

GW - 55

REPORTS

Date:

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August 10, 2011

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

**RE: 2nd Quarter Remedial Progress Report 2011 for the Thriftway Refinery, 626
County Road 5500, Bloomfield, New Mexico**

Dear Mr. von Gonten and Mr. Hansen:

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

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

1.0 Groundwater Monitoring and Gauging

BioTech conducted groundwater monitoring and gauging of the monitor wells at the site on May 17 and 18, 2011. Based on the current sampling plan, monitoring and gauging events occur during the first and third quarters of 2011, with groundwater sampling scheduled during the second and fourth quarters. The information below lists wells that were gauged and sampled during the May 2011 event.



Year 2 Quarter #2 Monitor Well Gauging and Sampling List

Well Name	Gauging Only	Gauging and Sampling
TW-1 through TW-6	X	
TW-7 and TW-8		X
TW-9 through TW-12	X	
TW-13* and TW-14*	X	
TW-15 through TW-18	X	
TW-19* and TW-20*	X	
TW-22*	X	
TW-23	X	
TW-24 through TW-26 (all*)	X	
TW-28* and TW-29*	X	
TW-30 and TW-31	X	
TW-32* and TW-33*	X	
TW-34 and TW-35	X	
TW-36*	X	
TW-37 through TW-39		X
TW-40*	X	
TW-41		X
TW-42	X	
TW-43		X
TW-44*	X	
TW-45 and TW-46		X
TW-47 through TW-49	X	
TW-50		X
MW-5 and MW-7	X	
MW-20 and MW-21		X
* During May 2011, these wells contained free product (including sheen of free product) and were not sampled.		

1.1 Measurement of Groundwater Elevations

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

1.2 Measurement of Free Product

Each well previously known to contain light non-aqueous phase liquid (LNAPL, or "free product") was measured with an electronic interface probe, and the depths to the top of product and the oil/water interface were recorded on a groundwater measurement form. Free product was measured in May 2011 in 12 wells, including TW-20, TW-22, TW-24,

TW-25, TW-26, TW-28, TW-29, TW-32, TW-33, TW-36, TW-40, and TW-44. A sheen of free product was observed in three wells, including TW-13, TW-14, and TW-19.

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

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

where:

H_m is the measured elevation of the hydrocarbon-water interface (ft)

H_o is the thickness of the hydrocarbon layer (ft)

ρ_o is the hydrocarbon density of diesel, assumed to be 0.827 (g/ml) (API, 1986)

ρ_w is the water density, assumed to be 1.0 (g/mL)

1.3 Groundwater Sampling

Once the depth to groundwater was measured in each well to be sampled, the well was purged with a new disposable bailer to remove stagnant water from the well.

Groundwater samples were then collected. Groundwater sampling procedures included the following:

1. A new disposable bailer was used at each well. Samples were collected using a slow release valve attached to the bottom of the bailer (to ensure a slow flow and less volatilization of contaminants from groundwater). Each sample container was filled completely, ensuring there were no bubbles or headspace in the sample bottles.
2. Each bottle was labeled, and chain-of-custody documentation was filled out as each well was sampled. Clean sample containers, obtained from the analyzing laboratory, were utilized during the sampling events.
3. Samples were placed in an insulated cooler and maintained at temperature below 6 °C during transportation to Hall Environmental Analysis Laboratory (Hall), Albuquerque, New Mexico.

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

1.4 Equipment Decontamination Protocols

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

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

1.5 Laboratory Analyses

Samples collected from 12 wells, including TW-7, TW-8, TW-37 through TW-39, TW-41, TW-42, TW-45, TW-46, TW-50, MW-20, and MW-21, were analyzed for the following:

- Benzene, toluene, ethylbenzene, xylenes (BTEX), methyl-t-butyl ether (MTBE), and naphthalene per EPA Method 8260;
- Chloride and sulfate per EPA Method 300.0; and
- Total dissolved solids (TDS) per Standard Method 2540C.

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

2.0 Groundwater Monitoring Results

2.1 Hydraulic Gradient and Water Quality Data

2.1.1 Hydraulic Gradient

Using surveyed top of casing (TOC) elevations and the recorded groundwater depths, AES determined specific groundwater elevations, relative to sea level, for each well measured. Groundwater elevations across the site in May 2011 ranged from 5,423.94 feet above mean sea level (AMSL) in MW-5 to 5,440.96 feet AMSL in TW-1. Groundwater elevations have increased across the site by an average of 0.16 feet since the last sampling event in February 2011. Groundwater gradient was calculated between TW-1 and MW-5, with a magnitude of 0.008 ft/ft to the northwest for May 2011. The groundwater flow direction has remained stable, in a northwesterly direction, and is consistent with historical site data.

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

2.1.2 Water Quality Data

During the purging of each well prior to sampling, water quality data was recorded until temperature, pH, conductivity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) measurements stabilized. Recorded temperatures during the May 2011 sampling event ranged from 11.33 °C in MW-20 to 14.65 °C in TW-7. Groundwater pH ranged between 6.93 (TW-43) and 7.19 (TW-39), and conductivity readings were between 2.778 mS/cm in TW-46 and 5.675 mS in TW-41. Dissolved oxygen concentrations ranged from 0.25 mg/L in TW-8 to 1.05 mg/L in MW-21. ORP ranged from -21.8 mV (TW-7) to -7.1 mV (TW-43).

2.2 Free Product

Free product was measured in 12 monitor wells, including TW-20, TW-22, TW-24, TW-25, TW-26, TW-28, TW-29, TW-32, TW-33, TW-36, TW-40, and TW-44. Measured LNAPL thicknesses ranged from 0.01 feet (TW-36) to 1.46 feet (TW-32). A sheen of free product was observed in TW-13, TW-14, and TW-19. Free product thickness contours for May 2011 are presented in Figure 3, and Graph 1 includes free product thicknesses over time in the eastern portion of the product plume (TW-13, TW-14, TW-19, and TW-22).

2.3 Dissolved Phase Contaminant Concentrations

2.3.1 Volatile Organics

Dissolved phase benzene concentrations outside the area of free product exceeded the New Mexico Water Quality Control Commission (WQCC) standard of 10 µg/L in six of the 12 wells sampled, including TW-8 (32 µg/L), TW-37 (420 µg/L), TW-38 (37 µg/L), TW-39 (41 µg/L), TW-41 (110 µg/L), TW-50 (13 µg/L). Dissolved phase benzene concentration contours for May 2011 are included on Figure 4.

Toluene and ethylbenzene concentrations outside the area of free product were below laboratory detection limits or below the applicable WQCC standards of 750 µg/L in all sampled wells. Xylene concentrations were also below laboratory detection limits or below the applicable WQCC standard of 620 µg/L in all wells sampled, with the exception of TW-41 (2,700 µg/L).

Dissolved phase MTBE concentrations outside the area of free product were above the WQCC standard of 100 µg/L in six of the wells sampled in May 2011, including TW-37 (230 µg/L), TW-38 (140 µg/L), TW-42 (600 µg/L), TW-45 (630 µg/L), TW-46 (160 µg/L), and MW-21 (160 µg/L). All other wells were either below the laboratory detection limits (5.0 µg/L and 10.0 µg/L) or below applicable WQCC standards. MTBE concentration contours for May 2011 are included on Figure 5.

Dissolved phase total naphthalene concentrations outside the area of free product were above the WQCC standard of 30 µg/L in two wells, TW-7 (49 µg/L) and TW-41 (70 µg/L). The remaining wells sampled were either below laboratory detection limits or below the applicable WQCC standard.

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

2.3.2 Geochemical Parameters

Chloride concentrations were reported above the WQCC standard of 250 mg/L in TW-37 (260 mg/L), TW-39 (550 mg/L), TW-41 (910 mg/L), TW-45 (280 mg/L), TW-46 (400 mg/L), TW-50 (1,100 mg/L), MW-20 (380 mg/L), and MW-21 (750 mg/L). The remaining wells had chloride concentrations below the WQCC standard.

Sulfate concentrations were reported above the WQCC standard of 600 mg/L in all sampled wells. Reported sulfate concentrations ranged from 970 mg/L (TW-50) to 2,800 mg/L (TW-7).

TDS concentrations were above the WQCC standard of 1,000 mg/L in all wells sampled, with the highest TDS concentrations detected in MW-21 (5,500 mg/L).

Groundwater geochemical results have been summarized in Table 2A. Electronic copies of laboratory analytical reports are included in Appendix A

3.0 Measurement of Groundwater and Free Product in MPE Wells

BioTech personnel measured depth to groundwater in the Phase 1, 2, and 3 MPE wells on May 19, May 20, and 25, 2011. Depth to water ranged from 14.01 feet below TOC in MPE-56 to 23.63 feet below TOC in MPE-1. On May 19, May 20, and 25, 2011, free product was reported in MPE-5 (0.01 feet), MPE-26 (0.04 feet), MPE-44 (0.01 feet), MPE-47 (0.02 feet), and MPE-53 (0.45 feet). Roots in the wells prevented recording of

groundwater measurements in MPE-11, MPE-12, MPE-27, and MPE-28. MPE well data is included in Table 3.

4.0 MPE Remediation System Operations

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

Both Engine #1 and Engine #2 were shut-down during September 2010 due to extensive mechanical problems, so no data report has been generated since September 2010. Following an engine rebuild, Engine #2 was installed at the site on January 4, 2011, and has been in operation during the first and second quarters of 2011. The unit was taken off-line on June 23, 2011, as part of pulsing of the system. The most recent MPE well locations and remediation system layout is included on Figure 4.

RSI Engine #2 Active MPE Well Summary, Thriftway Refinery, Bloomfield, New Mexico

<i>Date of MPE Adjustments</i>	<i>Engine #2-(operating within the following MPE Wells)</i>
March 30, 2011	TW-13,TW-19,MPE-26, MPE-35, MPE-43, MPE-44, MPE-45, MPE-46
May 2, 2011	MPE Well Adjustment- TW-13, TW-19, MPE-26 and MPE-38
May 3, 2011	Engine shutdown-high water levels
May 4, 2011	TW-13, TW-19, MPE-26 and MPE-38
May 6, 2011	Engine shutdown-high water levels
May 10, 2011	TW-13, TW-19, MPE-26 and MPE-38
May 17, 2011	MPE Well Adjustment-TW-13, TW-20, and MPE-26
June 8, 2011	MPE Well Adjustment-TW-22and MPE-53
June 16, 2011	Engine shutdown-high water levels
June 17, 2011	TW-22and MPE-53
June 23, 2011	Engine (taken off-line as part of pulsing of system).

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. Engine #1 is currently not in operation, therefore, no data report was generated for Engine #1 during the reporting period of April through June 2011.

In Engine #2, well vacuums for the reporting period from April through June 30, 2011, typically ranged between 20 and 110 in-H₂O during MPE operations, with total process flow typically ranging between 7 and 47 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 from April 1 to June 30, 2011, the following remedial summary is presented:

MPE Remediation System Summary, Thriftway Refinery, Bloomfield, New Mexico

<i>Parameters</i>	<i>Engine #1 Reporting Period (4/1/11—6/30/11)</i>	<i>Engine #2 Reporting Period (4/1/11—6/30/11)</i>	<i>Total Cumulative to Date</i>
Estimated Petroleum Hydrocarbons Removed (lbs)*	NA	2,681.83	19,156.96
Equivalent Gallons Gasoline Removed (gal)*	NA	432.67	3,090.02
Total Cubic Feet Processed (scf)	NA	1,998,509	14,697,171

*from soil vapors only

MPE Remediation System Run Time Summary, Thriftway Refinery, Bloomfield, New Mexico

<i>Month</i>	<i>Engine #1 Run Time (hrs)</i>	<i>Engine #1 Percent Run Time</i>	<i>Engine #2 Run Time (hrs)</i>	<i>Engine #2 Percent Run Time</i>
April through June 2011	NA	No data**	1,099	50 %

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

During the second quarter Engine #2 had a 96 percent run time for April, a 30 percent run time for May, and a 26 percent run time for June 2011. Operation of Engine #2 was reduced during June due to the diminishing amount of free product available for extraction. An operations report for Engine #2 (electronic) from April 1 through June 30, 2011, is presented in Appendix A.

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 pre-cat and post-cat sample ports of Engine #2 on June 2, 2011. Air samples were not collected from Engine #1, which has not been in operation. 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. During sampling, the pre-engine sample and post-cat samples collected from Engine #2 were inadvertently switched and labeled incorrectly. 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 well gas influent had reported concentrations of 0.402 parts per million by volume (ppmv) benzene, and 2.88 ppmv TPH-GRO. Ethylbenzene (0.021 ppmv), xylenes (0.063), and MTBE (0.064 ppmv) concentrations were reported below laboratory detection limits.

Analytical results for the pre-cat sample showed reported concentrations of 0.270 ppmv benzene, 0.071 ppmv toluene, and 2.64 ppmv TPH-GRO. Concentrations of ethylbenzene (0.021 ppmv), xylenes (0.063 ppmv), and MTBE (0.064 ppmv) were reported below laboratory detection limits. The analytical results for the post-cat sample had reported concentrations below laboratory detection limits for benzene (0.0287 ppmv), toluene (0.024 ppmv), ethylbenzene (0.021 ppmv), xylene (0.063 ppmv), MTBE (0.064 ppmv), and TPH-GRO (1.2 ppmv). Contaminant removal through combustion and the catox was calculated to be greater than 99 percent for BTEX and MTBE and 97.6 percent for TPH-GRO.

Tabulated air analyses are included in Table 4, and air laboratory analytical reports (electronic) are presented in Appendix A.

5.0 Phytoremediation Project

During the first quarter of 2011, BioTech personnel and New Mexico State University (NMSU) Farmington Agricultural Science Center personnel planted 240 20-foot tall poplar trees at the site. Throughout the second quarter, BioTech personnel have irrigated the plants associated with the phytoremediation program (plantings of 2010 and 2011).

On June 22, 2011, BioTech personnel, along with Mick O'Neill and NMSU students, conducted a site inspection. Poplars from both plantings, Spring 2010 and Spring 2011, showed excellent foliage in June 2011. Out of the 240 recently planted poplar poles, only one has died, resulting in a survival rate greater than 99 percent.

A photo log (June 22, 2011) documenting recent site conditions and current phytoremediation plant health is included in Appendix A. A copy of the NMSU *Preliminary Update – Poplar Phytoremediation Project on an Abandoned Oil Refinery Site in Northwestern New Mexico* is also included in Appendix A.

6.0 Summary and Conclusions

BioTech Remediation completed groundwater monitoring and gauging at the site in May 2011. Groundwater elevations in May 2011 increased by an average of 0.16 feet since February 2011 and are consistent with historical seasonal fluctuations. The groundwater gradient was calculated to be approximately 0.008 ft/ft in a northwest direction across the site, which is also consistent with historical site data.

In May 2011, free product was observed and measured in 12 monitor wells, including TW-20, TW-22, TW-24, TW-25, TW-26, TW-28, TW-29, TW-32, TW-33, TW-36, TW-40, and TW-44. Measured thicknesses ranged from 0.01 feet (TW-36) and 1.46 feet (TW-32). Sheens of free product were observed in TW-13, TW-14, and TW-19. In May 2011, free product was also observed in remediation wells MPE-5, MPE-26, MPE-44, MPE-47, and MPE-53.

Based upon the analytical results for the May 2011 sampling event, dissolved phase contaminant concentrations of benzene, xylenes, MTBE, and TDS exceeded the New Mexico WQCC standards in several wells. The highest benzene concentration was reported at 420 µg/L in TW-37. Xylene concentrations above the applicable WQCC standard of 620 µg/L was reported in TW-41 (2,700 µg/L). The highest dissolved phase MTBE concentration was detected in TW-45 (630 µg/L). Monitor wells TW-7 and TW-41 exceeded the WQCC standard for naphthalene with 49 µg/L and 70 µg/L, respectively.

Geochemical data for the May 2011 sampling event showed that chloride concentrations exceeded the WQCC standard of 250 mg/L in eight of the 12 sampled wells with the highest concentration being reported in TW-50 (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-7 with 2,800 mg/L. All wells exceeded the WQCC standard of 1,000 mg/L for TDS with the highest concentration reported in Mw-21 (5,500 mg/L). The groundwater monitor wells at the site have historically shown elevated TDS concentrations, which is attributable to the site's proximity to the Kutz Wash and shallow depth to groundwater.

The MPE remediation unit has been operating since March 10, 2010. Both engines (Engine #1 and Engine #2) were operated through mid September 2010, when both were removed from the site for scheduled rebuilds. Engine #2, following an engine rebuild, was installed and turned on at the site on January 4, 2011, and has been in operation during the first and second quarters of 2011. Based on system data and field monitoring measurements, AES estimates that approximately **2,682 lbs** of petroleum hydrocarbons have been removed as vapor and utilized as fuel for the RSI unit during the reporting period of April 1 through June 30, 2011. A total of **19,157 lbs** of petroleum hydrocarbons have been mechanically removed from the site since system startup on March 10, 2010.

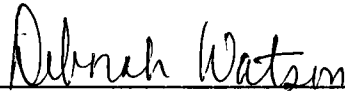
7.0 Recommendations and Scheduled Site Activities

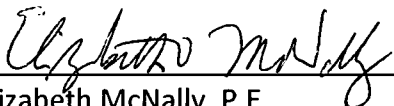
The following items are scheduled to occur during the 3rd Quarter of 2011:

1. In accordance with the conditions of the Interim Groundwater Sampling Plan approval by NMOCD, the quarterly groundwater and NAPL monitoring and gauging event will be conducted in August, and the second semi-annual sampling event will be conducted in November 2011.
2. A representative from BioTech and/or NMSU Agricultural Science Center at Farmington will continue to monitor the status and growth of plants and trees associated with the phytoremediation project. BioTech will continue irrigation of this area during the third quarter.
3. Once Engine #2 is returned to service, BioTech will collect air emission samples from the well gas influent and from the pre-cat and post-cat sample ports. Air samples will be analyzed for BTEX and MTBE per EPA Method 8021B and EPA Method 8015B GRO.

