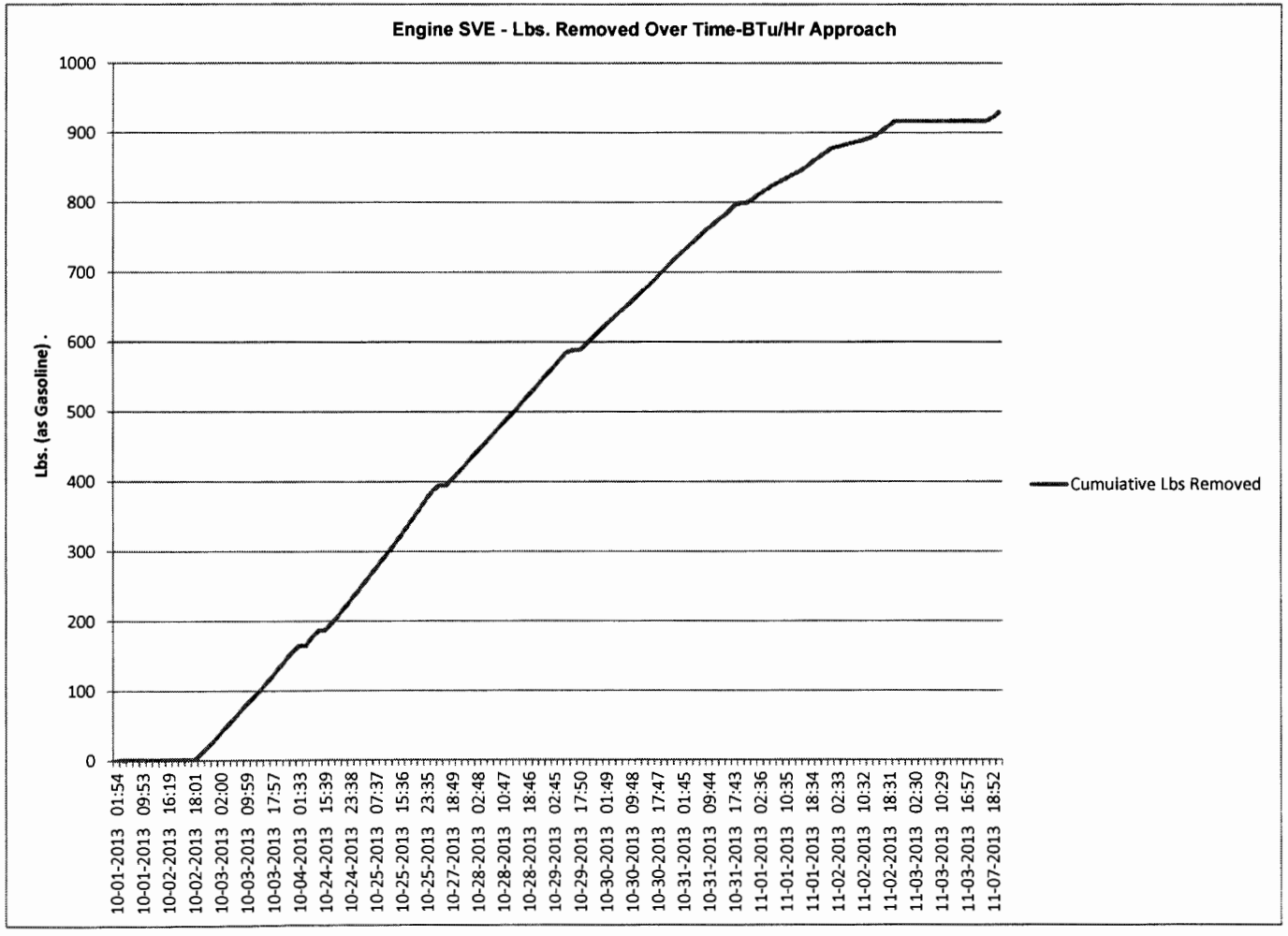
RSIs Innovative Approach to Estimating Btu/Hr:
1. Measure alternate fuel usage of engine prior to introduction of process flow
2. Multiply the SCFM flow rate of the alternate fuel (propane or natural gas) by the Btu value to determine energy demand on the engine at static conditions
3. The controller records a "snapshot" of the energy demand at a given RPM and engine manifold vacuum just prior to allowing the process flow to begin
4. The controller adjusts the initial baseline based on engine load or oxygen deficiency as necessary
5. Any drop in energy demand is assumed to be caused by the introduction of the process flow and is displayed as Estimated Btu/hr and recorded accordingly

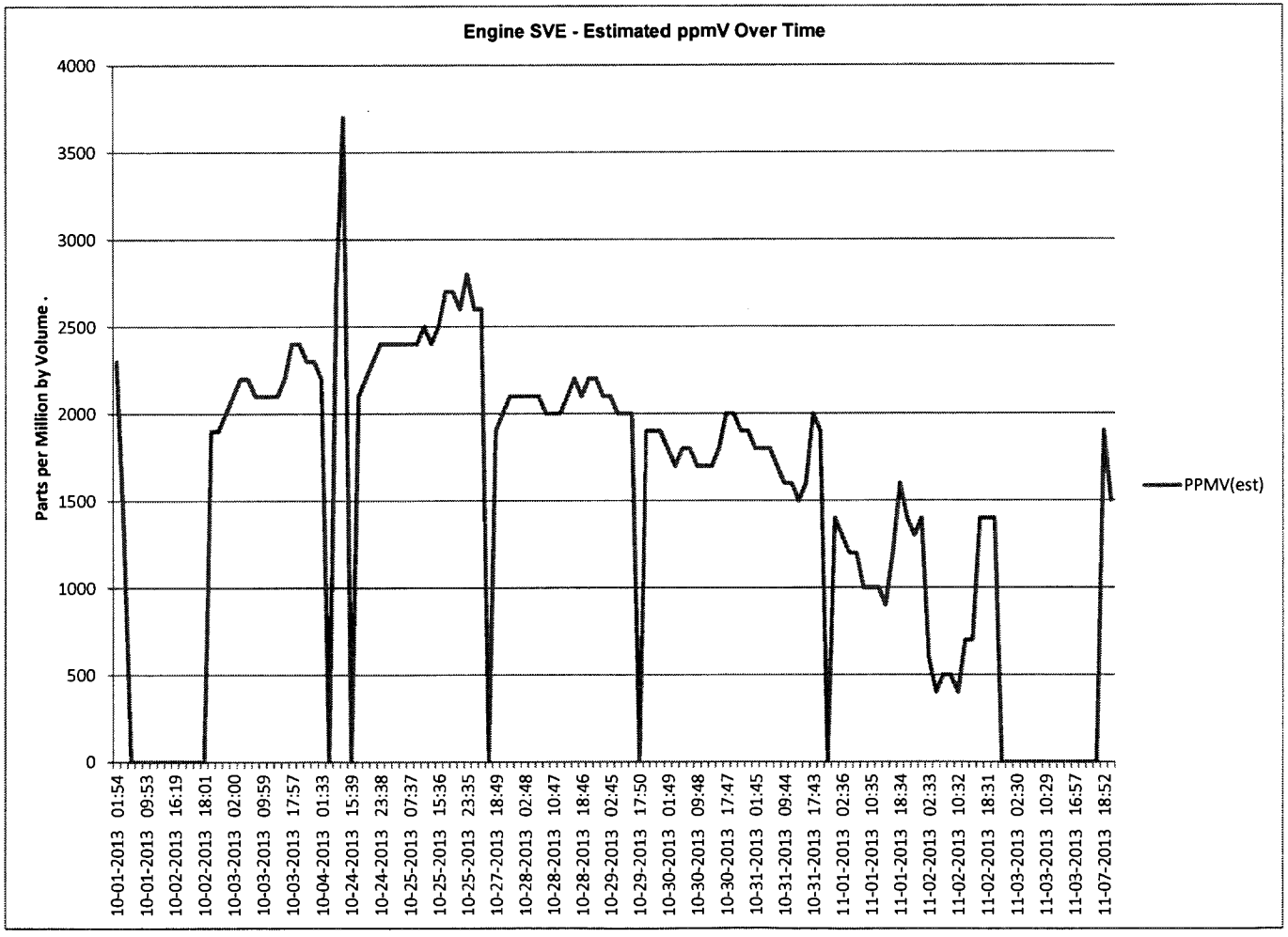
RSIs Innovative Approach to Estimating PPMV:
1. The controller completes the Btu/hr calculation as explained above
2. The controller looks at the well flow rate (estimated or measured in SCFM)
3. The controller then computes the average PPMV using the mass transfer equation to solve for PPMV
4. If the flow rate is estimated then PPMV is subject to accuracy of estimated flow and accuracy of the Btu/hr calculation
5. If the flow rate is measured then this PPMV estimate will be relative to actual lab data assuming the flow measurement and the Btu calculations are correct

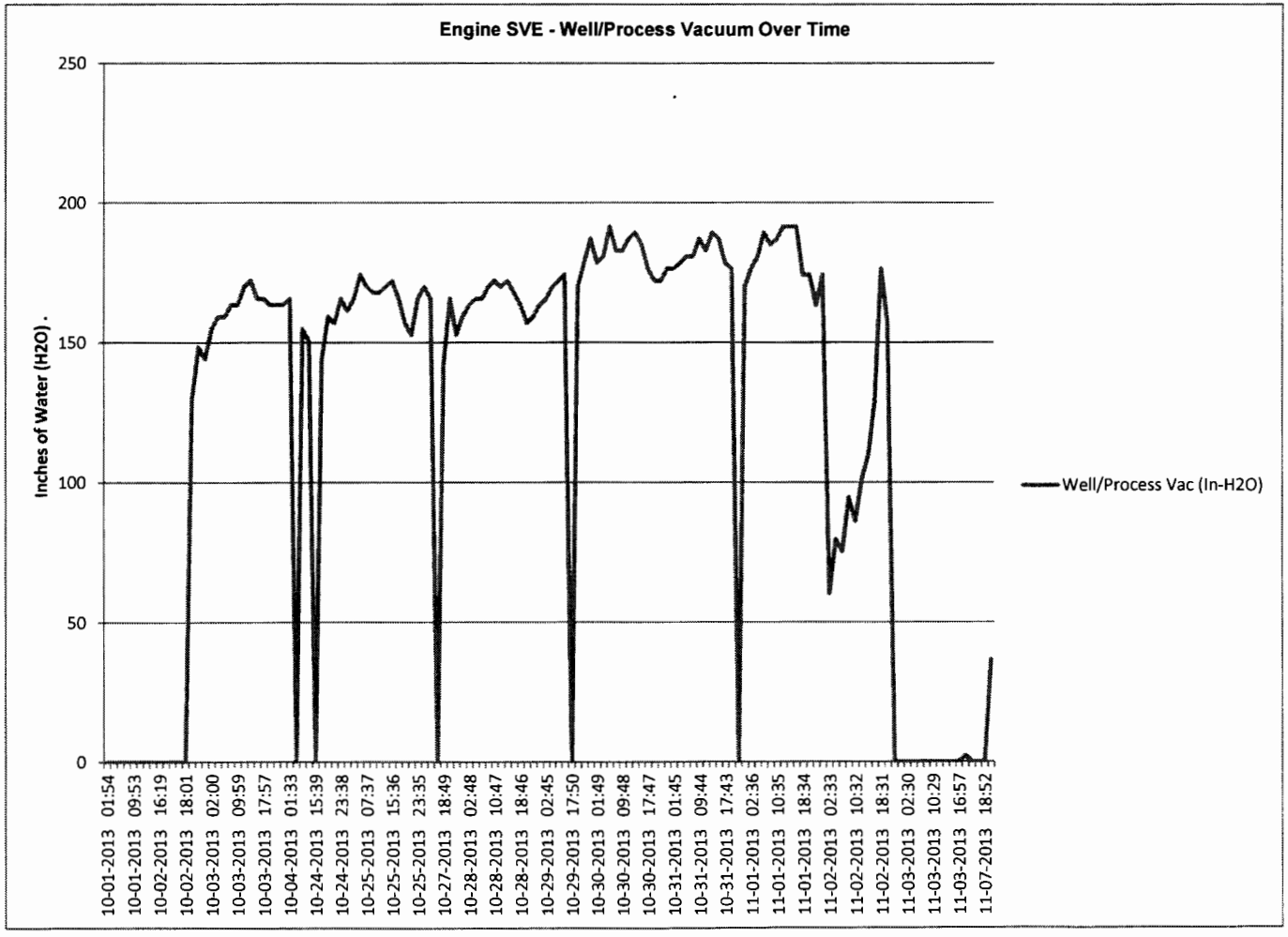
There are many advantages to using RSIs innovative approach in calculating how much mass was removed from a project in a given time period. Our method eliminates human calculation error and prevents incorrect or non-calibrated use of field instrumentation and it is a consistent periodic measurement over time which when used properly will reduces costly laboratory analysis.