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

Sincerely,


Deborah Watson, Project Manager


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

Tables

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

Figures

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

Graphs

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

Appendix A. *Electronic*

Water Sample Collection Forms

Laboratory Analytical Reports

RSI Operational Data Report

Photograph Log of Current Status of Phytoremediation Project, June 2011

Preliminary Update-Poplar Phytoremediation Project on an Abandoned Oil Refinery Site in Northwestern New Mexico (NMSU 2011)

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

S:\Animas 2000\2011 Projects\Thriftway\810 Refinery\Reports\NMOCD Quarterly Remedial Progress Report
080211.docx

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-2	15-Dec-08	5469.31		28.91		5440.40	6.63	4.421	3.60	13.08	125.5	1.25
TW-2	26-Jan-09	5469.31		28.80		5440.51	NM	NM	NM	NM	NM	NM
TW-2	19-Aug-09	5469.31		28.97		5440.34	7.03	2.948	2.68	16.85	291.3	2.00
TW-2	19-Feb-10	5469.31		28.93		5440.38	NM	NM	NM	NM	NM	NM
TW-2	07-May-10	5469.31		28.71		5440.60	NM	NM	NM	NM	NM	NM
TW-2	18-Aug-10	5469.31		28.88		5440.43	NM	NM	NM	NM	NM	NM
TW-2	15-Nov-10	5469.31		29.11		5440.20	NM	NM	NM	NM	NM	NM
TW-2	17-Feb-11	5469.31		28.97		5440.34	NM	NM	NM	NM	NM	NM
TW-2	17-May-11	5469.31		28.85		5440.46	NM	NM	NM	NM	NM	NM
TW-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

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

<i>Well ID</i>	<i>Date</i>	<i>T.O.C. (ft amsl)</i>	<i>Depth to Product (ft)</i>	<i>Depth to Water (ft)</i>	<i>NAPL Thickness (ft)</i>	<i>Corrected GW Elev. (ft)</i>	<i>pH</i>	<i>Conductivity (mS)</i>	<i>Dissolved Oxygen (mg/L)</i>	<i>Temp. (°C)</i>	<i>ORP (mV)</i>	<i>Purge Volume (gallons)</i>
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-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-5	15-Dec-08	5465.18		25.54		5439.64	6.56	3.704	3.26	14.25	16.0	1.25
TW-5	26-Jan-09	5465.18		25.44		5439.74	NM	NM	NM	NM	NM	NM
TW-5	19-Aug-09	5465.18		25.58		5439.60	6.96	3.636	5.53	16.55	298.9	3.60
TW-5	19-Feb-10	5465.18		25.53		5439.65	NM	NM	NM	NM	NM	NM
TW-5	10-May-10	5465.18		25.31		5439.87	NM	NM	NM	NM	NM	NM
TW-5	18-Aug-10	5465.18		25.49		5439.69	NM	NM	NM	NM	NM	NM
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-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

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	10-May-10	5463.57		24.54		5439.03	NM	NM	NM	NM	NM	NM
TW-6	18-Aug-10	5463.57		24.73		5438.84	NM	NM	NM	NM	NM	NM
TW-6	15-Nov-10	5463.57		24.90		5438.67	NM	NM	NM	NM	NM	NM
TW-6	17-Feb-11	5463.57		24.57		5439.00	NM	NM	NM	NM	NM	NM
TW-6	17-May-11	5463.57		24.64		5438.93	NM	NM	NM	NM	NM	NM
TW-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-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-9	16-Dec-08	5450.61		12.20		5438.41	6.90	3.473	2.27	14.53	15.6	1.25

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

<i>Well ID</i>	<i>Date</i>	<i>T.O.C. (ft amsl)</i>	<i>Depth to Product (ft)</i>	<i>Depth to Water (ft)</i>	<i>NAPL Thickness (ft)</i>	<i>Corrected GW Elev. (ft)</i>	<i>pH</i>	<i>Conductivity (mS)</i>	<i>Dissolved Oxygen (mg/L)</i>	<i>Temp. (°C)</i>	<i>ORP (mV)</i>	<i>Purge Volume (gallons)</i>
TW-9	26-Jan-09	5450.61		12.05		5438.56	NM	NM	NM	NM	NM	NM
TW-9	20-Aug-09	5450.61		12.49		5438.12	7.57	2.397	1.33	16.93	269.2	2.50
TW-9	19-Feb-10	5450.61		11.99		5438.62	NM	NM	NM	NM	NM	NM
TW-9	10-May-10	5450.61		11.89		5438.72	NM	NM	NM	NM	NM	NM
TW-9	18-Aug-10	5450.61		12.30		5438.31	NM	NM	NM	NM	NM	NM
TW-9	15-Nov-10	5450.61		12.36		5438.25	NM	NM	NM	NM	NM	NM
TW-9	17-Feb-11	5450.61		12.09		5438.52	NM	NM	NM	NM	NM	NM
TW-9	17-May-11	5450.61		12.13		5438.48	NM	NM	NM	NM	NM	NM
TW-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-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

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	17-May-11	5456.31		18.01		5438.30	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	0.1	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-13	16-Dec-08	5458.17	20.64	21.48	0.84	5437.38	Not Sampled - NAPL Present					
TW-13	26-Jan-09	5458.17	20.52	21.46	0.94	5437.49	NM	NM	NM	NM	NM	NM
TW-13	12-Aug-09	5458.17	20.75	21.77	1.02	5437.24	NM	NM	NM	NM	NM	NM
TW-13	11-Nov-09	5458.17	20.76	21.86	1.10	5437.22	NM	NM	NM	NM	NM	NM
TW-13	15-Feb-10	5458.17	20.59	21.48	0.89	5437.43	NM	NM	NM	NM	NM	NM
TW-13	07-May-10	5458.17	20.44	21.03	0.59	5437.63	NM	NM	NM	NM	NM	NM
TW-13	21-Jun-10	5458.17	20.48	21.15	0.67	5437.57	NM	NM	NM	NM	NM	NM
TW-13	18-Aug-10	5458.17	20.77	21.15	0.38	5437.33	NM	NM	NM	NM	NM	NM
TW-13	15-Nov-10	5458.17	20.79	21.39	0.60	5437.28	NM	NM	NM	NM	NM	NM
TW-13	23-Feb-11	5458.17	20.58	21.50	0.92	5437.43	NM	NM	NM	NM	NM	NM
TW-13	18-May-11	5458.17		20.66		5437.51	Not Sampled - Sheen of NAPL Present					
TW-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					

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

<i>Well ID</i>	<i>Date</i>	<i>T.O.C. (ft amsl)</i>	<i>Depth to Product (ft)</i>	<i>Depth to Water (ft)</i>	<i>NAPL Thickness (ft)</i>	<i>Corrected GW Elev. (ft)</i>	<i>pH</i>	<i>Conductivity (mS)</i>	<i>Dissolved Oxygen (mg/L)</i>	<i>Temp. (°C)</i>	<i>ORP (mV)</i>	<i>Purge Volume (gallons)</i>
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
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-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-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		11.1		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

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-18	16-Dec-08	5452.73		16.40		5436.33	6.65	5.094	0.88	16.42	-170.9	1.25
TW-18	26-Jan-09	5452.73		16.29		5436.44	NM	NM	NM	NM	NM	NM
TW-18	21-Aug-09	5452.73		16.48		5436.25	6.94	5.273	7.64	17.32	285.8	4.00
TW-18	17-Feb-10	5452.73		16.21		5436.52	6.8	7.990	2.04	15.58	210	3.30
TW-18	10-May-10	5452.73		16.11		5436.62	7.1	4.830	0.75	15.40	222	3.75
TW-18	18-Aug-10	5452.73		16.31		5436.42	NM	NM	NM	NM	NM	NM
TW-18	16-Nov-10	5452.73		16.50		5436.23	7.1	4.730	0.82	16.85	-19	3.00
TW-18	17-Feb-11	5452.73		16.33		5436.40	NM	NM	NM	NM	NM	NM
TW-18	18-May-11	5452.73		16.30		5436.43	NM	NM	NM	NM	NM	NM
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

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	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-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-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									

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	17-Dec-08	5450.19	14.75	14.76	0.01	5435.44	Not Sampled - NAPL Present					
TW-22	26-Jan-09	5450.19	14.69	15.26	0.57	5435.40	NM	NM	NM	NM	NM	NM
TW-22	13-Aug-09	5450.19	14.79	15.39	0.60	5435.30	Not Sampled - NAPL present					
TW-22	12-Nov-09	5450.19	14.88	15.58	0.70	5435.19	NM	NM	NM	NM	NM	NM
TW-22	15-Feb-10	5450.19	14.72	15.03	0.31	5435.42	NM	NM	NM	NM	NM	NM
TW-22	07-May-10	5450.19	14.63	14.73	0.10	5435.54	NM	NM	NM	NM	NM	NM
TW-22	18-Aug-10	5450.19	14.74	15.01	0.27	5435.40	NM	NM	NM	NM	NM	NM
TW-22	15-Nov-10	5450.19	14.94	15.14	0.20	5435.22	NM	NM	NM	NM	NM	NM
TW-22	23-Feb-11	5450.19	14.8	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-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-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

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	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-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-26	17-Dec-08	5450.34	13.49	14.47	0.98	5436.68	Not Sampled - NAPL Present					
TW-26	26-Jan-09	5450.34	15.80	16.76	0.96	5434.37	NM	NM	NM	NM	NM	NM
TW-26	13-Aug-09	5450.34	15.83	17.29	1.46	5434.26	Not Sampled - NAPL present					
TW-26	12-Nov-09	5450.34	15.91	17.47	1.56	5434.16	NM	NM	NM	NM	NM	NM
TW-26	15-Feb-10	5450.34	15.81	16.86	1.05	5434.35	NM	NM	NM	NM	NM	NM
TW-26	07-May-10	5450.34	15.68	16.22	0.54	5434.57	NM	NM	NM	NM	NM	NM
TW-26	18-Aug-10	5450.34	15.75	16.75	1.00	5434.42	NM	NM	NM	NM	NM	NM
TW-26	15-Nov-10	5450.34	15.85	17.06	1.21	5434.28	NM	NM	NM	NM	NM	NM
TW-26	23-Feb-11	5450.34	15.81	16.75	0.94	5434.37	NM	NM	NM	NM	NM	NM
TW-26	17-May-11	5450.34	15.74	16.50	0.76	5434.47	Not Sampled - NAPL Present					

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	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	10.31	-4.96	5434.83	Not Sampled - NAPL present					
TW-28	12-Nov-09	5449.24	15.35	16.74	1.39	5433.65	NM	NM	NM	NM	NM	NM
TW-28	15-Feb-10	5449.24	15.22	16.10	0.88	5433.87	NM	NM	NM	NM	NM	NM
TW-28	07-May-10	5449.24	15.08	15.47	0.39	5434.09	NM	NM	NM	NM	NM	NM
TW-28	18-Aug-10	5449.24	15.12	16.09	0.97	5433.95	NM	NM	NM	NM	NM	NM
TW-28	15-Nov-10	5449.24	15.49	16.67	1.18	5433.55	NM	NM	NM	NM	NM	NM
TW-28	23-Feb-11	5449.24	15.24	16.39	1.15	5433.80	NM	NM	NM	NM	NM	NM
TW-28	17-May-11	5449.24	15.19	16.09	0.90	5433.89	Not Sampled - NAPL Present					
TW-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-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

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

<i>Well ID</i>	<i>Date</i>	<i>T.O.C. (ft amsl)</i>	<i>Depth to Product (ft)</i>	<i>Depth to Water (ft)</i>	<i>NAPL Thickness (ft)</i>	<i>Corrected GW Elev. (ft)</i>	<i>pH</i>	<i>Conductivity (mS)</i>	<i>Dissolved Oxygen (mg/L)</i>	<i>Temp. (°C)</i>	<i>ORP (mV)</i>	<i>Purge Volume (gallons)</i>
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-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-32	17-Dec-08	5441.61	7.22	8.79	1.57	5434.12	Not Sampled - NAPL Present					
TW-32	26-Jan-09	5441.61	9.02	10.31	1.29	5432.37	NM	NM	NM	NM	NM	NM
TW-32	13-Aug-09	5441.61	9.12	10.86	1.74	5432.19	Not Sampled - NAPL present					
TW-32	12-Nov-09	5441.61	9.26	10.88	1.62	5432.07	NM	NM	NM	NM	NM	NM
TW-32	16-Feb-10	5441.61	8.97	9.98	1.01	5432.47	NM	NM	NM	NM	NM	NM
TW-32	07-May-10	5441.61	8.92	9.34	0.42	5432.62	NM	NM	NM	NM	NM	NM
TW-32	18-Aug-10	5441.61	9.00	10.18	1.18	5432.41	NM	NM	NM	NM	NM	NM
TW-32	15-Nov-10	5441.61	9.30	10.87	1.57	5432.04	NM	NM	NM	NM	NM	NM
TW-32	23-Feb-11	5441.61	9.23	10.79	1.56	5432.11	NM	NM	NM	NM	NM	NM
TW-32	17-May-11	5441.61	9.26	10.72	1.46	5432.10	Not Sampled - NAPL Present					

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	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-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		20.1		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-35	18-Dec-08	5449.14		15.21		5433.93	7.04	7.929	4.39	14.98	-189.4	1.25
TW-35	26-Jan-09	5449.14		15.12		5434.02	NM	NM	NM	NM	NM	NM
TW-35	24-Aug-09	5449.14		15.29		5433.85	7.02	11.80	6.40	16.41	295.1	3.30
TW-35	18-Feb-10	5449.14		15.15		5433.99	7.20	11.52	2.91	12.99	-283.0	3.60
TW-35	12-May-10	5449.14		14.91		5434.23	7.17	6.714	1.91	12.77	197.4	3.75
TW-35	18-Aug-10	5449.14		15.08		5434.06	NM	NM	NM	NM	NM	NM

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

<i>Well ID</i>	<i>Date</i>	<i>T.O.C. (ft amsl)</i>	<i>Depth to Product (ft)</i>	<i>Depth to Water (ft)</i>	<i>NAPL Thickness (ft)</i>	<i>Corrected GW Elev. (ft)</i>	<i>pH</i>	<i>Conductivity (mS)</i>	<i>Dissolved Oxygen (mg/L)</i>	<i>Temp. (°C)</i>	<i>ORP (mV)</i>	<i>Purge Volume (gallons)</i>
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-36	18-Dec-08	5441.91		13.03		5428.88	6.94	7.874	3.6	15.28	-270.7	1.25
TW-36	26-Jan-09	5441.91	12.94	12.97	0.03	5428.96	NM	NM	NM	NM	NM	NM
TW-36	13-Aug-09	5441.91	13.17	13.35	0.18	5428.71	Not Sampled - NAPL present					
TW-36	13-Nov-09	5441.91	13.25	13.63	0.38	5428.59	NM	NM	NM	NM	NM	NM
TW-36	16-Feb-10	5441.91	12.96	12.98	0.02	5428.95	NM	NM	NM	NM	NM	NM
TW-36	12-May-10	5441.91		12.70		5429.21	7.08	6.193	1.42	12.75	388.4	3.75
TW-36	18-Aug-10	5441.91	13.10	13.18	0.08	5428.80	NM	NM	NM	NM	NM	NM
TW-36	15-Nov-10	5441.91	13.20	13.35	0.15	5428.68	NM	NM	NM	NM	NM	NM
TW-36	23-Feb-11	5441.91		13.03		5428.88	NM	NM	NM	NM	NM	NM
TW-36	17-May-11	5441.91	12.97	12.98	0.01	5428.94	Not Sampled - NAPL Present					
TW-37	17-Dec-08	5439.59		10.57		5429.02	6.51	4.698	3.5	14.02	-221.3	1.25
TW-37	26-Jan-09	5439.59		10.47		5429.12	NM	NM	NM	NM	NM	NM
TW-37	21-Aug-09	5439.59		10.71		5428.88	7.22	6.162	4.35	18.77	296.1	3.00
TW-37	16-Feb-10	5439.59		10.44		5429.15	6.77	6.700	1.11	12.18	430.5	3.00
TW-37	11-May-10	5439.59		10.16		5429.43	6.98	4.092	1.27	12.84	224.6	3.75
TW-37	19-Aug-10	5439.59		10.53		5429.06	7.05	4.268	0.41	18.90	324.2	1.50
TW-37	16-Nov-10	5439.59		10.68		5428.91	7.05	4.503	0.61	16.79	-13.6	3.00
TW-37	17-Feb-11	5439.59		10.58		5429.01	NM	NM	NM	NM	NM	NM
TW-37	18-May-11	5439.59		10.5		5429.09	7.05	4.162	0.77	13.42	-13.9	0.50
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

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

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-38	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-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-40	18-Dec-08	5437.50		5.30		5432.20	Not Sampled - Sheen of NAPL Present					
TW-40	26-Jan-09	5437.50		7.27		5430.23	NM	NM	NM	NM	NM	NM
TW-40	13-Aug-09	5437.50	7.90	8.53	0.63	5429.49	Not Sampled - NAPL present					
TW-40	13-Nov-09	5437.50	7.93	8.49	0.56	5429.47	NM	NM	NM	NM	NM	NM
TW-40	16-Feb-10	5437.50	6.84	7.76	0.92	5430.50	NM	NM	NM	NM	NM	NM
TW-40	07-May-10	5437.50	6.78	7.90	1.12	5430.53	NM	NM	NM	NM	NM	NM
TW-40	18-Aug-10	5437.50	7.50	7.88	0.38	5429.93	NM	NM	NM	NM	NM	NM
TW-40	15-Nov-10	5437.50	7.97	8.51	0.54	5429.44	NM	NM	NM	NM	NM	NM

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

<i>Well ID</i>	<i>Date</i>	<i>T.O.C. (ft amsl)</i>	<i>Depth to Product (ft)</i>	<i>Depth to Water (ft)</i>	<i>NAPL Thickness (ft)</i>	<i>Corrected GW Elev. (ft)</i>	<i>pH</i>	<i>Conductivity (mS)</i>	<i>Dissolved Oxygen (mg/L)</i>	<i>Temp. (°C)</i>	<i>ORP (mV)</i>	<i>Purge Volume (gallons)</i>
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-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-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-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

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	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-44	17-Dec-08	5444.08		12.66		5431.42	6.71	6.494	2.75	15.75	-43.4	1.25
TW-44	26-Jan-09	5444.08		14.93		5429.15	NM	NM	NM	NM	NM	NM
TW-44	24-Aug-09	5444.08		15.15		5428.93	6.74	9.788	6.47	16.80	248.3	1.50
TW-44	18-Feb-10	5444.08	15.02	15.04	0.02	5429.06	NM	NM	NM	NM	NM	NM
TW-44	07-May-10	5444.08	14.66	14.68	0.02	5429.42	NM	NM	NM	NM	NM	NM
TW-44	18-Aug-10	5444.08	14.98	15.00	0.02	5429.10	NM	NM	NM	NM	NM	NM
TW-44	15-Nov-10	5444.08	15.12	15.15	0.03	5428.95	NM	NM	NM	NM	NM	NM
TW-44	17-Feb-11	5444.08	15.02	15.03	0.01	5429.06	NM	NM	NM	NM	NM	NM
TW-44	17-May-11	5444.08	14.96	15.01	0.05	5429.11	Not Sampled - NAPL Present					
TW-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-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