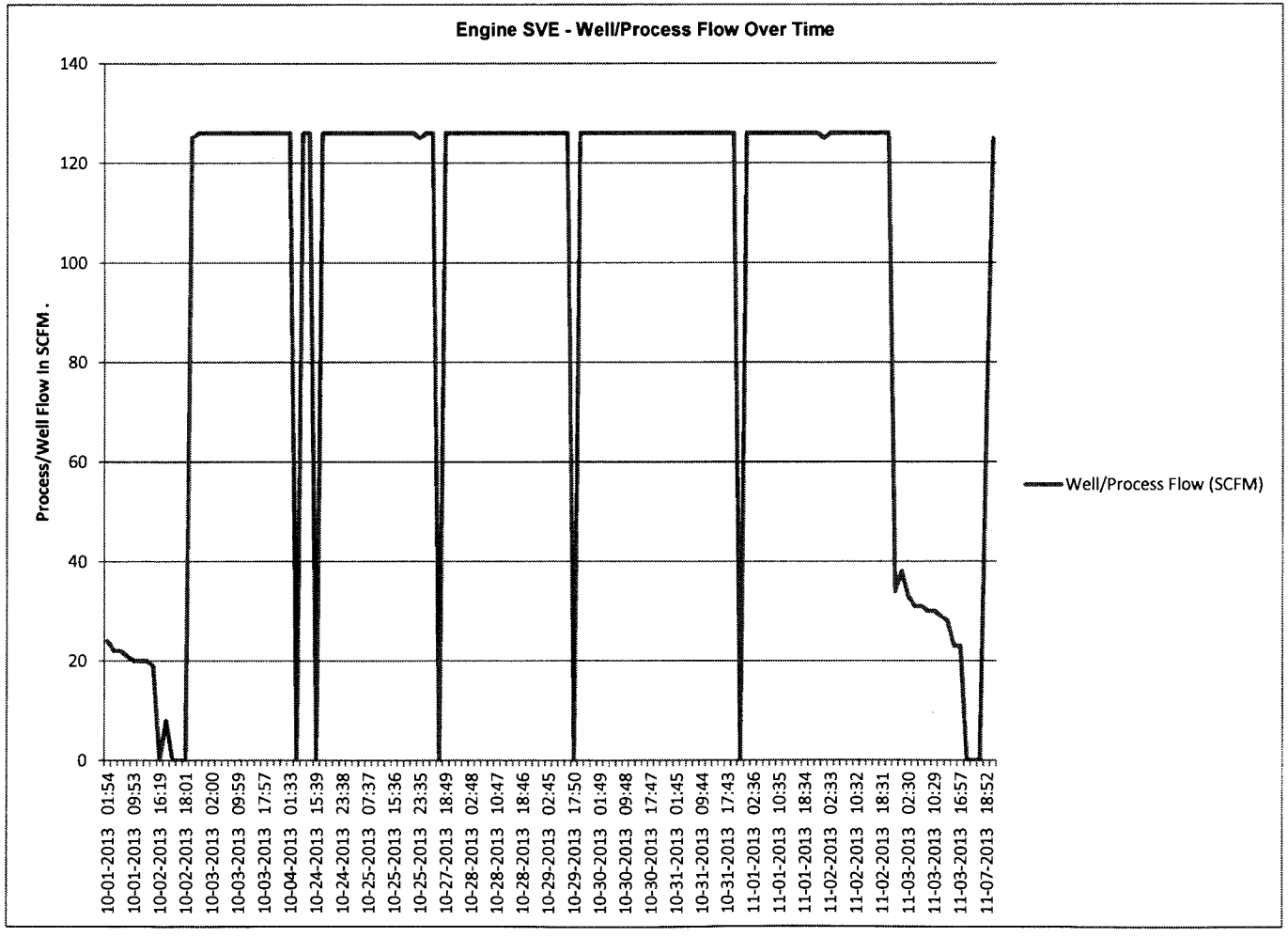
Our estimates of VOC removal have proven to be reasonable when compared to independent lab data. Because the process flow rate and the alternate fuel flow rate measurements are dependent upon proper system operation there are no expressed or implied warrantees of fitness of use for any purpose when using this report or the data contained herein.

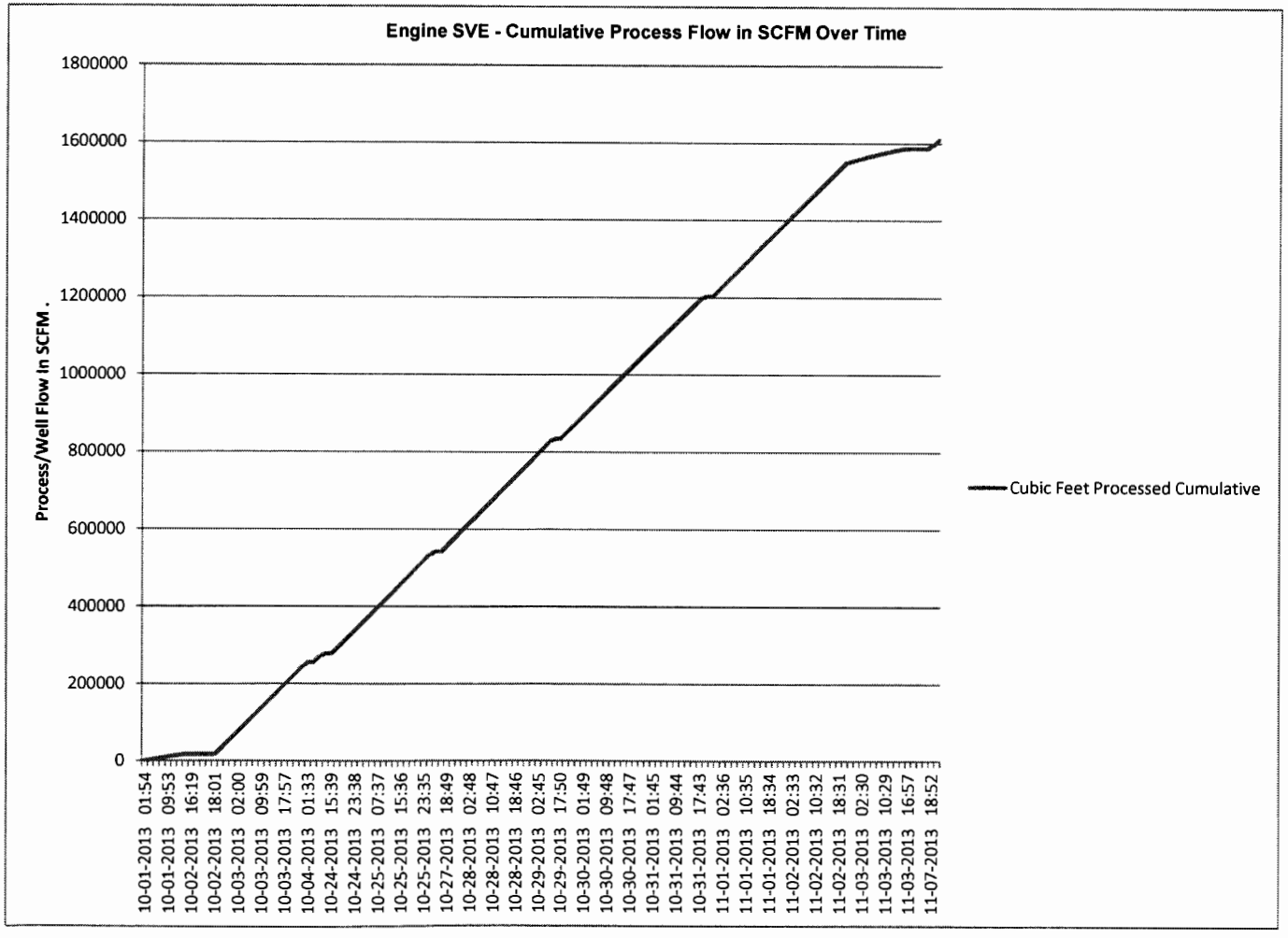
Please do not hesitate to contact RSI 1-800-368-8685 if you should have any questions or require further information

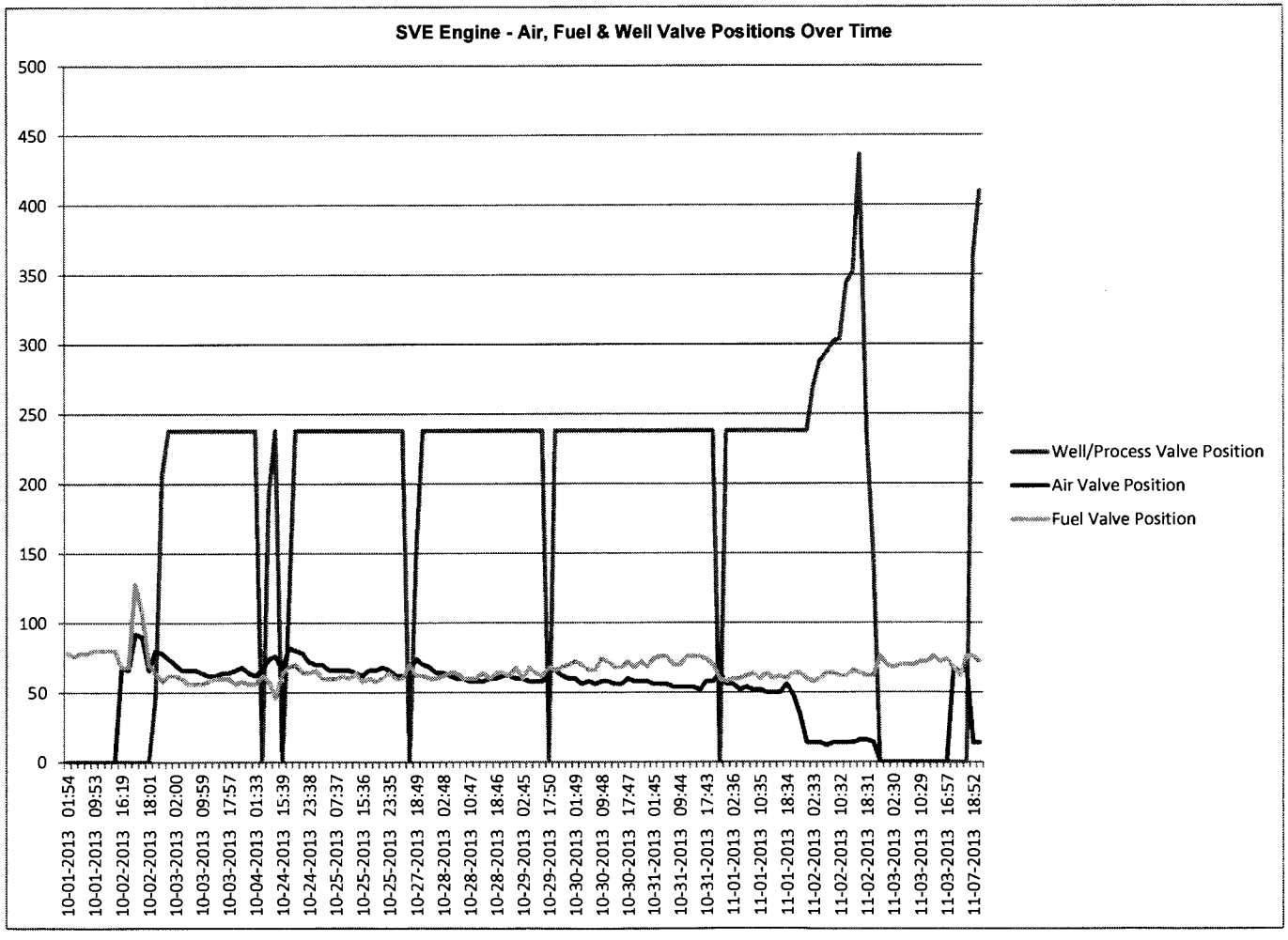

Engine SVE - Lbs. Removed Over Time-BTu/Hr Approach
Lbs. (as Gasoline) .
1000
900
800
700
600
500
400
300
200
100
0
10-01-2013 01:54
10-01-2013 09:53
10-02-2013 16:19
10-02-2013 18:01
10-03-2013 02:00
10-03-2013 09:59
10-03-2013 17:57
10-04-2013 01:33
10-24-2013 15:39
10-24-2013 23:38
10-25-2013 07:37
10-25-2013 15:36
10-25-2013 23:35
10-27-2013 18:49
10-28-2013 02:48
10-28-2013 10:47
10-28-2013 18:46
10-29-2013 02:45
10-29-2013 17:50
10-30-2013 01:49
10-30-2013 09:48
10-30-2013 17:47
10-31-2013 01:45
10-31-2013 09:44
10-31-2013 17:43
11-01-2013 02:36
11-01-2013 10:35
11-01-2013 18:34
11-02-2013 02:33
11-02-2013 10:32
11-02-2013 18:31
11-03-2013 02:30
11-03-2013 10:29
11-03-2013 16:57
11-07-2013 18:52
Cumulative Lbs Removed