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-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-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-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
TW-49	17-May-11	TBS		6.24			NM	NM	NM	NM	NM	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
MW-5	30-Jan-02	5428.97		5.33								P
MW-5	25-Jul-02	5428.97		5.73			7.8	4.78	1.18	69		P

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	21-Nov-02	5428.97		5.43								
MW-5	05-Jun-03	5428.97		5.02			8.0	3.07	1.44	59.4		B
MW-5	19-Jan-04	5428.97		5.25			7.7	1.14	2.61	47.6		P
MW-5	25-May-04	5428.97		5.04			7.5	3.21	0.45	60.4		3.00
MW-5	27-Jul-04	5428.97		5.43			8.1	4.07		75.5		B
MW-5	28-Dec-04	5428.97		5.26			8.0					MP
MW-5	31-Mar-05	5428.97		4.62			7.3	2.77	0.39	52.7		MP
MW-5	19-Sep-05	5428.97	DRY	DRY	DRY		NM	NM	NM	NM		
MW-5	5-Jan-06	5428.97	DRY	DRY	DRY		NM	NM	NM	NM		
MW-5	27-Jun-06	5428.97		5.43			7.2	4.197	0.37	16		3
MW-5	28-Dec-06	5428.97		4.88			7.3	7.927	0.54	10.4		3
MW-5	3-Jul-07	5428.97		5.07			7.86	4.478	2.93	16.4		1.7
MW-5	18-Dec-07	5428.97	Not Sampled - Filled with Roots									
MW-5	19-Dec-08	5428.97		5.04		5423.93	6.76	7.748	4.02	11.73		0.25
MW-5	19-Dec-08	5428.97		5.04		5423.93	6.76	7.748	4.02	11.73		0.25
MW-5	18-Feb-10	5428.97		4.73		5424.24	7.39	8.422	3.30	9.93	403.1	3.00
MW-5	12-May-10	5428.97		4.32		5424.65	7.35	6.146	2.68	11.52	225.3	3.75
MW-5	18-Aug-10	5428.97		4.99		5423.98	NM	NM	NM	NM	NM	NM
MW-5	17-Nov-10	5428.97		5.17		5423.80	7.62	6.121	1.36	14.15	-46.2	3.00
MW-5	17-Feb-11	5428.97		5.08		5423.89	NM	NM	NM	NM	NM	NM
MW-5	17-May-11	5428.97		5.03		5423.94	NM	NM	NM	NM	NM	NM
MW-7	1-Feb-02	5435.28		5.32		37288.00						No Sample
MW-7	29-Jul-02	5435.28		6.11		37466.00						No Sample

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

<i>Well ID</i>	<i>Date</i>	<i>T.O.C. (ft amsl)</i>	<i>Depth to Product (ft)</i>	<i>Depth to Water (ft)</i>	<i>NAPL Thickness (ft)</i>	<i>Corrected GW Elev. (ft)</i>	<i>pH</i>	<i>Conductivity (mS)</i>	<i>Dissolved Oxygen (mg/L)</i>	<i>Temp. (°C)</i>	<i>ORP (mV)</i>	<i>Purge Volume (gallons)</i>
MW-7	6-Jun-03	5435.28		9.06		37778.00						No Sample
MW-7	19-Jan-04	5435.28		9.06		38005.00	7.0	2.827	0.93	49.7		P
MW-7	25-May-04	5435.28		9.14		38132.00	6.8	3.76	0.27	63.2		3
MW-7	27-Jul-04	5435.28		9.08		38195.00	7.3	5.32		72.8		B
MW-7	28-Dec-04	5435.28		9.05		38349.00	7.8					MP
MW-7	31-Mar-05	5435.28		7.67		38442.00	6.5	3.011	0.5	52		MP
MW-7	19-Sep-05	5435.28		9.20		38614.00	7.0	4.802	0.41	70.8		
MW-7	4-Jan-06	5435.28		8.14		38721.00	7.0	3.625	0.48	14.5		3
MW-7	02-Jan-07	5435.28		8.75		39084.00	NM	NM	NM	NM		No Sample
MW-7	19-Dec-07	5435.28		8.43		39435.00	NM	NM	NM	NM		No Sample
MW-7	17-May-10	5435.28		8.5		5426.78	6.95	6.66	3.08	13.83	217.6	3.75
MW-7	19-Aug-10	5435.28		8.2		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-20	31-Jan-02	5430.45		6.04								P
MW-20	26-Jul-02	5430.45		6.31			7.2	2.95	1.22	79.6		P
MW-20	20-Nov-02	5430.45		5.85			7.1	1.9	0.30	55.0		P
MW-20	5-Jun-03	5430.45		5.89			7.1	3.43	1.58	58.1		
MW-20	20-Jan-04	5430.45		6.08			7.5	0.35	3.23	51.8		P
MW-20	25-May-04	5430.45		5.90			7.1	4.01	1.2	72.3		1.5
MW-20	27-Jul-04	5430.45		6.29			7.0	5.12		66.1		B
MW-20	29-Dec-04	5430.45		6.07								MP

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

<i>Well ID</i>	<i>Date</i>	<i>T.O.C. (ft amsl)</i>	<i>Depth to Product (ft)</i>	<i>Depth to Water (ft)</i>	<i>NAPL Thickness (ft)</i>	<i>Corrected GW Elev. (ft)</i>	<i>pH</i>	<i>Conductivity (mS)</i>	<i>Dissolved Oxygen (mg/L)</i>	<i>Temp. (°C)</i>	<i>ORP (mV)</i>	<i>Purge Volume (gallons)</i>
MW-20	1-Apr-05	5430.45		5.69			6.5	2.378	0.55	54.4		
MW-20	19-Sep-05	5430.45		6.02			7.0	3.466	0.37	66.1		
MW-20	4-Jan-06	5430.45		5.85			7.0	3.47	0.6	12.3		3
MW-20	28-Jun-06	5430.45		6.18			6.7	4.979	0.34	17.8		3
MW-20	28-Dec-06	5430.45		5.50			7.0	8.505	0.51	8.9		3
MW-20	2-Jul-07	5430.45		5.75			7.0	4.841	1.32	16.09		2.6
MW-20	18-Dec-07	5430.45		5.89			7.05	5.621	2.89	12.10		1.25
MW-20	21-Jan-09	5430.45		5.86			6.73	5.996	3.58	8.34		0.5
MW-20	18-Feb-10	5430.45		5.81		5424.64	6.67	7.249	3.67	8.20	395.0	2.50
MW-20	13-May-10	5430.45		5.52		5424.93	6.96	4.948	2.09	10.89	216.9	3.75
MW-20	20-Aug-10	5430.45		6.01		5424.44	7.12	4.836	1.09	18.44	236.4	2.50
MW-20	17-Nov-10	5430.45		6.05		5424.4	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-21	30-Jan-02	5428.62		3.41								P
MW-21	26-Jul-02	5428.62		4.15								
MW-21	22-Nov-02	5428.62		3.51			7.1	7.58	0.55	55.0		P
MW-21	5-Jun-03	5428.62		3.21			7.2	7.79	0.95	65.4		
MW-21	20-Jan-04	5428.62		3.57			7.4	0.31	3.40	46.7		P
MW-21	25-May-04	5428.62		3.49			7.2	7.56	0.49	64.5		2.5
MW-21	28-Jul-04	5428.62		4.12			7.3	11.42		67.1		B
MW-21	29-Dec-04	5428.62		3.36								MP
MW-21	1-Apr-05	5428.62		2.77			6.7	5.747	0.28	50.9		

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

<i>Well ID</i>	<i>Date</i>	<i>T.O.C. (ft amsl)</i>	<i>Depth to Product (ft)</i>	<i>Depth to Water (ft)</i>	<i>NAPL Thickness (ft)</i>	<i>Corrected GW Elev. (ft)</i>	<i>pH</i>	<i>Conductivity (mS)</i>	<i>Dissolved Oxygen (mg/L)</i>	<i>Temp. (°C)</i>	<i>ORP (mV)</i>	<i>Purge Volume (gallons)</i>
MW-21	19-Sep-05	5428.62		3.84			7.2	8.598	0.39	67.8		
MW-21	4-Jan-06	5428.62		3.27			7.1	6.118	0.77	11.9		3
MW-21	28-Jun-06	5428.62		3.81			6.8	9.223	0.32	19.8		3
MW-21	02-Jan-07	5428.62		3.23			6.7	9.393	0.9	8.2		3
MW-21	02-Jul-07	5428.62		3.54			7.0	9.066	0.86	18.74		2.7
MW-21	18-Dec-07	5428.62		3.54			7.12	8.043	0.62	12.90		3.25
MW-21	19-Dec-08	5428.62		3.43			6.79	7.562	9.78	11.04		1.25
MW-21	18-Feb-10	5428.62		2.86		5425.76	6.82	9.049	8.21	7.91	367.2	3.00
MW-21	13-May-10	5428.62		2.69		5425.93	7.06	7.075	1.74	12.41	224.9	3.75
MW-21	20-Aug-10	5428.62		3.31		5425.31	7.06	6.836	1.09	21.23	234.4	NM
MW-21	17-Nov-10	5428.62		3.68		5424.94	7.02	7.817	0.56	15.42	-12.0	0.50
MW-21	23-Feb-11	5428.62		3.65		5424.97	NM	NM	NM	NM	NM	NM
MW-21	18-May-11	5428.62		3.52		5425.1	7.07	5.026	1.05	13.05	-14.8	2.00

NOTES: NM - Not Measured

* Denotes erroneous DO measurement - sensor malfunction

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

Well ID		Date Sampled	Benzene	Toluene	Ethyl- benzene	Xylenes	MTBE	Naph- thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C	
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000	
TW-1	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA	
TW-1	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	2,530	
TW-2	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA	
TW-2	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	4,020	
TW-3	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA	
TW-3	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	4,170	
TW-4	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA	
TW-4	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	6,530	
TW-5	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA	
TW-5	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	3,180	
TW-6	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA	
TW-6	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	4,020	
TW-7	15-Dec-08	67	1,700	710	4,200	<10	308	15	2.1	<5.0	NA	
TW-7	19-Aug-09	3.8	11	98	15	<1.0	19	0.79	<1.0	<5.0	3,930	
TW-7	18-May-11	<5.0	23	310	37	<5.0	49	NA	NA	NA	4,330	
TW-8	16-Dec-08	120	15	330	950	<5.0	92	8.9	1.4	<5.0	NA	

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

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naphthalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-8	19-Aug-09	26	<1.0	82	130	<1.0	<2.0	1.7	<1.0	<5.0	4,490
TW-8	18-May-11	32	<5.0	150	130	<5.0	<10	NA	NA	NA	4,140
TW-9	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA
TW-9	20-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	2,070
TW-10	16-Dec-08	1.4	<1.0	3.9	9.9	<1.0	<10	0.29	<1.0	<5.0	NA
TW-10	20-Aug-09	<1.0	<1.0	1.1	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	3,250
TW-11	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA
TW-11	20-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	6,290
TW-11	17-Feb-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0	6,260
TW-11	11-May-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0	6,400
TW-12	15-Dec-08	6.9	33	670	1,700	<5.0	317	3.4	1.9	<5.0	NA
TW-12	20-Aug-09	<1.0	<1.0	19	25	<1.0	<2.0	0.25	<1.0	<5.0	3,490
TW-12	17-Feb-10	1.3	<1.0	35	48	<1.0	2.4	0.43	<1.0	<5.0	3,470
TW-12	11-May-10	1.7	2.0	49	72	<1.0	<2.0	0.18	1.2	<5.0	3,340
TW-12	19-Aug-10	1.4	<1.0	53	65	<1.0	<2.0	0.40	<1.0	<5.0	3,300
TW-13	17-Dec-08	Not Sampled-NAPL present									
TW-13	21-Aug-09	Not Sampled-NAPL present									
TW-13	17-Feb-10	Not Sampled-NAPL present									

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

Well ID	Date Sampled	Benzene	Toluene	Ethyl- benzene	Xylenes	MTBE	Naph- thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-13	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-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-15	16-Dec-08	22	9.2	190	10	<1.0	10	1.1	1.2	<5.0	NA
TW-15	20-Aug-09	6.2	1.7	94	<1.5	<1.0	<2.0	0.69	<1.0	<5.0	5,240
TW-16	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA
TW-16	20-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	4,240
TW-17	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0	NA
TW-17	21-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	4,640
TW-18	16-Dec-08	8.9	<1.0	31	18	1.9	<10	0.70	<1.0	<5.0	NA
TW-18	21-Aug-09	2.5	<1.0	12	<1.5	3.2	<2.0	0.11	<1.0	<5.0	4,440

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

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

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

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naphthalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-21	7-May-10	Not Sampled-Surface Casing Damaged									
TW-21	18-Aug-10	Not Sampled-Surface Casing Damaged									
TW-21	15-Nov-10	Not Sampled-Surface Casing Damaged									
TW-21	18-May-11	Not Sampled-Surface Casing Damaged									
TW-22	17-Dec-08	Not Sampled-NAPL present									
TW-22	21-Aug-09	Not Sampled-NAPL present									
TW-22	17-Feb-10	Not Sampled-NAPL present									
TW-22	7-May-10	Not Sampled-NAPL present									
TW-22	18-Aug-10	Not Sampled-NAPL present									
TW-22	15-Nov-10	Not Sampled-NAPL present									
TW-22	18-May-11	Not Sampled-NAPL present									
TW-23	18-Dec-08	<1.0	<1.0	93	<1.5	<1.0	<10	0.77	1.4	<5.0	NA
TW-23	21-Aug-09	<1.0	<1.0	24	<1.5	<1.0	<2.0	0.34	<1.0	<5.0	5,440
TW-24	17-Dec-08	7.5	<1.0	10	<1.5	5.6	2.6	0.26	<1.0	<5.0	NA
TW-24	21-Aug-09	Not Sampled-NAPL present									
TW-24	17-Feb-10	1.7	<1.0	7.0	<2.0	4.3	<2.0	0.62	2.4	<5.0	4,170
TW-24	11-May-10	9.1	<1.0	25	<2.0	3.8	3.0	0.92	8.7	<5.0	4,280
TW-24	18-Aug-10	Not Sampled-NAPL present (sheen)									
TW-24	15-Nov-10	Not Sampled-NAPL present									
TW-24	18-May-11	Not Sampled-NAPL present									

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

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naphthalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-25	17-Dec-08	Not Sampled-NAPL present									
TW-25	21-Aug-09	Not Sampled-NAPL present									
TW-25	17-Feb-10	Not Sampled-NAPL present									
TW-25	7-May-10	Not Sampled-NAPL present									
TW-25	18-Aug-10	Not Sampled-NAPL present									
TW-25	15-Nov-10	Not Sampled-NAPL present									
TW-25	18-May-11	Not Sampled-NAPL present									
TW-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-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 ANALYTICALS
(VOCs ,TOTAL PETROLEUM HYDROCARBONS, and TDS)
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene	Toluene	Ethyl- benzene	Xylenes	MTBE	Naph- thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-28	18-May-11	Not Sampled-NAPL present									
TW-29	17-Dec-08	Not Sampled-NAPL present									
TW-29	21-Aug-09	Not Sampled-NAPL present									
TW-29	17-Feb-10	34	<1.0	16	260	7.9	40	2.7	13	<5.0	3,250
TW-29	7-May-10	Not Sampled-NAPL present									
TW-29	18-Aug-10	Not Sampled-NAPL present									
TW-29	15-Nov-10	Not Sampled-NAPL present									
TW-29	18-May-11	Not Sampled-NAPL present									
TW-30	18-Dec-08	<1.0	<1.0	<1.0	<1.5	24	<10	0.087	2.8	<5.0	NA
TW-30	21-Aug-09	<1.0	<1.0	<1.0	<1.5	20	<2.0	0.055	<1.0	<5.0	4,550
TW-30	17-Feb-10	<1.0	<1.0	<1.0	<2.0	21	<2.0	0.056	<1.0	<5.0	4,290
TW-30	11-May-10	<1.0	<1.0	<1.0	<2.0	21	<2.0	0.071	<1.0	<5.0	4,310
TW-30	15-Nov-10	3.8	<1.0	<1.0	<1.5	14	<2.0	0.15	<1.0	<5.0	5,630
TW-31	16-Dec-08	<1.0	<1.0	<1.0	<1.5	12	<10	<0.050	<1.0	<5.0	NA
TW-31	21-Aug-09	<1.0	<1.0	<1.0	<1.5	16	<2.0	<0.050	<1.0	<5.0	4,790
TW-31	17-Feb-10	<1.0	<1.0	<1.0	<2.0	10	<2.0	<0.050	<1.0	<5.0	4,690
TW-31	11-May-10	<1.0	<1.0	<1.0	<2.0	9.2	<2.0	<0.050	<1.0	<5.0	5,280
TW-31	16-Nov-10	<1.0	<1.0	<1.0	<1.5	6.5	<2.0	<0.050	<1.0	<5.0	4,680
TW-32	17-Dec-08	Not Sampled-NAPL present									

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

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

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

Well ID		Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naphthalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260							EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000	
TW-35	12-May-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0	6,250	
TW-35	17-Nov-10	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	6,770	
TW-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	5,750	
TW-36	18-Aug-10	Not Sampled-NAPL present										
TW-36	15-Nov-10	Not Sampled-NAPL present										
TW-36	18-May-11	Not Sampled-NAPL present										
TW-37	17-Dec-08	820	<50	560	1,800	180	<500	8.4	19	<5.0	NA	
TW-37	21-Aug-09	250	<5.0	51	32	180	<10	1.7	1.2	<5.0	3,740	
TW-37	18-Feb-10	290	<5.0	53	61	130	<10	2.0	1.4	<5.0	3,400	
TW-37	11-May-10	490	<5.0	150	140	150	<10	3.8	4.3	<5.0	3,250	
TW-37	19-Aug-10	310	<5.0	65	53	140	<10	3.2	22	9.6	3,360	
TW-37	16-Nov-10	280	<1.0	58	46	120	<2.0	1.9	2.3	<5.0	3,380	
TW-37	18-May-11	420	<5.0	21	<10	230	<10	NA	NA	NA	3,680	
TW-38	17-Dec-08	140	<5.0	36	220	190	<50	0.99	<1.0	<5.0	NA	
TW-38	21-Aug-09	Not Sampled-NAPL present										
TW-38	18-Feb-10	26	<1.0	6.3	18	88	<2.0	0.50	<1.0	<5.0	4,070	
TW-38	12-May-10	63	<1.0	15	50	110	3.5	0.67	<1.0	<5.0	4,210	