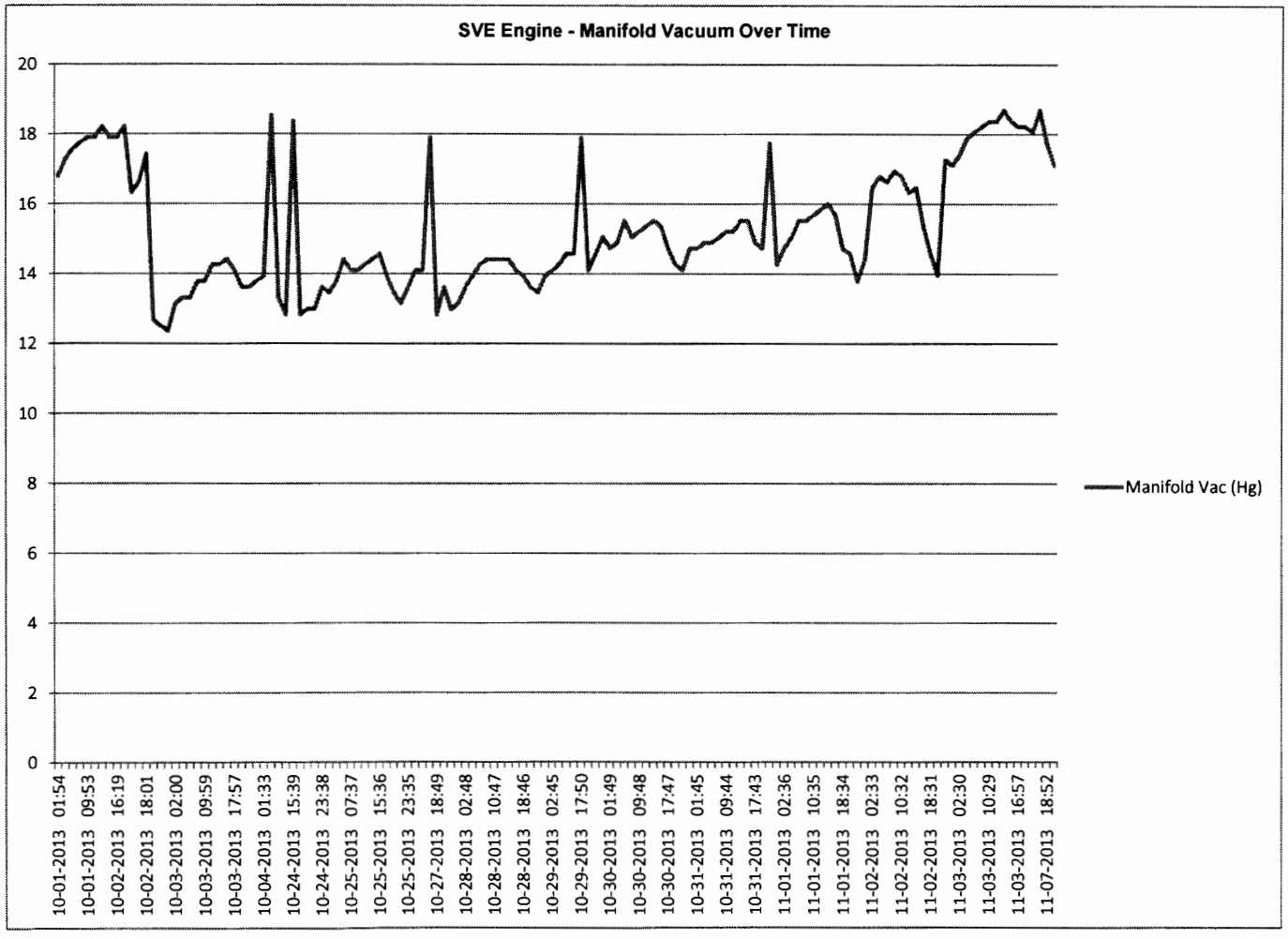

Engine SVE - Estimated ppmV Over Time
Parts per Million by Volume .
4000
3500
3000
2500
2000
1500
1000
500
0
10-01-2013 01:54
10-01-2013 09:53
10-02-2013 16:19
10-02-2013 18:01
10-03-2013 02:00
10-03-2013 09:59
10-03-2013 17:57
10-04-2013 01:33
10-24-2013 15:39
10-24-2013 23:38
10-25-2013 07:37
10-25-2013 15:36
10-25-2013 23:35
10-27-2013 18:49
10-28-2013 02:48
10-28-2013 10:47
10-28-2013 18:46
10-29-2013 02:45
10-29-2013 17:50
10-30-2013 01:49
10-30-2013 09:48
10-30-2013 17:47
10-31-2013 01:45
10-31-2013 09:44
10-31-2013 17:43
11-01-2013 02:36
11-01-2013 10:35
11-01-2013 18:34
11-02-2013 02:33
11-02-2013 10:32
11-02-2013 18:31
11-03-2013 02:30
11-03-2013 10:29
11-03-2013 16:57
11-07-2013 18:52
PPMV(est)