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

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naphthalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-38	19-Aug-10	140	<1.0	30	58	95	2.2	1.20	<1.0	<5.0	3,910
TW-38	16-Nov-10	140	<1.0	41	71	83	<2.0	1.1	<1.0	<5.0	3,930
TW-38	18-May-11	37	<5.0	6.1	22	140	<10	NA	NA	NA	4,010
TW-39	17-Dec-08	Not Sampled-NAPL present									
TW-39	21-Aug-09	1.7	<1.0	2.8	<1.5	16	<2.0	0.47	<1.0	<5.0	4,460
TW-39	17-Feb-10	2.6	<1.0	2.5	3.5	9.8	<2.0	0.45	<1.0	<5.0	3,580
TW-39	12-May-10	17	<1.0	32	14	19	<2.0	0.45	<1.0	<5.0	4,740
TW-39	19-Aug-10	87	<1.0	77	100	1.5	2.9	1.2	<1.0	<5.0	3,290
TW-39	16-Nov-10	92	<1.0	110	1.8	5.9	<2.0	1.4	<1.0	<5.0	3,070
TW-39	19-May-11	41	<5.0	65	<10	<5.0	<10	NA	NA	NA	3,980
TW-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-41	18-Dec-08	480	<50	570	4,000	<50	<500	8.4	2.0	<5.0	NA
TW-41	24-Aug-09	170	6.6	400	2,000	24	49	7.0	1.1	<5.0	3,510
TW-41	18-Feb-10	140	<10	400	2,500	24	49	7.7	1.5	<5.0	4,230

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

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naphthalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-41	12-May-10	180	<10	530	2,300	20	41	6.9	<3.0	<15	4,590
TW-41	20-Aug-10	190	<10	420	1,400	24	43	8.2	<1.0	<5.0	3,880
TW-41	16-Nov-10	96	<10	480	2,200	17	55	6.6	1.4	<5.0	3,670
TW-41	18-May-11	110	8.5	500	2,700	22	70	NA	NA	NA	3,940
TW-42	16-Dec-08	<1.0	<1.0	31	<1.5	130	<10	0.18	1.2	<5.0	NA
TW-42	24-Aug-09	<1.0	<1.0	<1.0	<1.5	70	<2.0	0.10	<1.0	<5.0	4,260
TW-42	18-Feb-10	<1.0	<1.0	<1.0	<2.0	75	<2.0	0.15	<1.0	<5.0	4,070
TW-42	12-May-10	<1.0	<1.0	<1.0	<2.0	39	<2.0	0.15	<1.0	<5.0	4,510
TW-42	20-Aug-10	<1.0	<1.0	<1.0	<2.0	57	<2.0	0.16	<1.0	<5.0	4,920
TW-42	16-Nov-10	<1.0	<1.0	<1.0	<1.5	53	<2.0	0.16	<1.0	<5.0	5,040
TW-42	18-May-11	<5.0	<5.0	<5.0	<10	600	<10	NA	NA	NA	4,720
TW-43	16-Dec-08	<1.0	<1.0	31	<1.5	1,700	<10	0.80	<1.0	<5.0	
TW-43	24-Aug-09	<1.0	<1.0	<1.0	<1.5	500	<10	0.17	<1.0	<5.0	4,610
TW-43	18-Feb-10	<1.0	<1.0	<1.0	<2.0	430	<2.0	0.37	<1.0	<5.0	4,390
TW-43	12-May-10	<1.0	<1.0	<1.0	<2.0	380	<2.0	0.31	<1.0	<5.0	4,200
TW-43	20-Aug-10	<1.0	<1.0	<1.0	<2.0	380	<2.0	0.38	<1.0	<5.0	4,510
TW-43	16-Nov-10	<1.0	<1.0	<1.0	<1.5	370	<2.0	0.48	<1.0	<5.0	4,450
TW-44	17-Dec-08	58	<5.0	69	340	330	245	2.0	1.8	<5.0	NA
TW-44	24-Aug-09	56	<1.0	6.9	7.3	360	<2.0	0.20	1.2	<5.0	5,520
TW-44	18-Feb-10	Not Sampled-NAPL present									

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

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naphthalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-44	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-45	13-May-10	<1.0	<1.0	<1.0	<2.0	160	<2.0	0.20	<1.0	<5.0	4,480
TW-45	20-Aug-10	<1.0	<1.0	<1.0	<2.0	300	<2.0	0.33	<1.0	<5.0	4,750
TW-45	17-Nov-10	<1.0	<1.0	<1.0	<1.5	170	<2.0	0.23	<1.0	<5.0	4,530
TW-45	18-May-11	<5.0	<5.0	<5.0	<10	630	<10	NA	NA	NA	4,700
TW-46	13-May-10	<1.0	<1.0	<1.0	<2.0	110	<2.0	0.14	<1.0	<5.0	4,080
TW-46	20-Aug-10	<1.0	<1.0	<1.0	<2.0	88	<2.0	0.13	<1.0	<5.0	4,430
TW-46	18-May-11	<5.0	<5.0	<5.0	<10	160	<10	NA	NA	NA	3,640
TW-47	13-May-10	<1.0	<1.0	<1.0	<2.0	9.4	<2.0	<0.050	<1.0	<5.0	10,000
TW-47	20-Aug-10	<1.0	<1.0	<1.0	<2.0	18	<2.0	<0.050	<1.0	<5.0	9,940
TW-47	17-Nov-10	<1.0	<1.0	<1.0	<1.5	8.2	<2.0	<0.050	<1.0	<5.0	8,800
TW-48	12-May-10	<1.0	<1.0	<1.0	<2.0	13	<2.0	0.061	<1.0	<5.0	4,560
TW-48	19-Aug-10	<1.0	<1.0	<1.0	<2.0	16	<2.0	0.067	<1.0	<5.0	4,440
TW-49	17-May-10	<1.0	<1.0	<1.0	<2.0	17	<2.0	<0.050	<1.0	<5.0	5,580
TW-49	20-Aug-10	<1.0	<1.0	<1.0	<2.0	14	<2.0	<0.050	<1.0	<5.0	8,120

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

Well ID	Date Sampled	Benzene	Toluene	Ethyl- benzene	Xylenes	MTBE	Naph- thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-49	17-Nov-10	<1.0	<1.0	<1.0	<1.5	28	<2.0	0.12	<1.0	<5.0	7,470
TW-50	12-May-10	72	<10	260	1,200	16	63	7.7	4.0	<5.0	4,320
TW-50	19-Aug-10	6.9	<5.0	69	100	19	<10	2.4	<1.0	<5.0	4,500
TW-50	18-May-11	13	<5.0	150	190	<5.0	<10	NA	NA	NA	4,150
MW-5	30-Jan-02	5.1	<0.5	<0.5	<1.50	43	NA	NA	NA	NA	NA
MW-5	25-Jul-02	4.7	ND	ND	ND	51	NA	NA	NA	NA	NA
MW-5	26-Nov-02	5.1	ND	ND	ND	47	NA	NA	NA	NA	NA
MW-5	5-Jun-03	1.5	ND	ND	ND	25	NA	NA	NA	NA	NA
MW-5	3-Nov-03	ND	ND	ND	ND	26	NA	NA	NA	NA	NA
MW-5	19-Jan-04	3.8	0.9	<0.5	1.4	44	NA	NA	NA	NA	NA
MW-5	25-May-04	1.8	0.5	<0.5	<1.0	36	NA	0.14	NA	NA	NA
MW-5	27-Jul-04	<0.5	<0.5	<0.5	<1.0	29	NA	<0.10	NA	NA	NA
MW-5	28-Dec-04	<0.5	<0.5	<0.5	<1.0	27	NA	<0.10	NA	NA	NA
MW-5	27-Jun-06	1.5	<0.5	<0.5	<2.0	37	NA	<0.10	<2.5	NA	NA
MW-5	28-Dec-06	<0.5	<0.5	<0.5	<2.0	37	NA	<0.10	<1.0	NA	NA
MW-5	5-Jul-07*	2.4	<0.5	0.8	<2.0	28*	NA	0.14	<2.0	NA	NA
MW-5	19-Dec-08	<1.0	<1.0	<1.0	<1.5	46	<10	0.066	<1.0	<5.0	NA
MW-5	18-Feb-10	<1.0	<1.0	<1.0	<2.0	49	<2.0	0.12	<1.0	<5.0	4,350
MW-5	12-May-10	<1.0	<1.0	<1.0	<2.0	63	<2.0	0.10	<1.0	<5.0	4,590
MW-5	17-Nov-10	<1.0	<1.0	<1.0	<1.5	54	<2.0	0.11	<1.0	<5.0	4,630

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

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naph-thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
MW-7	4-Jan-06*	1.9	<0.5	1.7	2.1	120	NA	0.16	<1.0	NA	NA
MW-7	17-May-10	17	<1.0	<1.0	<2.0	23	<2.0	0.14	<1.0	<5.0	5,480
MW-7	19-Aug-10	6.9	<1.0	<1.0	<2.0	74	<2.0	0.22	<1.0	<5.0	4,720
MW-20	30-Jan-02	1.6	3.7	6.3	1.2	670	NA	NA	NA	NA	NA
MW-20	26-Jul-02	ND	ND	ND	ND	950	NA	NA	NA	NA	NA
MW-20	26-Nov-02	1.6	ND	ND	2	350	NA	NA	NA	NA	NA
MW-20	5-Jun-03	7	ND	7.1	7.2	630	NA	NA	NA	NA	NA
MW-20	4-Nov-03	3.2	ND	ND	5.1	480	NA	NA	NA	NA	NA
MW-20	19-Jan-04	2.8	<0.5	1.4	3.3	680	NA	NA	NA	NA	NA
MW-20	25-May-04	1.9	<0.5	3.3	7.6	400	NA	0.82	NA	NA	NA
MW-20	27-Jul-04	2.1	<0.5	<0.5	2.3	590	NA	0.91	NA	NA	NA
MW-20	29-Dec-04	2.0	<0.5	<0.5	7.2	300	NA	0.89	NA	NA	NA
MW-20	19-Sep-05	<2.5	<2.5	<2.5	5.4	160	NA	1.2	NA	NA	NA
MW-20	4-Jan-06	<0.5	<0.5	<0.5	<2.0	400	NA	0.50	<1.0	NA	NA
MW-20	28-Jun-06	0.6	<0.5	<0.5	<2.0	310	NA	0.23	3.2	NA	NA
MW-20	28-Dec-06	<5.0	20	<5.0	<20	170	NA	1.6	<1.0	NA	NA
MW-20	3-Jul-07	<1.0	4.0	1.7	<4.0	180*	NA	0.34	<2.0	NA	NA
MW-20	18-Dec-07*	<0.5	8.3	<0.5	3.6	360	NA	0.52	<2.0	NA	NA
MW-20	21-Jan-09	<1.0	<1.0	<1.0	<1.5	170	<10	0.47	1.8	<5.0	NA
MW-20	18-Feb-10	2.5	<1.0	<1.0	<2.0	190	<2.0	0.32	<1.0	<5.0	4,420
MW-20	13-May-10	1.7	<1.0	<1.0	<2.0	180	<2.0	0.60	<1.0	<5.0	4,180
MW-20	20-Aug-10	<1.0	<1.0	<1.0	<2.0	200	<2.0	0.50	<1.0	<5.0	4,190

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

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naphthalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
MW-20	17-Nov-10	1.6	<1.0	<1.0	<1.5	160	<2.0	1.0	<1.0	<5.0	3,950
MW-20	18-May-11	<5.0	<5.0	<5.0	<1.5	<10	<10	NA	NA	NA	4,260
MW-21	30-Jan-02	<0.5	<0.5	<0.5	<1.5	44	NA	NA	NA	NA	NA
MW-21	26-Jul-02	ND	ND	ND	ND	34	NA	NA	NA	NA	NA
MW-21	26-Nov-02	1.4	ND	ND	ND	34	NA	NA	NA	NA	NA
MW-21	5-Jun-03	ND	ND	ND	ND	14	NA	NA	NA	NA	NA
MW-21	4-Nov-03	ND	ND	ND	ND	25	NA	NA	NA	NA	NA
MW-21	19-Jan-04	<0.5	<0.5	<0.5	<1.0	<2.5	NA	NA	NA	NA	NA
MW-21	25-May-04	<0.5	<0.5	<0.5	<1.0	18	NA	0.11	NA	NA	NA
MW-21	28-Jul-04	<0.5	<0.5	<0.5	<1.0	24	NA	<0.10	NA	NA	NA
MW-21	29-Dec-04	<0.5	<0.5	<0.5	<1.0	25	NA	<0.10	NA	NA	NA
MW-21	19-Sep-05	<0.5	<0.5	<0.5	<1.0	29	NA	<0.10	NA	NA	NA
MW-21	4-Jan-06	<0.5	<0.5	<0.5	<2.0	24	NA	<0.10	<1.0	NA	NA
MW-21	28-Jun-06	2.9	<0.5	<0.5	<2.0	17	NA	<0.10	<2.5	NA	NA
MW-21	2-Jan-07	<0.5	<0.5	<0.5	<2.0	29	NA	<0.10	<1.0	NA	NA
MW-21	3-Jul-07	<0.5	<0.5	<0.5	<2.0	39*	NA	<0.10	<2.0	NA	NA
MW-21	18-Dec-07*	<0.5	<0.5	<0.5	<2.0	79	NA	<0.10	<2.0	NA	NA
MW-21	19-Dec-08	<1.0	<1.0	<1.0	<1.5	100	<10	0.11	<1.0	<5.0	NA
MW-21	18-Feb-10	<1.0	<1.0	<1.0	<2.0	85	<2.0	0.11	<1.0	<5.0	5,220
MW-21	13-May-10	<1.0	<1.0	<1.0	<2.0	82	<2.0	0.10	<1.0	<5.0	5,840
MW-21	20-Aug-10	<1.0	<1.0	<1.0	<2.0	120	<2.0	0.12	<1.0	<5.0	5,520
MW-21	17-Nov-10	<1.0	<1.0	<1.0	<1.5	83	<2.0	0.12	<1.0	<5.0	6,270

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

Well ID	Date Sampled	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	Naphthalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
MW-21	18-May-11	<5.0	<5.0	<5.0	<1.5	160	<10	NA	NA	NA	5,500

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
- µg/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 2A
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 (CaCO ₃)	TDS
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmhos/cm	mg/L	mg/L
Analytical Method		6010B	6010B	6010B	6010B	300.0	300.0	300.0	300.0	120.1	6010B	SM 2540C
NM WQCC Standard		NE	NE	NE	NE	NE	250	1.6	600	NE	NE	1,000
TW-1	19-Aug-09	500	37	2.8	300	0.12	18	0.82	1,700	2,900	1,400	2,530
TW-2	19-Aug-09	470	46	3.7	660	0.27	24	1.0	2,600	4,100	1,400	4,020
TW-3	19-Aug-09	500	45	2.7	710	0.28	26	0.80	2,600	4,200	1,400	4,170
TW-4	19-Aug-09	470	54	4.2	1,600	0.79	120	0.78	4,100	6,500	1,400	6,530
TW-5	19-Aug-09	510	36	3.1	400	0.23	20	0.86	2,000	3,300	1,400	3,180
TW-6	19-Aug-09	480	47	3.4	720	0.28	28	1.1	2,700	4,200	1,400	4,020
TW-7	19-Aug-09	480	46	2.3	750	0.28	24	0.78	2,700	4,200	1,400	3,930
TW-7	18-May-11	NA	NA	NA	NA	NA	28	NA	2,800	NA	NA	4,330
TW-8	20-Aug-09	450	57	3.6	910	1.3	190	0.67	2,600	4,700	1,400	4,490
TW-8	18-May-11	NA	NA	NA	NA	NA	160	NA	2,400	NA	NA	4,140
TW-9	20-Aug-09	250	21	2.4	410	1.2	170	0.87	530	2,600	710	2,070
TW-10	20-Aug-09	420	36	3.6	640	1.1	160	0.72	940	3,700	1,200	3,250
TW-11	20-Aug-09	470	53	3.6	1,500	0.46	70	0.85	4,000	6,100	1,400	6,290
TW-12	20-Aug-09	470	56	2.5	500	0.28	27	0.85	2,100	3,500	1,400	3,490
TW-15	20-Aug-09	460	47	2.6	1,200	0.99	140	0.74	3,100	5,300	1,300	5,240

TABLE 2A
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 (CaCO ₃)	TDS
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmhos/cm	mg/L	mg/L
Analytical Method		6010B	6010B	6010B	6010B	300.0	300.0	300.0	300.0	120.1	6010B	SM 2540C
NM WQCC Standard		NE	NE	NE	NE	NE	250	1.6	600	NE	NE	1,000

TABLE 2A
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 (CaCO ₃)	TDS
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmhos/cm	mg/L	mg/L
Analytical Method		6010B	6010B	6010B	6010B	300.0	300.0	300.0	300.0	120.1	6010B	SM 2540C
NM WQCC Standard		NE	NE	NE	NE	NE	250	1.6	600	NE	NE	1,000
TW-16	20-Aug-09	360	32	8.5	1,100	1.1	150	0.75	2,600	4,800	1,000	4,240
TW-17	21-Aug-09	350	43	4.2	1,200	1.2	170	0.80	3,100	4,700	1,100	4,640
TW-18	21-Aug-09	500	54	3.6	830	0.43	52	0.77	2,800	4,300	1,500	4,440
TW-18	16-Nov-10	490	52	4.6	910	0.28	54	1	3,700	5,000	1,400	4,790
TW-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-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-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-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-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

TABLE 2A
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 (CaCO ₃)	TDS
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmhos/cm	mg/L	mg/L
Analytical Method		6010B	6010B	6010B	6010B	300.0	300.0	300.0	300.0	120.1	6010B	SM 2540C
NM WQCC Standard		NE	NE	NE	NE	NE	250	1.6	600	NE	NE	1,000
TW-39	21-Aug-09	600	54	7.1	1,100	2.3	1,300	0.44	990	5,200	1,700	4,460
TW-39	16-Nov-10	370	43	4.9	660	0.47	540	0.42	1,000	4,100	1,100	3,070
TW-39	18-May-11	NA	NA	NA	NA	NA	550	NA	1,600	NA	NA	3,980
TW-41	24-Aug-19	330	57	6.5	1,000	1.7	970	<0.50	500	4,600	1,100	3,510
TW-41	16-Nov-10	300	58	5.8	910	1.0	1,100	0.23	610	5,200	980	3,670
TW-41	18-May-11	NA	NA	NA	NA	NA	910	NA	980	NA	NA	3,940
TW-42	24-Aug-09	250	75	6.3	1,200	3.8	690	0.43	1,400	5,000	940	4,260
TW-42	16-Nov-10	370	110	6.8	1,200	0.86	840	0.47	2,300	5,900	1,400	5,040
TW-43	24-Aug-09	570	55	5.0	930	0.6	140	0.74	2,500	4,500	1,600	4,610
TW-43	16-Nov-10	540	53	4.8	820	0.44	150	0.98	2,800	4,800	1,600	4,450
TW-43	18-May-11	NA	NA	NA	NA	NA	95	NA	2,700	NA	NA	4,720
TW-44	24-Aug-09	610	56	8.1	1,100	3.7	81	0.38	2,800	5,100	1,800	5,520
TW-45	17-Nov-10	550	53	3.9	860	0.47	320	0.78	2,600	5,000	1,600	4,530
TW-45	18-May-11	NA	NA	NA	NA	NA	280	NA	2,600	NA	NA	4,700
TW-46	18-May-11	NA	NA	NA	NA	NA	400	NA	1,400	NA	NA	3,640
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-49	17-Nov-10	630	92	14.0	1,700	2.1	3,400	0.51	7,000	8,000	1,900	7,470
TW-50	18-May-11	NA	NA	NA	NA	NA	1100	NA	970	NA	NA	4,150

TABLE 2A
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 (CaCO ₃)	TDS
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmhos/cm	mg/L	mg/L
Analytical Method		6010B	6010B	6010B	6010B	300.0	300.0	300.0	300.0	120.1	6010B	SM 2540C
NM WQCC Standard		NE	NE	NE	NE	NE	250	1.6	600	NE	NE	1,000
MW-5	17-Nov-10	150	29	6.1	1,200	0.77	310	<2.0	3,000	5,400	500	4,630

TABLE 2A
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 (CaCO ₃)	TDS
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmhos/cm	mg/L	mg/L
Analytical Method		6010B	6010B	6010B	6010B	300.0	300.0	300.0	300.0	120.1	6010B	SM 2540C
NM WQCC Standard		NE	NE	NE	NE	NE	250	1.6	600	NE	NE	1,000
MW-20	17-Nov-10	410	47	4.1	840	0.72	430	<0.50	2,000	4,700	1,200	3,950
MW-20	18-May-11	NA	NA	NA	NA	NA	380	NA	1,900	NA	NA	4,260
MW-21	17-Nov-10	460	64	7.4	1,400	0.87	820	0.64	3,500	6,700	1,400	6,270
MW-21	18-May-11	NA	NA	NA	NA	NA	750	NA	2,700	NA	NA	5,500

Notes:

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

TABLE 3
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)
Phase 1 Wells					
MPE-1	03-Mar-10	TBD		23.63	
MPE-1	10-May-10	TBD		23.46	
MPE-1	17-Aug-10	TBD		23.65	
MPE-1	11-Nov-10	TBD		23.82	
MPE-1	25-Feb-11	TBD		23.63	
MPE-1	20-May-11	TBD		23.63	
MPE-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-3	03-Mar-10	TBD		20.79	
MPE-3	10-May-10	TBD		20.63	
MPE-3	17-Aug-10	TBD		20.83	
MPE-3	11-Nov-10	TBD		21.01	
MPE-3	25-Feb-11	TBD		20.89	
MPE-3	20-May-11	TBD		20.81	
MPE-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-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-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	

TABLE 3
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)
MPE-6	01-Mar-11	TBD		19.69	
MPE-6	20-May-11	TBD		19.64	
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-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-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-10	03-Mar-10	TBD		23.28	
MPE-10	10-May-10	TBD		23.10	
MPE-10	17-Aug-10	TBD		23.34	
MPE-10	11-Nov-10	TBD		23.46	
MPE-10	01-Mar-11	TBD		23.38	
MPE-10	20-May-11	TBD		23.31	
MPE-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-12	03-Mar-10	TBD		22.34	
MPE-12	10-May-10	TBD		22.20	

TABLE 3
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)
MPE-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-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	22.9	22.96	0.06
MPE-13	01-Mar-11	TBD		22.82	
MPE-13	20-May-11	TBD		22.73	
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-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-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-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	

TABLE 3
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)
MPE-19	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	
Phase 2 Wells					
MPE-20	03-Mar-10	TBD		18.72	
MPE-20	10-May-10	TBD		18.58	
MPE-20	17-Aug-10	TBD		18.75	
MPE-20	11-Nov-10	TBD		18.96	
MPE-20	01-Mar-11	TBD		18.87	
MPE-20	20-May-11	TBD		18.79	
MPE-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-22	03-Mar-10	TBD	20.73	20.81	0.08
MPE-22	18-May-10	TBD		NM	
MPE-22	09-Jun-10	TBD	20.4	20.90	0.50
MPE-22	16-Jun-10	TBD		20.53	
MPE-22	17-Aug-10	TBD	20.71	20.88	0.17
MPE-22	11-Nov-10	TBD	20.94	20.95	0.01
MPE-22	01-Mar-11	TBD		20.84	
MPE-22	20-May-11	TBD		20.73	
MPE-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-24	03-Mar-10	TBD		22.69	

TABLE 3
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)
MPE-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-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-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-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-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-29	03-Mar-10	TBD		20.54	
MPE-29	10-May-10	TBD		20.39	
MPE-29	17-Aug-10	TBD		20.73	
MPE-29	11-Nov-10	TBD		21.72	

TABLE 3
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

<i>Well ID</i>	<i>Date</i>	<i>T.O.C. (ft amsl)</i>	<i>Depth to Product (ft)</i>	<i>Depth to Water (ft)</i>	<i>NAPL Thickness (ft)</i>
MPE-29	03-Mar-11	TBD		21.45	
MPE-29	19-May-11	TBD		20.49	
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-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-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-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-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	

TABLE 3
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)
MPE-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-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-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	
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-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-41	18-Jun-10	TBD		18.14	

TABLE 3
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)
MPE-41	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	
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		19.3	
MPE-42	19-May-11	TBD		19.11	
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		20.1	
MPE-43	03-Mar-11	TBD	NM-Attached to RSI Unit		
MPE-43	19-May-11	TBD		19.95	
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	20.1	0.01
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-46	18-Jun-10	TBD		21.16	
MPE-46	17-Aug-10	TBD	NM-Attached to RSI Unit		
MPE-46	12-Nov-10	TBD		21.46	
MPE-46	03-Mar-11	TBD	NM-Attached to RSI Unit		
MPE-46	19-May-11	TBD		21.28	
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	20.8	21.29	0.49
MPE-47	19-May-11	TBD	20.73	20.75	0.02

TABLE 3
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1, 2, and 3 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

<i>Well ID</i>	<i>Date</i>	<i>T.O.C. (ft amsl)</i>	<i>Depth to Product (ft)</i>	<i>Depth to Water (ft)</i>	<i>NAPL Thickness (ft)</i>
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-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-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-51	18-Jun-10	TBD		20.70	
MPE-51	17-Aug-10	TBD		20.68	
MPE-51	12-Nov-10	TBD		20.99	
MPE-51	03-Mar-11	TBD		21.04	
MPE-51	25-May-11	TBD		20.80	
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-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-54	18-Jun-10	TBD		18.85	
MPE-54	17-Aug-10	TBD		19.02	
MPE-54	12-Nov-10	TBD		19.19	

TABLE 3
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

<i>Well ID</i>	<i>Date</i>	<i>T.O.C. (ft amsl)</i>	<i>Depth to Product (ft)</i>	<i>Depth to Water (ft)</i>	<i>NAPL Thickness (ft)</i>
MPE-54	03-Mar-11	TBD		19.15	
MPE-54	25-May-11	TBD		19.23	
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-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-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-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	

TABLE 4
SUMMARY OF AIR LABORATORY ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

<i>Sample ID</i>	<i>Sample Date</i>	<i>Lab Analytical Method</i>	<i>Benzene (ppmv)</i>	<i>Toluene (ppmv)</i>	<i>Ethyl-benzene (ppmv)</i>	<i>Xylene (ppmv)</i>	<i>MTBE (ppmv)</i>	<i>TPH GRO (ppmv)</i>
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 Cattox (%) Mar 2010			99.999	99.999	99.998	99.997	99.995	100.000
Percent Contaminant Reduction by Cattox (%) 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-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						
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

TABLE 4
SUMMARY OF AIR LABORATORY ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

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

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	MTBE ppmv = µg/L x 0.2549
Toluene ppmv = µg/L x 0.2434	GRO ppmv = µg/L x 0.24 **GRO is an estimation
Ethylbenzene ppmv = µg/L x 0.2112	
Xylenes ppmv = µg/L x 0.2112	
- * The June 2011 pre-engine and post -cat samples were inadvertently switched.



AERIAL SOURCE: PICTOMETRY ONLINE FEBRUARY 2009

FIGURE 1

GENERAL SITE PLAN

THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO



Animas Environmental Services, LLC

DRAWN BY: N. Willis	DATE DRAWN: February 2, 2009
REVISIONS BY: C. Lameman	DATE REVISED: August 10, 2011
CHECKED BY: D. Watson	DATE CHECKED: June 15, 2011
APPROVED BY: E. McNally	DATE APPROVED: August 10, 2011

LEGEND

✱ MONITOR WELL LOCATIONS

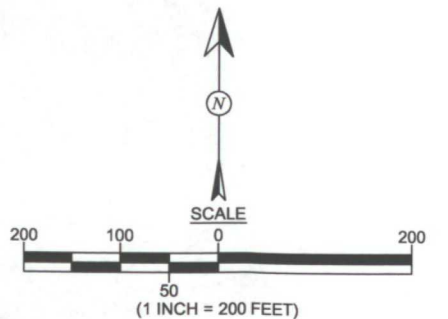
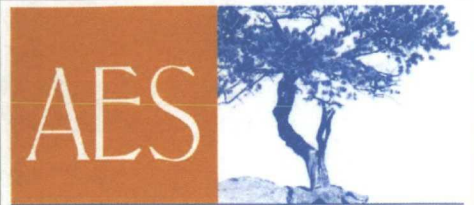


FIGURE 2

GROUNDWATER ELEVATION CONTOURS MAY 2011

THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO



Animas Environmental Services, LLC

DRAWN BY: N. Willis	DATE DRAWN: February 2, 2009
REVISIONS BY: C. Lameman	DATE REVISED: May 31, 2011
CHECKED BY: D. Watson	DATE CHECKED: June 15, 2011
APPROVED BY: E. McNally	DATE APPROVED: August 10, 2011

LEGEND

MONITOR WELL LOCATIONS

5440.26 GROUNDWATER ELEVATION IN FEET (AMSL)

5434 GROUNDWATER ELEVATION CONTOUR IN FEET (AMSL)

NOTE: GROUNDWATER MEASUREMENTS WERE MADE ON MAY 17 AND 18, 2011. LOCATIONS OF TW-45 THROUGH TW-50 ARE APPROXIMATE. TW-19 WAS NOT INCLUDED IN GROUNDWATER CONTOUR.

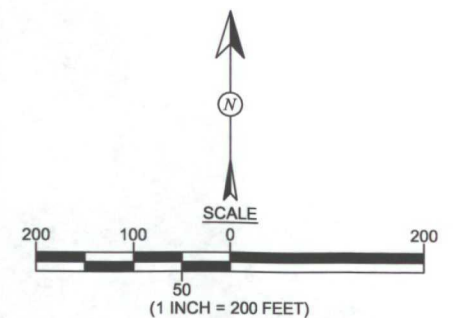
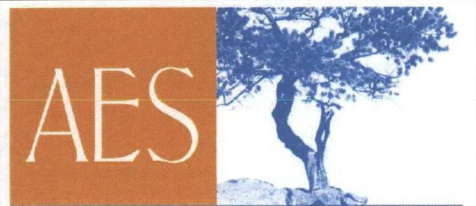


FIGURE 3

**FREE PRODUCT THICKNESS
CONTOURS
MAY 2011**

THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO



Animas Environmental Services, LLC

DRAWN BY: N. Willis	DATE DRAWN: February 2, 2009
REVISIONS BY: C. Lameman	DATE REVISED: June 8, 2011
CHECKED BY: D. Watson	DATE CHECKED: June 15, 2011
APPROVED BY: E. McNally	DATE APPROVED: August 10, 2011

LEGEND

MONITOR WELL LOCATIONS

MPE REMEDIATION WELL

0.90 FREE PRODUCT THICKNESS IN FEET

0.25 FREE PRODUCT THICKNESS
CONTOUR IN FEET

NOTE: ALL MEASUREMENTS WERE MADE ON
MAY 17 AND 18, 2011. LOCATIONS OF TW-45
THROUGH TW-50 ARE APPROXIMATE. TW-19
AND TW-20 WERE ATTACHED TO RSI UNIT.

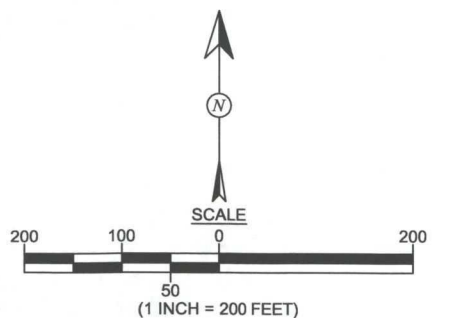
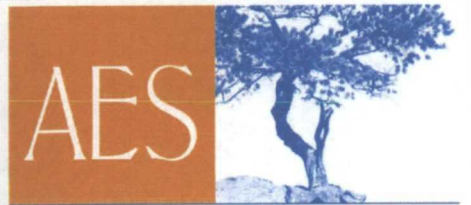


FIGURE 4

**DISSOLVED BENZENE
CONCENTRATION CONTOURS
MAY 2011**

THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO



Animas Environmental Services, LLC

DRAWN BY: N. Willis	DATE DRAWN: February 2, 2009
REVISIONS BY: C. Lameman	DATE REVISED: June 16, 2011
CHECKED BY: D. Watson	DATE CHECKED: June 16, 2011
APPROVED BY: E. McNally	DATE APPROVED: August 10, 2011

LEGEND

- MONITOR WELL LOCATIONS
- DISSOLVED BENZENE CONCENTRATIONS
- DISSOLVED BENZENE CONCENTRATION CONTOURS

NOTE: ALL SAMPLES WERE COLLECTED ON MAY 17 AND 18, 2011. ALL SAMPLES ANALYZED PER EPA METHOD 8260B. ALL ANALYTICAL RESULTS REPORTED AS $\mu\text{g/L}$ (PPB). LOCATIONS OF TW-45 THROUGH TW-50 ARE APPROXIMATE.

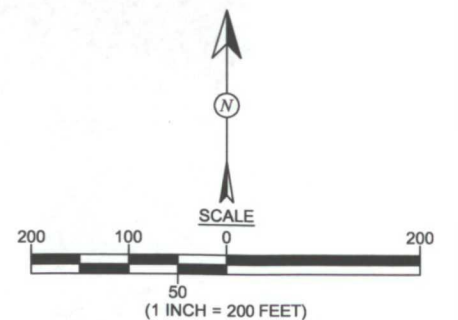


FIGURE 5

**DISSOLVED MTBE
CONCENTRATION CONTOURS
MAY 2011**

THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO



Animas Environmental Services, LLC

DRAWN BY:
N. Willis

DATE DRAWN:
February 2, 2009

REVISIONS BY:
C. Lameman

DATE REVISED:
June 16, 2011

CHECKED BY:
D. Watson

DATE CHECKED:
June 16, 2011

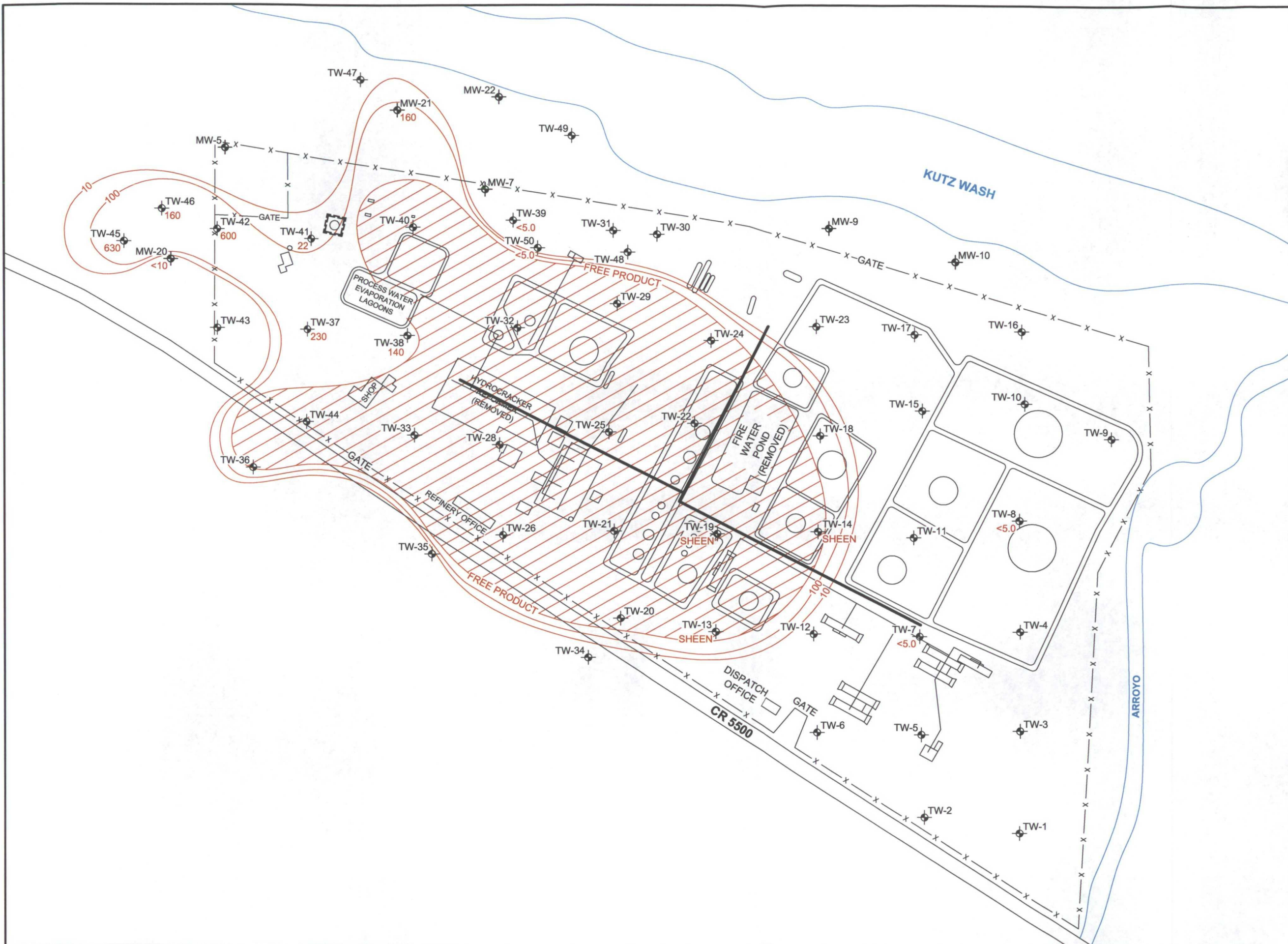
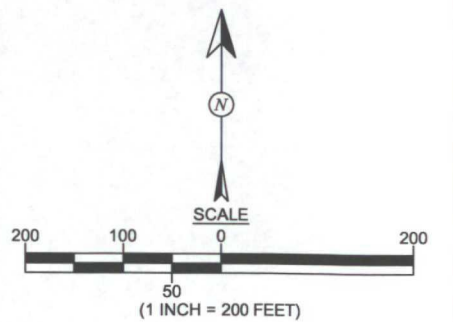
APPROVED BY:
E. McNally