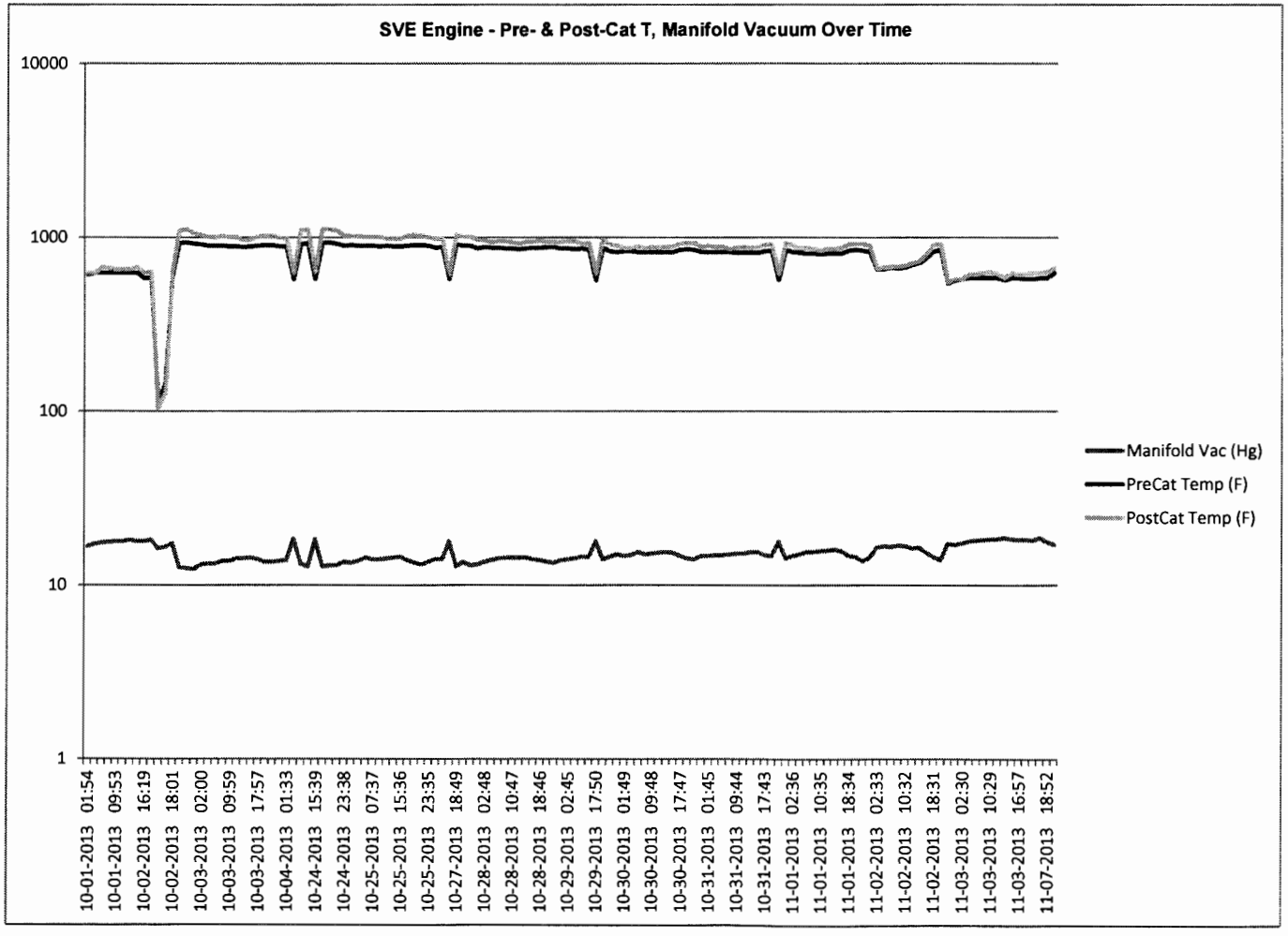

Engine SVE - Well/Process Vacuum Over Time
Inches of Water (H2O) .
250
200
150
100
50
0
10-01-2013 01:54
10-01-2013 09:53
10-02-2013 16:19
10-02-2013 18:01
10-03-2013 02:00
10-03-2013 09:59
10-03-2013 17:57
10-04-2013 01:33
10-24-2013 15:39
10-24-2013 23:38
10-25-2013 07:37
10-25-2013 15:36
10-25-2013 23:35
10-27-2013 18:49
10-28-2013 02:48
10-28-2013 10:47
10-28-2013 18:46
10-29-2013 02:45
10-29-2013 17:50
10-30-2013 01:49
10-30-2013 09:48
10-30-2013 17:47
10-31-2013 01:45
10-31-2013 09:44
10-31-2013 17:43
11-01-2013 02:36
11-01-2013 10:35
11-01-2013 18:34
11-02-2013 02:33
11-02-2013 10:32
11-02-2013 18:31
11-03-2013 02:30
11-03-2013 10:29
11-03-2013 16:57
11-07-2013 18:52
Well/Process Vac (In-H2O)

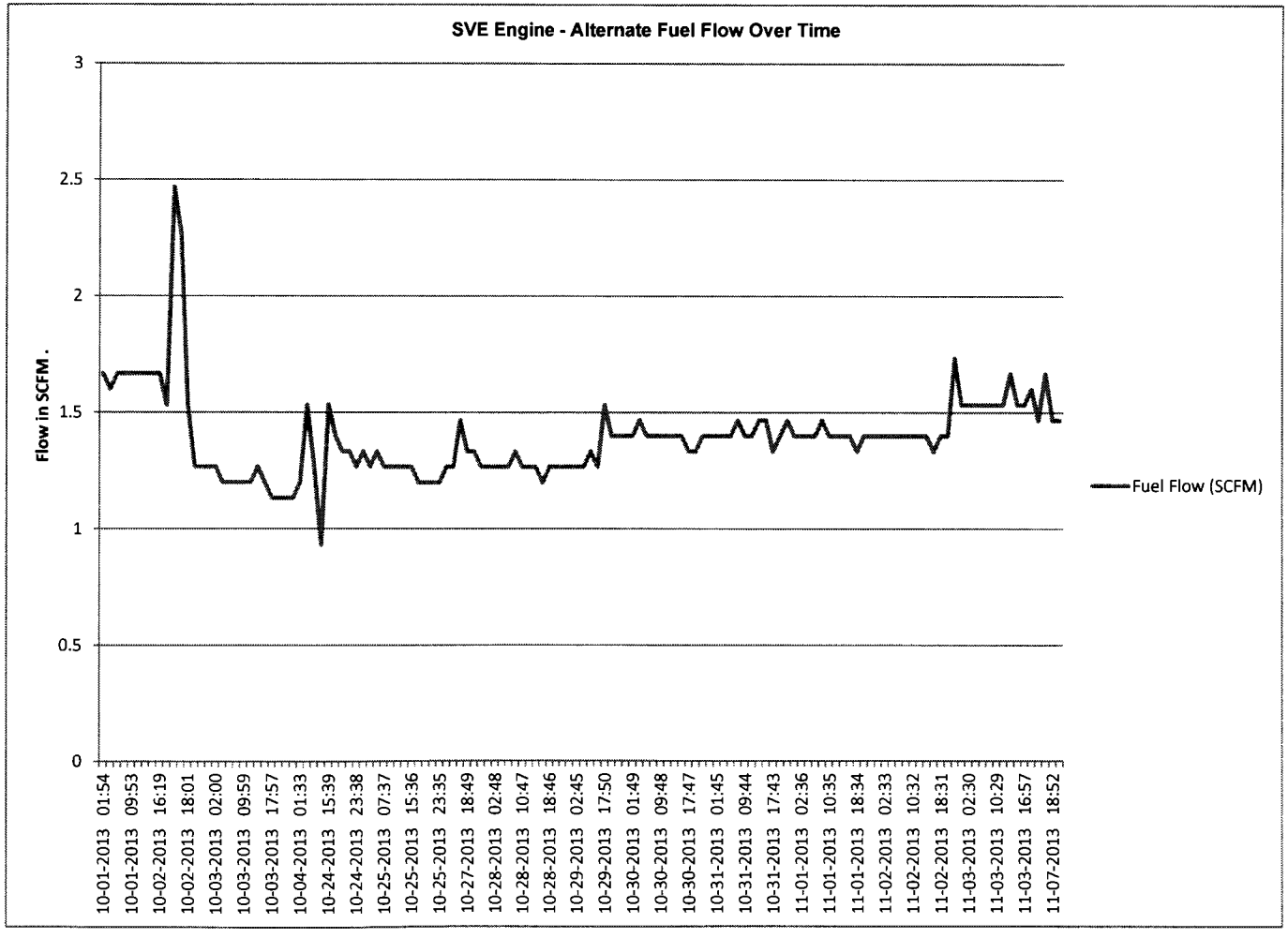

Engine SVE - Well/Process Flow Over Time
Process/Well Flow in SCFM .
140
120
100
80
60
40
20
0
10-01-2013 01:54
10-01-2013 09:53
10-02-2013 16:19
10-02-2013 18:01
10-03-2013 02:00
10-03-2013 09:59
10-03-2013 17:57
10-04-2013 01:33
10-24-2013 15:39
10-24-2013 23:38
10-25-2013 07:37
10-25-2013 15:36
10-25-2013 23:35
10-27-2013 18:49
10-28-2013 02:48
10-28-2013 10:47
10-28-2013 18:46
10-29-2013 02:45
10-29-2013 17:50
10-30-2013 01:49
10-30-2013 09:48
10-30-2013 17:47
10-31-2013 01:45
10-31-2013 09:44
10-31-2013 17:43
11-01-2013 02:36
11-01-2013 10:35
11-01-2013 18:34
11-02-2013 02:33
11-02-2013 10:32
11-02-2013 18:31
11-03-2013 02:30
11-03-2013 10:29
11-03-2013 16:57
11-07-2013 18:52
Well/Process Flow (SCFM)