DATE APPROVED:
August 10, 2011

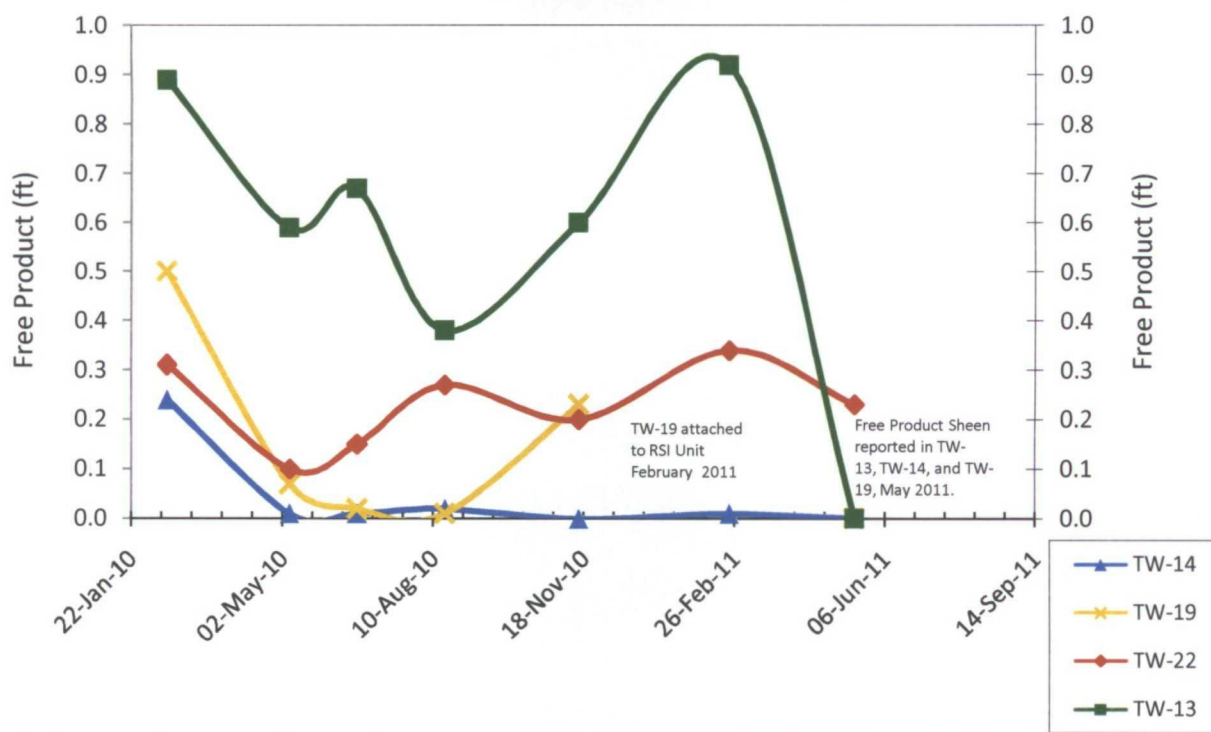
LEGEND

- MONITOR WELL LOCATIONS
- 230 DISSOLVED MTBE CONCENTRATIONS
- 10 DISSOLVED MTBE CONCENTRATION CONTOURS

NOTE: ALL SAMPLED WERE COLLECTED ON MAY 17 AND 18, 2011. ALL SAMPLES ANALYZED PER EPA METHOD 8260B. ALL ANALYTICAL RESULTS REPORTED AS $\mu\text{g/L}$ (PPB). LOCATIONS OF TW-45 THROUGH TW-50 ARE APPROXIMATE.



Graph 1. Selected Wells with Free Product Over Time,
Former Thriftway Refinery #810, Bloomfield, NM





COVER LETTER

Thursday, June 02, 2011

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

TEL: (505) 486-1776

FAX (505) 324-2022

RE: Thriftway #810 Refinery

Order No.: 1105814

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory, Inc. received 13 sample(s) on 5/20/2011 for the analyses presented in the following report.

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

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

Sincerely,



Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682
ORELAP Lab # NM100001
Texas Lab# T104704424-08-TX



Hall Environmental Analysis Laboratory, Inc.

Date: 02-Jun-11

CLIENT: Animas Environmental Services
Lab Order: 1105814
Project: Thriftway #810 Refinery
Lab ID: 1105814-01

Client Sample ID: TW-7
Collection Date: 5/18/2011 1:05:00 PM
Date Received: 5/20/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	28	10		mg/L	20	5/20/2011 1:32:23 PM
Sulfate	2800	50		mg/L	100	5/23/2011 8:41:28 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: MMS
Benzene	ND	5.0		µg/L	5	5/25/2011 12:50:38 AM
Toluene	23	5.0		µg/L	5	5/25/2011 12:50:38 AM
Ethylbenzene	310	5.0		µg/L	5	5/25/2011 12:50:38 AM
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	5	5/25/2011 12:50:38 AM
Naphthalene	49	10		µg/L	5	5/25/2011 12:50:38 AM
1-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 12:50:38 AM
2-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 12:50:38 AM
Xylenes, Total	37	10		µg/L	5	5/25/2011 12:50:38 AM
Surr: 1,2-Dichloroethane-d4	103	65.8-138		%REC	5	5/25/2011 12:50:38 AM
Surr: 4-Bromofluorobenzene	93.2	72.7-128		%REC	5	5/25/2011 12:50:38 AM
Surr: Dibromofluoromethane	103	69-135		%REC	5	5/25/2011 12:50:38 AM
Surr: Toluene-d8	100	86.1-134		%REC	5	5/25/2011 12:50:38 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	4330	40.0		mg/L	1	5/25/2011 6:30:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Jun-11

CLIENT: Animas Environmental Services
Lab Order: 1105814
Project: Thriftway #810 Refinery
Lab ID: 1105814-02

Client Sample ID: TW-8
Collection Date: 5/18/2011 1:40:00 PM
Date Received: 5/20/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	160	10		mg/L	20	5/20/2011 1:54:51 PM
Sulfate	2400	50		mg/L	100	5/23/2011 8:52:42 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: MMS
Benzene	32	5.0		µg/L	5	5/25/2011 4:08:16 AM
Toluene	ND	5.0		µg/L	5	5/25/2011 4:08:16 AM
Ethylbenzene	150	5.0		µg/L	5	5/25/2011 4:08:16 AM
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	5	5/25/2011 4:08:16 AM
Naphthalene	ND	10		µg/L	5	5/25/2011 4:08:16 AM
1-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 4:08:16 AM
2-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 4:08:16 AM
Xylenes, Total	130	10		µg/L	5	5/25/2011 4:08:16 AM
Surr: 1,2-Dichloroethane-d4	100	65.8-138		%REC	5	5/25/2011 4:08:16 AM
Surr: 4-Bromofluorobenzene	92.1	72.7-128		%REC	5	5/25/2011 4:08:16 AM
Surr: Dibromofluoromethane	101	69-135		%REC	5	5/25/2011 4:08:16 AM
Surr: Toluene-d8	101	86.1-134		%REC	5	5/25/2011 4:08:16 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	4140	40.0		mg/L	1	5/25/2011 6:30:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Jun-11

CLIENT: Animas Environmental Services
Lab Order: 1105814
Project: Thriftway #810 Refinery
Lab ID: 1105814-03

Client Sample ID: TW-37
Collection Date: 5/18/2011 3:00:00 PM
Date Received: 5/20/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	260	10		mg/L	20	5/20/2011 6:24:23 PM
Sulfate	1700	50		mg/L	100	5/23/2011 9:03:55 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: MMS
Benzene	420	5.0		µg/L	5	5/25/2011 4:36:15 AM
Toluene	ND	5.0		µg/L	5	5/25/2011 4:36:15 AM
Ethylbenzene	21	5.0		µg/L	5	5/25/2011 4:36:15 AM
Methyl tert-butyl ether (MTBE)	230	5.0		µg/L	5	5/25/2011 4:36:15 AM
Naphthalene	ND	10		µg/L	5	5/25/2011 4:36:15 AM
1-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 4:36:15 AM
2-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 4:36:15 AM
Xylenes, Total	ND	10		µg/L	5	5/25/2011 4:36:15 AM
Surr: 1,2-Dichloroethane-d4	103	65.8-138		%REC	5	5/25/2011 4:36:15 AM
Surr: 4-Bromofluorobenzene	92.5	72.7-128		%REC	5	5/25/2011 4:36:15 AM
Surr: Dibromofluoromethane	103	69-135		%REC	5	5/25/2011 4:36:15 AM
Surr: Toluene-d8	101	86.1-134		%REC	5	5/25/2011 4:36:15 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	3680	40.0		mg/L	1	5/25/2011 6:30:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Jun-11

CLIENT: Animas Environmental Services

Client Sample ID: TW-38

Lab Order: 1105814

Collection Date: 5/18/2011 2:42:00 PM

Project: Thriftway #810 Refinery

Date Received: 5/20/2011

Lab ID: 1105814-04

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	190	10		mg/L	20	5/20/2011 2:17:19 PM
Sulfate	2200	50		mg/L	100	5/23/2011 9:15:10 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: MMS
Benzene	37	5.0		µg/L	5	5/25/2011 5:04:20 AM
Toluene	ND	5.0		µg/L	5	5/25/2011 5:04:20 AM
Ethylbenzene	6.1	5.0		µg/L	5	5/25/2011 5:04:20 AM
Methyl tert-butyl ether (MTBE)	140	5.0		µg/L	5	5/25/2011 5:04:20 AM
Naphthalene	ND	10		µg/L	5	5/25/2011 5:04:20 AM
1-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 5:04:20 AM
2-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 5:04:20 AM
Xylenes, Total	22	10		µg/L	5	5/25/2011 5:04:20 AM
Surr: 1,2-Dichloroethane-d4	101	65.8-138		%REC	5	5/25/2011 5:04:20 AM
Surr: 4-Bromofluorobenzene	90.7	72.7-128		%REC	5	5/25/2011 5:04:20 AM
Surr: Dibromofluoromethane	99.5	69-135		%REC	5	5/25/2011 5:04:20 AM
Surr: Toluene-d8	101	86.1-134		%REC	5	5/25/2011 5:04:20 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	4010	40.0		mg/L	1	5/25/2011 6:30:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Jun-11

CLIENT: Animas Environmental Services
Lab Order: 1105814
Project: Thriftway #810 Refinery
Lab ID: 1105814-05

Client Sample ID: TW-39
Collection Date: 5/19/2011 6:48:00 AM
Date Received: 5/20/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	550	25		mg/L	50	5/23/2011 9:26:24 PM
Sulfate	1600	25		mg/L	50	5/23/2011 9:26:24 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: MMS
Benzene	41	5.0		µg/L	5	5/25/2011 5:32:19 AM
Toluene	ND	5.0		µg/L	5	5/25/2011 5:32:19 AM
Ethylbenzene	65	5.0		µg/L	5	5/25/2011 5:32:19 AM
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	5	5/25/2011 5:32:19 AM
Naphthalene	ND	10		µg/L	5	5/25/2011 5:32:19 AM
1-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 5:32:19 AM
2-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 5:32:19 AM
Xylenes, Total	ND	10		µg/L	5	5/25/2011 5:32:19 AM
Surr: 1,2-Dichloroethane-d4	102	65.8-138		%REC	5	5/25/2011 5:32:19 AM
Surr: 4-Bromofluorobenzene	87.2	72.7-128		%REC	5	5/25/2011 5:32:19 AM
Surr: Dibromofluoromethane	101	69-135		%REC	5	5/25/2011 5:32:19 AM
Surr: Toluene-d8	97.3	86.1-134		%REC	5	5/25/2011 5:32:19 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	3980	100		mg/L	1	5/25/2011 6:30:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Jun-11

CLIENT: Animas Environmental Services
Lab Order: 1105814
Project: Thriftway #810 Refinery
Lab ID: 1105814-06

Client Sample ID: TW-41
Collection Date: 5/18/2011 4:23:00 PM
Date Received: 5/20/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	910	50		mg/L	100	5/23/2011 9:37:37 PM
Sulfate	980	10		mg/L	20	5/20/2011 5:17:00 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: MMS
Benzene	110	5.0		µg/L	5	5/24/2011 11:53:57 PM
Toluene	8.5	5.0		µg/L	5	5/24/2011 11:53:57 PM
Ethylbenzene	500	5.0		µg/L	5	5/24/2011 11:53:57 PM
Methyl tert-butyl ether (MTBE)	22	5.0		µg/L	5	5/24/2011 11:53:57 PM
Naphthalene	70	10		µg/L	5	5/24/2011 11:53:57 PM
1-Methylnaphthalene	35	20		µg/L	5	5/24/2011 11:53:57 PM
2-Methylnaphthalene	ND	20		µg/L	5	5/24/2011 11:53:57 PM
Xylenes, Total	2700	100		µg/L	50	5/24/2011 11:25:38 PM
Surr: 1,2-Dichloroethane-d4	105	65.8-138		%REC	5	5/24/2011 11:53:57 PM
Surr: 4-Bromofluorobenzene	90.3	72.7-128		%REC	5	5/24/2011 11:53:57 PM
Surr: Dibromofluoromethane	106	69-135		%REC	5	5/24/2011 11:53:57 PM
Surr: Toluene-d8	103	86.1-134		%REC	5	5/24/2011 11:53:57 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	3940	100		mg/L	1	5/25/2011 8:30:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Jun-11

CLIENT: Animas Environmental Services
Lab Order: 1105814
Project: Thriftway #810 Refinery
Lab ID: 1105814-07

Client Sample ID: TW-43
Collection Date: 5/18/2011 3:13:00 PM
Date Received: 5/20/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	95	10		mg/L	20	5/20/2011 8:50:25 PM
Sulfate	2700	50		mg/L	100	5/23/2011 10:11:18 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: MMS
Benzene	ND	5.0		µg/L	5	5/25/2011 2:15:15 AM
Toluene	ND	5.0		µg/L	5	5/25/2011 2:15:15 AM
Ethylbenzene	ND	5.0		µg/L	5	5/25/2011 2:15:15 AM
Methyl tert-butyl ether (MTBE)	600	5.0		µg/L	5	5/25/2011 2:15:15 AM
Naphthalene	ND	10		µg/L	5	5/25/2011 2:15:15 AM
1-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 2:15:15 AM
2-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 2:15:15 AM
Xylenes, Total	ND	10		µg/L	5	5/25/2011 2:15:15 AM
Surr: 1,2-Dichloroethane-d4	100	65.8-138		%REC	5	5/25/2011 2:15:15 AM
Surr: 4-Bromofluorobenzene	92.2	72.7-128		%REC	5	5/25/2011 2:15:15 AM
Surr: Dibromofluoromethane	99.5	69-135		%REC	5	5/25/2011 2:15:15 AM
Surr: Toluene-d8	99.6	86.1-134		%REC	5	5/25/2011 2:15:15 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	4720	100		mg/L	1	5/25/2011 6:30:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Jun-11

CLIENT: Animas Environmental Services
Lab Order: 1105814
Project: Thriftway #810 Refinery
Lab ID: 1105814-08

Client Sample ID: TW-45
Collection Date: 5/18/2011 9:50:00 AM
Date Received: 5/20/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	280	10		mg/L	20	5/20/2011 6:01:56 PM
Sulfate	2600	50		mg/L	100	5/23/2011 10:22:32 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: MMS
Benzene	ND	5.0		µg/L	5	5/25/2011 6:00:29 AM
Toluene	ND	5.0		µg/L	5	5/25/2011 6:00:29 AM
Ethylbenzene	ND	5.0		µg/L	5	5/25/2011 6:00:29 AM
Methyl tert-butyl ether (MTBE)	630	5.0		µg/L	5	5/25/2011 6:00:29 AM
Naphthalene	ND	10		µg/L	5	5/25/2011 6:00:29 AM
1-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 6:00:29 AM
2-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 6:00:29 AM
Xylenes, Total	ND	10		µg/L	5	5/25/2011 6:00:29 AM
Surr: 1,2-Dichloroethane-d4	99.5	65.8-138		%REC	5	5/25/2011 6:00:29 AM
Surr: 4-Bromofluorobenzene	92.0	72.7-128		%REC	5	5/25/2011 6:00:29 AM
Surr: Dibromofluoromethane	101	69-135		%REC	5	5/25/2011 6:00:29 AM
Surr: Toluene-d8	101	86.1-134		%REC	5	5/25/2011 6:00:29 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	4700	100		mg/L	1	5/25/2011 6:30:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Jun-11

CLIENT: Animas Environmental Services
Lab Order: 1105814
Project: Thriftway #810 Refinery
Lab ID: 1105814-09

Client Sample ID: TW-46
Collection Date: 5/18/2011 10:15:00 AM
Date Received: 5/20/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	400	25		mg/L	50	5/23/2011 10:33:46 PM
Sulfate	1400	25		mg/L	50	5/23/2011 10:33:46 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: MMS
Benzene	ND	5.0		µg/L	5	5/25/2011 6:28:47 AM
Toluene	ND	5.0		µg/L	5	5/25/2011 6:28:47 AM
Ethylbenzene	ND	5.0		µg/L	5	5/25/2011 6:28:47 AM
Methyl tert-butyl ether (MTBE)	160	5.0		µg/L	5	5/25/2011 6:28:47 AM
Naphthalene	ND	10		µg/L	5	5/25/2011 6:28:47 AM
1-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 6:28:47 AM
2-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 6:28:47 AM
Xylenes, Total	ND	10		µg/L	5	5/25/2011 6:28:47 AM
Surr: 1,2-Dichloroethane-d4	100	65.8-138		%REC	5	5/25/2011 6:28:47 AM
Surr: 4-Bromofluorobenzene	93.1	72.7-128		%REC	5	5/25/2011 6:28:47 AM
Surr: Dibromofluoromethane	101	69-135		%REC	5	5/25/2011 6:28:47 AM
Surr: Toluene-d8	102	86.1-134		%REC	5	5/25/2011 6:28:47 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	3640	40.0		mg/L	1	5/25/2011 6:30:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Jun-11

CLIENT: Animas Environmental Services
Lab Order: 1105814
Project: Thriftway #810 Refinery
Lab ID: 1105814-10

Client Sample ID: TW-50
Collection Date: 5/19/2011 7:05:00 AM
Date Received: 5/20/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	1100	50		mg/L	100	5/23/2011 10:56:13 PM
Sulfate	970	25		mg/L	50	5/23/2011 10:44:59 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: MMS
Benzene	13	5.0		µg/L	5	5/25/2011 6:57:12 AM
Toluene	ND	5.0		µg/L	5	5/25/2011 6:57:12 AM
Ethylbenzene	150	5.0		µg/L	5	5/25/2011 6:57:12 AM
Methyl tert-butyl ether (MTBE)	ND	5.0		µg/L	5	5/25/2011 6:57:12 AM
Naphthalene	ND	10		µg/L	5	5/25/2011 6:57:12 AM
1-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 6:57:12 AM
2-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 6:57:12 AM
Xylenes, Total	190	10		µg/L	5	5/25/2011 6:57:12 AM
Surr: 1,2-Dichloroethane-d4	99.4	65.8-138		%REC	5	5/25/2011 6:57:12 AM
Surr: 4-Bromofluorobenzene	89.0	72.7-128		%REC	5	5/25/2011 6:57:12 AM
Surr: Dibromofluoromethane	101	69-135		%REC	5	5/25/2011 6:57:12 AM
Surr: Toluene-d8	102	86.1-134		%REC	5	5/25/2011 6:57:12 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	4150	100		mg/L	1	5/25/2011 6:30:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Jun-11

CLIENT: Animas Environmental Services
Lab Order: 1105814
Project: Thriftway #810 Refinery
Lab ID: 1105814-11

Client Sample ID: MW-20
Collection Date: 5/18/2011 9:31:00 AM
Date Received: 5/20/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	380	10		mg/L	20	5/20/2011 7:54:15 PM
Sulfate	1900	50		mg/L	100	5/23/2011 11:07:27 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: MMS
Benzene	ND	5.0		µg/L	5	5/25/2011 7:25:28 AM
Toluene	ND	5.0		µg/L	5	5/25/2011 7:25:28 AM
Ethylbenzene	ND	5.0		µg/L	5	5/25/2011 7:25:28 AM
Methyl tert-butyl ether (MTBE)	250	5.0		µg/L	5	5/25/2011 7:25:28 AM
Naphthalene	ND	10		µg/L	5	5/25/2011 7:25:28 AM
1-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 7:25:28 AM
2-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 7:25:28 AM
Xylenes, Total	ND	10		µg/L	5	5/25/2011 7:25:28 AM
Surr: 1,2-Dichloroethane-d4	99.0	65.8-138		%REC	5	5/25/2011 7:25:28 AM
Surr: 4-Bromofluorobenzene	91.9	72.7-128		%REC	5	5/25/2011 7:25:28 AM
Surr: Dibromofluoromethane	100	69-135		%REC	5	5/25/2011 7:25:28 AM
Surr: Toluene-d8	104	86.1-134		%REC	5	5/25/2011 7:25:28 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	4260	100		mg/L	1	5/25/2011 6:30:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Jun-11

CLIENT: Animas Environmental Services
Lab Order: 1105814
Project: Thriftway #810 Refinery
Lab ID: 1105814-12

Client Sample ID: MW-21
Collection Date: 5/18/2011 10:40:00 AM
Date Received: 5/20/2011
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	750	50		mg/L	100	5/26/2011 7:55:37 PM
Sulfate	2700	50		mg/L	100	5/26/2011 7:55:37 PM
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: MMS
Benzene	ND	5.0		µg/L	5	5/25/2011 7:53:36 AM
Toluene	ND	5.0		µg/L	5	5/25/2011 7:53:36 AM
Ethylbenzene	ND	5.0		µg/L	5	5/25/2011 7:53:36 AM
Methyl tert-butyl ether (MTBE)	160	5.0		µg/L	5	5/25/2011 7:53:36 AM
Naphthalene	ND	10		µg/L	5	5/25/2011 7:53:36 AM
1-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 7:53:36 AM
2-Methylnaphthalene	ND	20		µg/L	5	5/25/2011 7:53:36 AM
Xylenes, Total	ND	10		µg/L	5	5/25/2011 7:53:36 AM
Surr: 1,2-Dichloroethane-d4	101	65.8-138		%REC	5	5/25/2011 7:53:36 AM
Surr: 4-Bromofluorobenzene	95.2	72.7-128		%REC	5	5/25/2011 7:53:36 AM
Surr: Dibromofluoromethane	101	69-135		%REC	5	5/25/2011 7:53:36 AM
Surr: Toluene-d8	101	86.1-134		%REC	5	5/25/2011 7:53:36 AM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	5500	100		mg/L	1	5/25/2011 6:30:00 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
 E Estimated value
 J Analyte detected below quantitation limits
 NC Non-Chlorinated
 PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
 H Holding times for preparation or analysis exceeded
 MCL Maximum Contaminant Level
 ND Not Detected at the Reporting Limit
 S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Jun-11

CLIENT: Animas Environmental Services
Lab Order: 1105814
Project: Thriftway #810 Refinery
Lab ID: 1105814-13

Client Sample ID: Trip Blank
Collection Date:
Date Received: 5/20/2011
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: MMS
Benzene	ND	1.0		µg/L	1	5/25/2011 3:40:13 AM
Toluene	ND	1.0		µg/L	1	5/25/2011 3:40:13 AM
Ethylbenzene	ND	1.0		µg/L	1	5/25/2011 3:40:13 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	5/25/2011 3:40:13 AM
Naphthalene	ND	2.0		µg/L	1	5/25/2011 3:40:13 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	5/25/2011 3:40:13 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	5/25/2011 3:40:13 AM
Xylenes, Total	ND	2.0		µg/L	1	5/25/2011 3:40:13 AM
Surr: 1,2-Dichloroethane-d4	100	65.8-138		%REC	1	5/25/2011 3:40:13 AM
Surr: 4-Bromofluorobenzene	93.7	72.7-128		%REC	1	5/25/2011 3:40:13 AM
Surr: Dibromofluoromethane	101	69-135		%REC	1	5/25/2011 3:40:13 AM
Surr: Toluene-d8	100	86.1-134		%REC	1	5/25/2011 3:40:13 AM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
 Project: Thriftway #810 Refinery

Work Order: 1105814

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB		MBLK									
Chloride	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		MBLK									
Chloride	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		MBLK									
Chloride	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		MBLK									
Chloride	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		MBLK									
Chloride	ND	mg/L	0.50								
Sulfate	ND	mg/L	0.50								
Sample ID: LCS		LCS									
Chloride	5.017	mg/L	0.50	5	0	100	90	110			
Sulfate	10.13	mg/L	0.50	10	0	101	90	110			
Sample ID: LCS		LCS									
Chloride	5.021	mg/L	0.50	5	0	100	90	110			
Sulfate	10.18	mg/L	0.50	10	0	102	90	110			
Sample ID: LCS		LCS									
Chloride	5.024	mg/L	0.50	5	0	100	90	110			
Sulfate	10.10	mg/L	0.50	10	0	101	90	110			
Sample ID: LCS		LCS									
Chloride	5.019	mg/L	0.50	5	0	100	90	110			
Sulfate	10.07	mg/L	0.50	10	0	101	90	110			
Sample ID: LCS		LCS									
Chloride	4.866	mg/L	0.50	5	0	97.3	90	110			
Sulfate	9.729	mg/L	0.50	10	0	97.3	90	110			

Qualifiers:

E Estimated value
 J Analyte detected below quantitation limits
 ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded
 NC Non-Chlorinated
 R RPD outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services

Project: Thriftway #810 Refinery

Work Order: 1105814

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8260: Volatiles Short List											
Sample ID: 1105814-01a msd	MSD					Batch ID: R45559	Analysis Date: 5/25/2011 1:47:12 AM				
Benzene	110.1	µg/L	5.0	100	4.322	106	82	118	0.236	17.1	
Toluene	123.5	µg/L	5.0	100	23.5	100	81.1	122	1.04	16.1	
Sample ID: 1105814-07a msd	MSD					Batch ID: R45559	Analysis Date: 5/25/2011 3:12:00 AM				
Benzene	105.7	µg/L	5.0	100	0	106	82	118	2.63	17.1	
Toluene	98.88	µg/L	5.0	100	0	98.9	81.1	122	1.06	16.1	
Sample ID: 5ml rb	MBLK					Batch ID: R45559	Analysis Date: 5/24/2011 10:15:45 AM				
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: b7	MBLK					Batch ID: R45559	Analysis Date: 5/24/2011 10:01:19 PM				
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: b6	MBLK					Batch ID: R45593	Analysis Date: 5/25/2011 11:00:49 PM				
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0								
Naphthalene	ND	µg/L	2.0								
1-Methylnaphthalene	ND	µg/L	4.0								
2-Methylnaphthalene	ND	µg/L	4.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100ng lcs-1	LCS					Batch ID: R45559	Analysis Date: 5/24/2011 11:12:13 AM				
Benzene	21.02	µg/L	1.0	20	0	105	85.2	121			
Toluene	20.65	µg/L	1.0	20	0	103	88.3	121			
Sample ID: 100ng lcs-2	LCS					Batch ID: R45559	Analysis Date: 5/24/2011 11:40:22 AM				
Benzene	21.30	µg/L	1.0	20	0	106	85.2	121			
Toluene	20.50	µg/L	1.0	20	0	103	88.3	121			
Sample ID: 100ng lcs	LCS					Batch ID: R45593	Analysis Date: 5/25/2011 11:39:39 AM				
Benzene	20.99	µg/L	1.0	20	0	105	85.2	121			
Toluene	20.38	µg/L	1.0	20	0	102	88.3	121			
Sample ID: 1105814-01a ms	MS					Batch ID: R45559	Analysis Date: 5/25/2011 1:18:59 AM				

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services

Project: Thriftway #810 Refinery

Work Order: 1105814

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	--------	---------	------	----------	-----------	------	----------	------

Method: EPA Method 8260: Volatiles Short List

Sample ID: 1105814-01a ms

MS

Batch ID: R45559 Analysis Date: 5/25/2011 1:18:59 AM

Benzene 109.9 µg/L 5.0 100 4.322 106 82 118

Toluene 124.7 µg/L 5.0 100 23.5 101 81.1 122

Sample ID: 1105814-07a ms

MS

Batch ID: R45559 Analysis Date: 5/25/2011 2:43:34 AM

Benzene 108.6 µg/L 5.0 100 0 109 82 118

Toluene 99.93 µg/L 5.0 100 0 99.9 81.1 122

Method: SM2540C MOD: Total Dissolved Solids

Sample ID: MB-26942

MBLK

Batch ID: 26942 Analysis Date: 5/25/2011 6:30:00 PM

Total Dissolved Solids ND mg/L 20.0

Sample ID: LCS-26942

LCS

Batch ID: 26942 Analysis Date: 5/25/2011 6:30:00 PM

Total Dissolved Solids 1020 mg/L 20.0 1000 0 102 80 120

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL

Date Received:

5/20/2011

Work Order Number 1105814

Received by: LNM

Checklist completed by:

Signature

Date

Sample ID labels checked by:

Initials

Matrix:

Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☒	
Chain of custody present?	Yes ☒	No ☐		
Chain of custody signed when relinquished and received?	Yes ☒	No ☐		
Chain of custody agrees with sample labels?	Yes ☒	No ☐		
Samples in proper container/bottle?	Yes ☒	No ☐		
Sample containers intact?	Yes ☒	No ☐		
Sufficient sample volume for indicated test?	Yes ☒	No ☐		
All samples received within holding time?	Yes ☒	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☒	No ☐	
Water - Preservation labels on bottle and cap match?	Yes ☒	No ☐	N/A ☐	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒	

Number of preserved bottles checked for pH:

<2 >12 unless noted below.

Container/Temp Blank temperature?

1.2°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E Comanche

Farmington NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

TW #B10 Refinery

Project #:

AES 050204

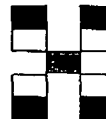
Project Manager:

Ross Kennemer

Sampler: Chad Dawson

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.2



**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.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA) ^{BTEX/MTBE} _{Total Naph.}	8270 (Semi-VOA)	300.6 (Chloride/Sulfate)	2540C (TDS)	Air Bubbles (Y or N)
5/18/11	1305	H ₂ O	TW-7	3-40ML + 500ML	HCl NON	-1										X		X	X	
5/18/11	1340		TW-8			-2										X		X	X	
5/18/11	1500		TW-37			-3										X		X	X	
5/18/11	1442		TW-38			-4										X		X	X	
5/19/11	0648		TW-39			-5										X		X	X	
5/18/11	1623		TW-41			-6										X		X	X	
5/18/11	1513		TW-43			-7										X		X	X	
5/18/11	0950		TW-45			-8										X		X	X	
5/18/11	1015		TW-46			-9										X		X	X	
5/19/11	0705		TW-50			-10										X		X	X	
5/18/11	0931		MW-20			-11										X		X	X	
5/18/11	1040		MW-21			-12										X		X	X	

Date: 5/19/11 Time: 0930 Relinquished by: Chad Dawson

Received by: Debrah Watson Date: 5/19/11 Time: 0930

Date: 5-19-11 Time: 1630 Relinquished by: Debrah Watson

Received by: Debrah Watson Date: 5/20/11 Time: 830

Remarks: Bill to BioTech
per Andy: 8260 BTEX/MTBE /total naph \$70
Discounted price for TDS

Client: Animas Environmental Services

Mailing Address: 624 E. Comanche

Farmington NM 87401

Phone #: 505-564-2281

email or Fax#: 505-324-2022

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Date	Time	Matrix	Sample Request ID
------	------	--------	-------------------

Date _____

Time

Matrix

Sample Request ID

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

TW #810 Refinery

Project #:

AES 050204

Project Manager:

Ross Kennermer

Sampler: C. Dawson

On Ice ☒ Yes ☐ No

Sample Temperature

HEAL No

116581

-13

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Date:	Time:
5/19/11	0930

Relinquished by: 

Date:	Time:
-19-10	1630

Relinquished by:
Deborah Waters

Received by:	Date	Time
Deborah White	5/19/11	0930

Received by: [Signature] Date 5/29/11 Time 830

Remarks: Bill to Bio.Tech
per Andy: 8280 BTEX/MTBE /total naph \$70
Discounted price for TDS.



COVER LETTER

Wednesday, June 08, 2011

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

TEL: (505) 486-1776

FAX (505) 324-2022

RE: TW 810 Refinery

Order No.: 1106136

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory, Inc. received 3 sample(s) on 6/3/2011 for the analyses presented in the following report.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", written over a horizontal line.

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901
AZ license # AZ0682



Hall Environmental Analysis Laboratory, Inc.

Date: 08-Jun-11

Analytical Report

CLIENT: Animas Environmental Services
Lab Order: 1106136
Project: TW 810 Refinery
Lab ID: 1106136-01

Client Sample ID: Pre- Engine
Collection Date: 6/2/2011 11:15:00 AM
Date Received: 6/3/2011
Matrix: AIR

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		µg/L	1	6/6/2011 3:07:51 PM
Surr: BFB	97.8	79.4-132		%REC	1	6/6/2011 3:07:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.25		µg/L	1	6/6/2011 3:07:51 PM
Benzene	ND	0.10		µg/L	1	6/6/2011 3:07:51 PM
Toluene	ND	0.10		µg/L	1	6/6/2011 3:07:51 PM
Ethylbenzene	ND	0.10		µg/L	1	6/6/2011 3:07:51 PM
Xylenes, Total	ND	0.30		µg/L	1	6/6/2011 3:07:51 PM
Surr: 4-Bromofluorobenzene	115	96.8-145		%REC	1	6/6/2011 3:07:51 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Page 1 of 3

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Jun-11

Analytical Report

CLIENT: Animas Environmental Services

Client Sample ID: Pre-Cat

Lab Order: 1106136

Collection Date: 6/2/2011 11:20:00 AM

Project: TW 810 Refinery

Date Received: 6/3/2011

Lab ID: 1106136-02

Matrix: AIR

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	11	5.0		µg/L	1	6/6/2011 1:45:34 PM
Surr. BFB	99.2	79.4-132		%REC	1	6/6/2011 1:45:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.25		µg/L	1	6/6/2011 1:45:34 PM
Benzene	0.94	0.10		µg/L	1	6/6/2011 1:45:34 PM
Toluene	0.29	0.10		µg/L	1	6/6/2011 1:45:34 PM
Ethylbenzene	ND	0.10		µg/L	1	6/6/2011 1:45:34 PM
Xylenes, Total	ND	0.30		µg/L	1	6/6/2011 1:45:34 PM
Surr: 4-Bromofluorobenzene	117	96.8-145		%REC	1	6/6/2011 1:45:34 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Jun-11
Analytical Report

CLIENT: Animas Environmental Services
Lab Order: 1106136
Project: TW 810 Refinery
Lab ID: 1106136-03

Client Sample ID: Post-Cat
Collection Date: 6/2/2011 11:25:00 AM
Date Received: 6/3/2011
Matrix: AIR

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	12	5.0		µg/L	1	6/6/2011 2:40:25 PM
Surr: BFB	99.3	79.4-132		%REC	1	6/6/2011 2:40:25 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.25		µg/L	1	6/6/2011 2:40:25 PM
Benzene	1.4	0.10		µg/L	1	6/6/2011 2:40:25 PM
Toluene	0.49	0.10		µg/L	1	6/6/2011 2:40:25 PM
Ethylbenzene	ND	0.10		µg/L	1	6/6/2011 2:40:25 PM
Xylenes, Total	ND	0.30		µg/L	1	6/6/2011 2:40:25 PM
Surr: 4-Bromofluorobenzene	119	96.8-145		%REC	1	6/6/2011 2:40:25 PM

Qualifiers:

* Value exceeds Maximum Contaminant Level
E Estimated value
J Analyte detected below quantitation limits
NC Non-Chlorinated
PQL Practical Quantitation Limit

B Analyte detected in the associated Method Blank
H Holding times for preparation or analysis exceeded
MCL Maximum Contaminant Level
ND Not Detected at the Reporting Limit
S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
 Project: TW 810 Refinery

Work Order: 1106136

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		MBLK									
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: 2.5UG GRO LCS		LCS									
Gasoline Range Organics (GRO)	25.17	mg/Kg	5.0	25	0	101	88.8	124			
Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		MBLK									
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS		LCS									
Gasoline Range Organics (GRO)	0.5034	mg/L	0.050	0.5	0	101	81.8	120			
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		MBLK									
Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5								
Benzene	ND	µg/L	1.0								
Toluene	ND	µg/L	1.0								
Ethylbenzene	ND	µg/L	1.0								
Xylenes, Total	ND	µg/L	2.0								
Sample ID: 100NG BTEX LCS		LCS									
Methyl tert-butyl ether (MTBE)	22.05	µg/L	2.5	20	0	110	97.6	132			
Benzene	22.75	µg/L	1.0	20	0	114	93.4	120			
Toluene	23.00	µg/L	1.0	20	0	115	96.2	122			
Ethylbenzene	21.81	µg/L	1.0	20	0	109	95	121			
Xylenes, Total	66.76	µg/L	2.0	60	0	111	97.6	122			

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL

Date Received:

6/3/2011

Work Order Number 1106136

Received by: AMG

Sample ID labels checked by:

Initials

Checklist completed by:

Signature

6/3/11
Date

dam

Matrix:

Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ✓	No	Not Present	
Custody seals intact on shipping container/cooler?	Yes ✓	No	Not Present	Not Shipped
Custody seals intact on sample bottles?	Yes	No	N/A	✓
Chain of custody present?	Yes ✓	No		
Chain of custody signed when relinquished and received?	Yes ✓	No		
Chain of custody agrees with sample labels?	Yes ✓	No		
Samples in proper container/bottle?	Yes ✓	No		
Sample containers intact?	Yes ✓	No		
Sufficient sample volume for indicated test?	Yes ✓	No		
All samples received within holding time?	Yes ✓	No		
Water - VOA vials have zero headspace?	No VOA vials submitted ✓	Yes	No	Number of preserved bottles checked for pH:
Water - Preservation labels on bottle and cap match?	Yes	No	N/A ✓	
Water - pH acceptable upon receipt?	Yes	No	N/A ✓	<2 >12 unless noted below.
Container/Temp Blank temperature?		<6° C Acceptable		
COMMENTS:		If given sufficient time to cool.		