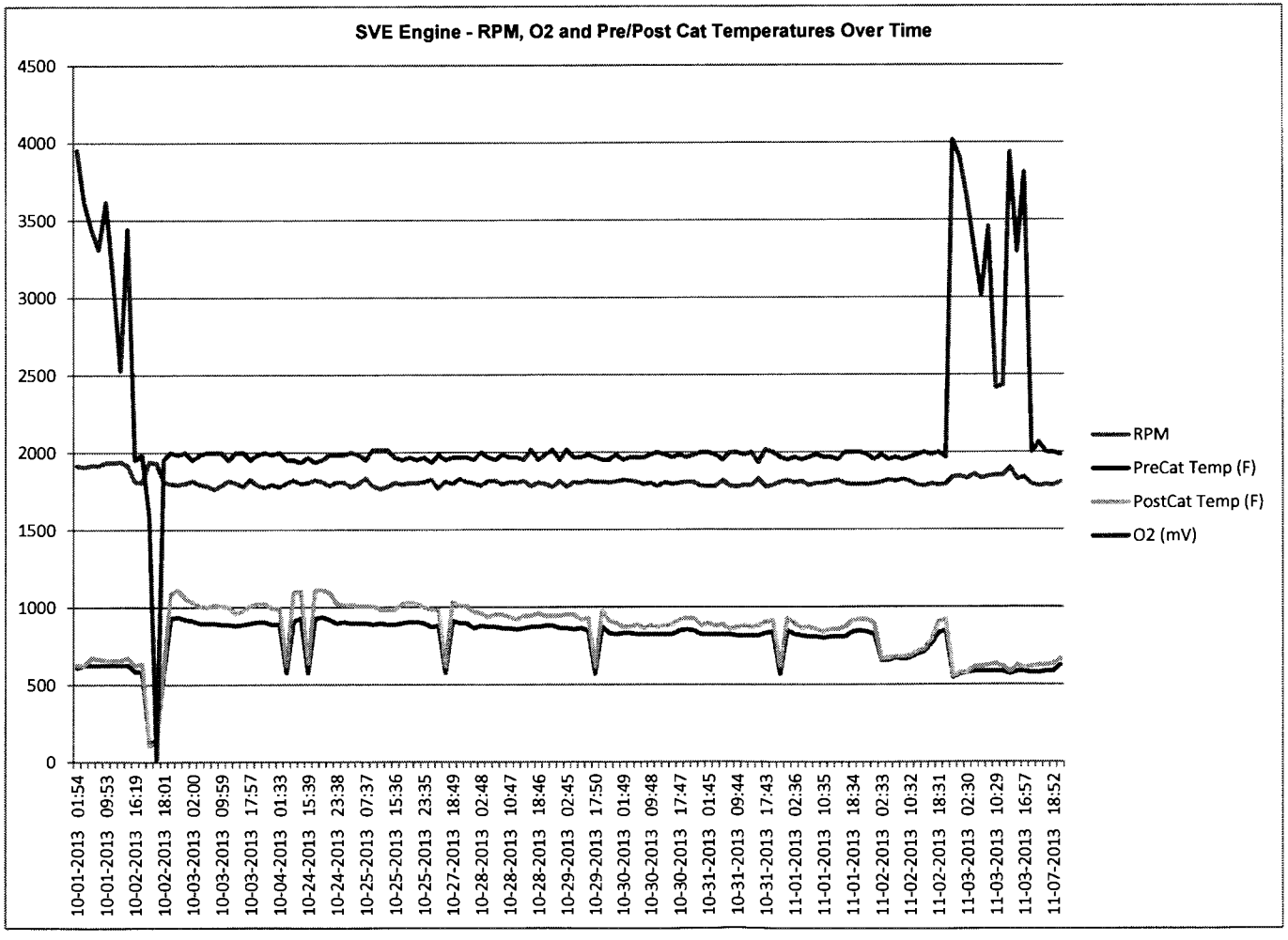

Engine SVE - Cumulative Process Flow in SCFM Over Time
Process/Well Flow in SCFM .
1800000
1600000
1400000
1200000
1000000
800000
600000
400000
200000
0
10-01-2013 01:54
10-01-2013 09:53
10-02-2013 16:19
10-02-2013 18:01
10-03-2013 02:00
10-03-2013 09:59
10-03-2013 17:57
10-04-2013 01:33
10-24-2013 15:39
10-24-2013 23:38
10-25-2013 07:37
10-25-2013 15:36
10-25-2013 23:35
10-27-2013 18:49
10-28-2013 02:48
10-28-2013 10:47
10-28-2013 18:46
10-29-2013 02:45
10-29-2013 17:50
10-30-2013 01:49
10-30-2013 09:48
10-30-2013 17:47
10-31-2013 01:45
10-31-2013 09:44
10-31-2013 17:43
11-01-2013 02:36
11-01-2013 10:35
11-01-2013 18:34
11-02-2013 02:33
11-02-2013 10:32
11-02-2013 18:31
11-03-2013 02:30
11-03-2013 10:29
11-03-2013 16:57
11-07-2013 18:52
Cubic Feet Processed Cumulative


SVE Engine - Air, Fuel & Well Valve Positions Over Time
500
450
400
350
300
250
200
150
100
50
0
10-01-2013 01:54
10-01-2013 09:53
10-02-2013 16:19
10-02-2013 18:01
10-03-2013 02:00
10-03-2013 09:59
10-03-2013 17:57
10-04-2013 01:33
10-24-2013 15:39
10-24-2013 23:38
10-25-2013 07:37
10-25-2013 15:36
10-25-2013 23:35
10-27-2013 18:49
10-28-2013 02:48
10-28-2013 10:47
10-28-2013 18:46
10-29-2013 02:45
10-29-2013 17:50
10-30-2013 01:49
10-30-2013 09:48
10-30-2013 17:47
10-31-2013 01:45
10-31-2013 09:44
10-31-2013 17:43
11-01-2013 02:36
11-01-2013 10:35
11-01-2013 18:34
11-02-2013 02:33
11-02-2013 10:32
11-02-2013 18:31
11-03-2013 02:30
11-03-2013 10:29
11-03-2013 16:57
11-07-2013 18:52
Well/Process Valve Position
Air Valve Position
Fuel Valve Position


SVE Engine - Manifold Vacuum Over Time
20
18
16
14
12
10
8
6
4
2
0
10-01-2013 01:54
10-01-2013 09:53
10-02-2013 16:19
10-02-2013 18:01
10-03-2013 02:00
10-03-2013 09:59
10-03-2013 17:57
10-04-2013 01:33
10-24-2013 15:39
10-24-2013 23:38
10-25-2013 07:37
10-25-2013 15:36
10-25-2013 23:35
10-27-2013 18:49
10-28-2013 02:48
10-28-2013 10:47
10-28-2013 18:46
10-29-2013 02:45
10-29-2013 17:50
10-30-2013 01:49
10-30-2013 09:48
10-30-2013 17:47
10-31-2013 01:45
10-31-2013 09:44
10-31-2013 17:43
11-01-2013 02:36
11-01-2013 10:35
11-01-2013 18:34
11-02-2013 02:33
11-02-2013 10:32
11-02-2013 18:31
11-03-2013 02:30
11-03-2013 10:29
11-03-2013 16:57
11-07-2013 18:52
Manifold Vac (Hg)


SVE Engine - Pre- & Post-Cat T, Manifold Vacuum Over Time
10000
1000
100
10
1
Manifold Vac (Hg)
PreCat Temp (F)
PostCat Temp (F)
10-01-2013 01:54
10-01-2013 09:53
10-02-2013 16:19
10-02-2013 18:01
10-03-2013 02:00
10-03-2013 09:59
10-03-2013 17:57
10-04-2013 01:33
10-24-2013 15:39
10-24-2013 23:38
10-25-2013 07:37
10-25-2013 15:36
10-25-2013 23:35
10-27-2013 18:49
10-28-2013 02:48
10-28-2013 10:47
10-28-2013 18:46
10-29-2013 02:45
10-29-2013 17:50
10-30-2013 01:49
10-30-2013 09:48
10-30-2013 17:47
10-31-2013 01:45
10-31-2013 09:44
10-31-2013 17:43
11-01-2013 02:36
11-01-2013 10:35
11-01-2013 18:34
11-02-2013 02:33
11-02-2013 10:32
11-02-2013 18:31
11-03-2013 02:30
11-03-2013 10:29
11-03-2013 16:57
11-07-2013 18:52


SVE Engine - Alternate Fuel Flow Over Time
Flow in SCFM .
3
2.5
2
1.5
1
0.5
0
10-01-2013 01:54
10-01-2013 09:53
10-02-2013 16:19
10-02-2013 18:01
10-03-2013 02:00
10-03-2013 09:59
10-03-2013 17:57
10-04-2013 01:33
10-24-2013 15:39
10-24-2013 23:38
10-25-2013 07:37
10-25-2013 15:36
10-25-2013 23:35
10-27-2013 18:49
10-28-2013 02:48
10-28-2013 10:47
10-28-2013 18:46
10-29-2013 02:45
10-29-2013 17:50
10-30-2013 01:49
10-30-2013 09:48
10-30-2013 17:47
10-31-2013 01:45
10-31-2013 09:44
10-31-2013 17:43
11-01-2013 02:36
11-01-2013 10:35
11-01-2013 18:34
11-02-2013 02:33
11-02-2013 10:32
11-02-2013 18:31
11-03-2013 02:30
11-03-2013 10:29
11-03-2013 16:57
11-07-2013 18:52
Fuel Flow (SCFM)


SVE Engine - RPM, O2 and Pre/Post Cat Temperatures Over Time
4500
4000
3500
3000
2500
2000
1500
1000
500
0
10-01-2013 01:54
10-01-2013 09:53
10-02-2013 16:19
10-02-2013 18:01
10-03-2013 02:00
10-03-2013 09:59
10-03-2013 17:57
10-04-2013 01:33
10-24-2013 15:39
10-24-2013 23:38
10-25-2013 07:37
10-25-2013 15:36
10-25-2013 23:35
10-27-2013 18:49
10-28-2013 02:48
10-28-2013 10:47
10-28-2013 18:46
10-29-2013 02:45
10-29-2013 17:50
10-30-2013 01:49
10-30-2013 09:48
10-30-2013 17:47
10-31-2013 01:45
10-31-2013 09:44
10-31-2013 17:43
11-01-2013 02:36
11-01-2013 10:35
11-01-2013 18:34
11-02-2013 02:33
11-02-2013 10:32
11-02-2013 18:31
11-03-2013 02:30
11-03-2013 10:29
11-03-2013 16:57
11-07-2013 18:52
RPM
PreCat Temp (F)
PostCat Temp (F)
O2 (mV)

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 14, 2013

Debbie Watson

Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-4071
FAX

RE: 810 Thriftway Refinery OrderNo.: 1311394

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 2 sample(s) on 11/11/2013 for the analyses presented in the following report.

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. In order to properly interpret your results it is imperative that you review this report in its entirety. 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. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1311394**
Date Reported: **11/14/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: RSI ~~Pre-Cat~~ (Pre-Engine (DAW))
Project: 810 Thriftway Refinery
Collection Date: 11/8/2013 1:05:00 PM
Lab ID: 1311394-001 **Matrix:** AIR
Received Date: 11/11/2013 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	3600	500		µg/L	100	11/13/2013 1:06:04 PM	R14766
Surr: BFB	160	26.3-265		%REC	100	11/13/2013 1:06:04 PM	R14766
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Methyl tert-butyl ether (MTBE)	ND	25		µg/L	100	11/13/2013 1:06:04 PM	R14766
Benzene	27	10		µg/L	100	11/13/2013 1:06:04 PM	R14766
Toluene	64	10		µg/L	100	11/13/2013 1:06:04 PM	R14766
Ethylbenzene	27	10		µg/L	100	11/13/2013 1:06:04 PM	R14766
Xylenes, Total	170	20		µg/L	100	11/13/2013 1:06:04 PM	R14766
Surr: 4-Bromofluorobenzene	112	75.4-151		%REC	100	11/13/2013 1:06:04 PM	R14766

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Analytical Report
Lab Order **1311394**
Date Reported: **11/14/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Client Sample ID: RSI Post-Cat
Project: 810 Thriftway Refinery
Collection Date: 11/8/2013 1:12:00 PM
Lab ID: 1311394-002 **Matrix:** AIR
Received Date: 11/11/2013 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	28	5.0		µg/L	1	11/13/2013 2:55:11 PM	R14766
Surr: BFB	162	26.3-265		%REC	1	11/13/2013 2:55:11 PM	R14766
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Methyl tert-butyl ether (MTBE)	ND	0.25		µg/L	1	11/13/2013 2:55:11 PM	R14766
Benzene	ND	0.10		µg/L	1	11/13/2013 2:55:11 PM	R14766
Toluene	0.25	0.10		µg/L	1	11/13/2013 2:55:11 PM	R14766
Ethylbenzene	0.23	0.10		µg/L	1	11/13/2013 2:55:11 PM	R14766
Xylenes, Total	1.9	0.20		µg/L	1	11/13/2013 2:55:11 PM	R14766
Surr: 4-Bromofluorobenzene	111	75.4-151		%REC	1	11/13/2013 2:55:11 PM	R14766

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2 for VOA and TOC only.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental Work Order Number: 1311394 RcptNo: 1

Received by/date: AB 11/11/13

Logged By: Lindsay Mangin 11/11/2013 1:00:00 PM

Completed By: Lindsay Mangin 11/11/2013 1:26:44 PM

Reviewed By: MJ 11/11/13

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☐	No ☐	NA ☑
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (If applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	NA	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services LLC

Mailing Address: 624 E Comanche Farmington NM 87401

Phone #: 505 564 2281

email or Fax#:

QA/QC Package: [X] Standard [ ] Level 4 (Full Validation)

Accreditation [ ] NELAP [ ] Other

[ ] EDD (Type)

Turn-Around Time: [X] Standard [ ] Rush

Project Name: 810 Thriftway Refinery

Project #:

Project Manager: D. Watson

Sampler: MB/DW

On Ice: [ ] Yes [ ] No

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	[illegible]	BTEX + MTBE + [redacted] (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
11-8-13	1305	air	RST Pre-Cat	2-Tedlar bags	—	-001	X		X													
11-8-13	1312	air	RST Post-Cat	1	1	-002	X		X													

Date: 11-8-13 Time: 1630 Relinquished by: Deborah Watson

Received by: [signature] Date: 11/11/13 Time: 1300

Date: Time: Relinquished by:

Received by: Date: Time:

Remarks: Bill to BioTech

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.