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

Corrective Action

Chain-of-Custody Record		Turn-Around Time:	
Client: <u>Animas Environmental Services</u>		☒ Standard ☐ Rush _____	
Mailing Address: <u>624 E Comanche</u>		Project Name: <u>TW 810 Refinery</u>	
<u>Farmington NM 87401</u>		Project #:	
Phone #: <u>505-364-2281</u>		Project Manager:	
email or Fax#: <u>505-324-2022</u>		<u>Ross Kenneker</u>	
QA/QC Package:		Sampler: <u>Chad Dawson</u>	
☒ Standard ☐ Level 4 (Full Validation)		<u>On Ice</u> <u>Yes</u> <u>No</u>	
Accreditation		Sample Temperature: _____	
☐ NELAP ☐ Other _____			
☐ EDD (Type) _____			

☒ **Standard** ☐ **Rush**

Project #:	TW 810 Refinery
------------	-----------------

Project #:

Project Manager:

Sampler: Chad Dawson

Sample Temperature

Container Type and #	Material	Volume	Weight	Notes
1	...	...	...	...
2	...	...	...	...
3	...	...	...	...
4	...	...	...	...
5	...	...	...	...
6	...	...	...	...
7	...	...	...	...
8	...	...	...	...
9	...	...	...	...
10	...	...	...	...
11	...	...	...	...
12	...	...	...	...
13	...	...	...	...
14	...	...	...	...
15	...	...	...	...
16	...	...	...	...
17	...	...	...	...
18	...	...	...	...
19	...	...	...	...
20	...	...	...	...
21	...	...	...	...
22	...	...	...	...
23	...	...	...	...
24	...	...	...	...
25	...	...	...	...
26	...	...	...	...
27	...	...	...	...
28	...	...	...	...
29	...	...	...	...
30	...	...	...	...
31	...	...	...	...
32	...	...	...	...
33	...	...	...	...
34	...	...	...	...
35	...	...	...	...
36	...	...	...	...
37	...	...	...	...
38	...	...	...	...
39	...	...	...	...
40	...	...	...	...
41	...	...	...	...
42	...	...	...	...
43	...	...	...	...
44	...	...	...	...
45	...	...	...	...
46	...	...	...	...
47	...	...	...	...
48	...	...	...	...
49	...	...	...	...
50	...	...	...	...
51	...	...	...	...
52	...	...	...	...
53	...	...	...	...
54	...	...	...	...
55	...	...	...	...
56	...	...	...	...
57	...	...	...	...
58	...	...	...	...
59	...	...	...	...
60	...	...	...	...
61	...	...	...	...
62	...	...	...	...
63	...	...	...	...
64	...	...	...	...
65	...	...	...	...
66	...	...	...	...
67	...	...	...	...
68	...	...	...	...
69	...	...	...	...
70	...	...	...	...
71	...	...	...	...
72	...	...	...	...
73	...	...	...	...
74	...	...	...	...
75	...	...	...	...
76	...	...	...	...
77	...	...	...	...
78	...	...	...	...
79	...	...	...	...
80	...	...	...	...
81	...	...	...	...
82	...	...	...	...
83	...	...	...	...
84	...	...	...	...
85	...	...	...	...
86	...	...	...	...
87	...	...	...	...
88	...	...	...	...
89	...	...	...	...
90	...	...	...	...
91	...	...	...	...
92	...	...	...	...
93	...	...	...	...
94	...	...	...	...
95	...	...	...	...
96	...	...	...	...
97	...	...	...	...
98	...	...	...	...
99	...	...	...	...
100	...	...	...	...

Preservative
Type

HEALING
4/10/13 CD

BTEX + MTBE + ~~3~~ (8021)

BTEX + MTBE + TPH (Gas only)

TPH Method 8015B (Gas/Diesel))

TPH (Method 418.1)

EDB (Method 504.1)

8310 (PNA or PAH)

RCRA 8 Metals

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles (Y or N)

[illegible]

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Date:	Time:	Relinquished by:	Received by:	Date	Time
6-2-11	1242	Chad P.	Carlin	6-2-11	1242
Date:	Time:	Relinquished by:	Received by:	Date	Time
6-2-11	1530	Carlin	Carlin	6/3/11	9:40

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.



March 23, 2011: Facing east, looking at recently planted poplar trees, March 2011. (for reference)



March 23, 2011: Facing east between two rows newly planted poplar trees. (for reference)



June 22, 2011: Facing west, looking at Spring 2011 planted trees showing healthy foliage.



June 22, 2011: Facing northwest, Spring 2011 poplar trees.



June 22, 2011: Facing north, poplar trees planted in May 2010, showing healthy flush.



June 22, 2011: May 2010 planted fourwing saltbrush.



June 22, 2011: Facing northwest, May 2010 planted poplar.



June 22, 2011: Facing west, another view of May 2010 plants.

Preliminary Update - Poplar Phytoremediation Project on an Abandoned Oil Refinery Site in Northwestern New Mexico

Mick O'Neill, Sam Allen, and Robert Heyduck

An abandoned oil refinery that had been in operation from 1973 to 1991 was targeted for a phytoremediation project in spring 2010. The refinery site, situated along the Kutx Wash north of Bloomfield, NM, had been monitored for several years prior to the present study, for various petrochemical contaminants in soil and groundwater, as part of a long-term monitoring and remediation contract managed by BioTech Remediation (Farmington, NM), a subsidiary of Thriftway Oil Company. The site was selected for the current study due to the high quality of existing groundwater monitoring data, proximity to NSMU Agricultural Science Center, and high levels of soil and groundwater contamination with free product floating on the water table above the site selected for remediation and a significant but lower level of groundwater contamination at the remediation site. The water table at the site is 5-6 feet below the soil surface.

The site had undergone preliminary phytoremediation evaluations in 2010 using local and hybrid poplars (*Populus* sp.) as well as the xeric species, four-wing saltbush (*Atriplex canescens*). Whips of poplar and bare-rooted specimens of saltbush were planted during April 2010. A drip irrigation system (Fig. 1) was



oned
ystem
ft well.

established that supplies moderately to severely saline water (TDS 1000 to 2,700 mg/L) from a 1,500-ft well approximately 200 feet from the irrigated area. In March 2011, 240 dormant poplar poles, 15-20 feet in length with a 4- to 6-inch diameter at breast height (DBH), were planted at an adjacent site along a fence bordering the north boundary (Fig. 2). Poles were inserted into groundwater 5 feet apart with 10-ft alleys between rows. Visual observations in April

2011 revealed leaf sprouting, and significant foliar coverage was noted by June 2011 on both the 2010-planted material (Fig. 3) and the 2011-planted poplar poles (Fig. 4). Of the 240 poplar poles planted, only one failed to develop foliage and could be considered dead by the June 2011 evaluation, representing a 99% survival rate.

Analysis of the groundwater into which the poles were planted indicated high levels of total dissolved solids (TDS) greater than 4,500 mg/L and concentrations of methyl tertiary butyl ether



ting 20-ft
hole with
h.

(MTBE)—a common and pervasive residual contaminant— at nearly 55 µg/L. Gasoline Range Organics (GRO C6-C10) were 0.11 mg/L .

Given the level of salt and iron in the irrigation water and the groundwater plus the elevated levels of MTBE and GRO C6-C10, it's a wonder there is a single leaf on the trees and bushes, let alone the excellent foliage produced to date. Initial observations suggest hybrid poplar and four-wing saltbush are capable of substantial initial growth at a petroleum contaminated site with elevated salt loads in the soil and irrigation water. Further work is required to determine the degree of phytoremediation these species are capable of delivering.



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monstrate

Remediation Service Int'l
4835 Colt Unit D
Ventura CA 93003
805.644 8382
805.644 8378 FAX
www.rsi-save.com

528922

Report Generator Version 1.4

Date of Report 7/27/2011
Project Name Thriftway #810
May June 2011 Report
Unit ID 0
Controller S/N: 182
Software version. 844

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

Date Range From 4/1/2011 0.43
Date Range To : 6/23/2011 20.13
Lbs. Removed/Period. 2681.83
Gal Removed/Period 432.67
SCF Processed/Period 1998509

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*(1/10⁹)

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

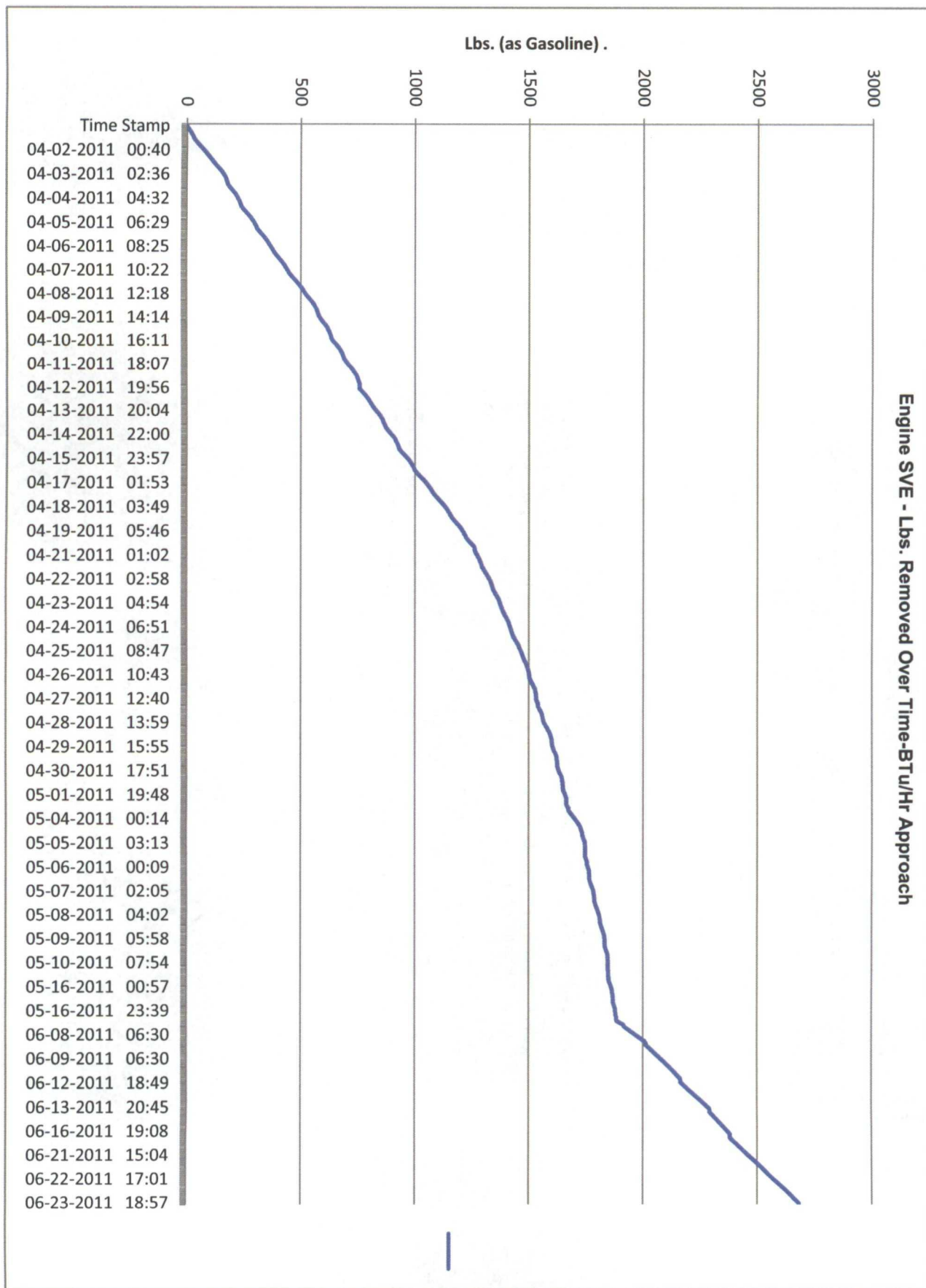
RSIs Innovative Approach to Estimating PPMV

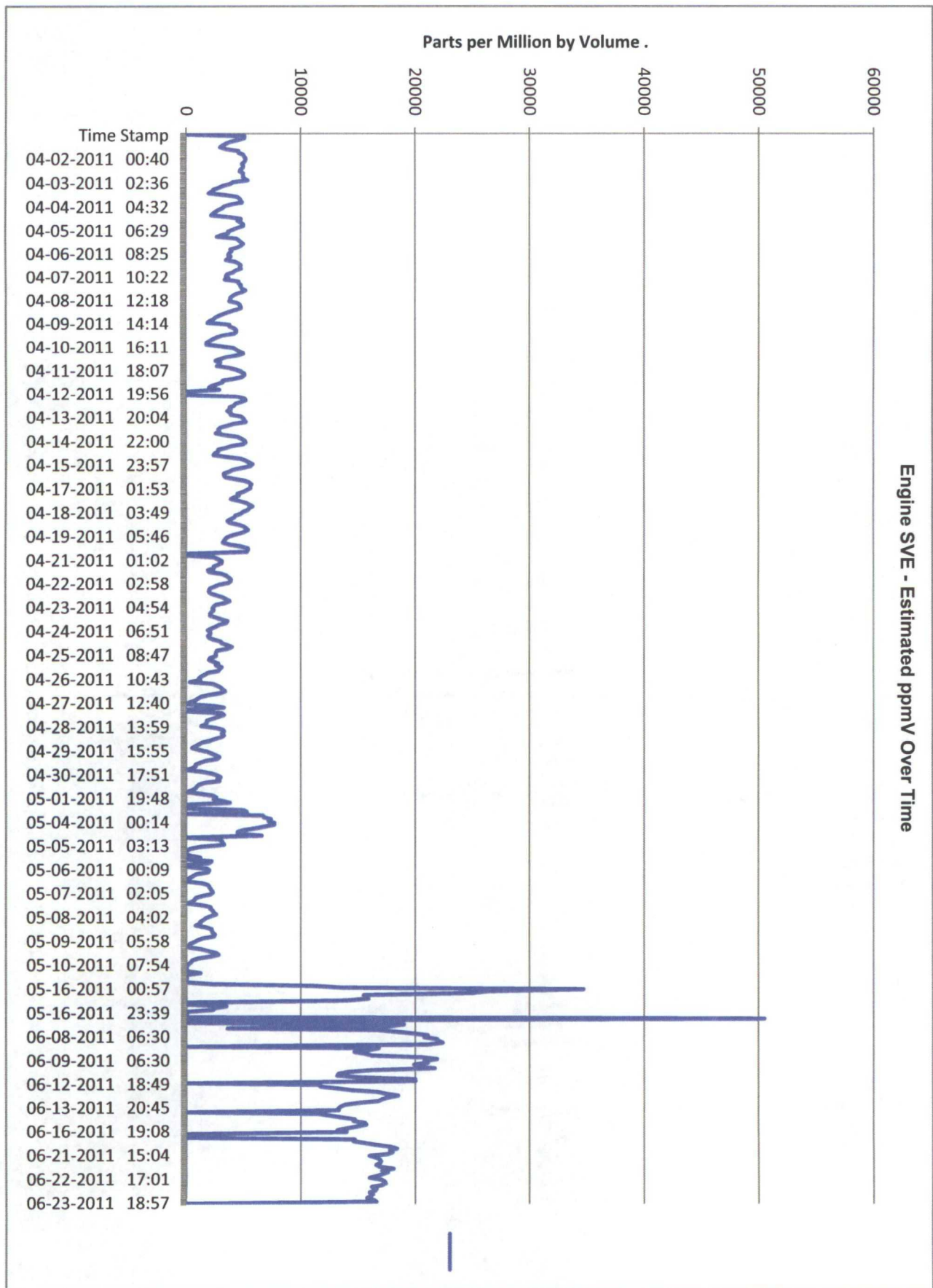
1. The controller completes the Btu/hr calculation as explained above
2. The controller looks at the well flow rate (estimated or measured in SCFM)
3. The controller then computes the average PPMV using the mass transfer equation to solve for PPMV
4. If the flow rate is estimated then PPMV is subject 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 reduce costly laboratory analysis

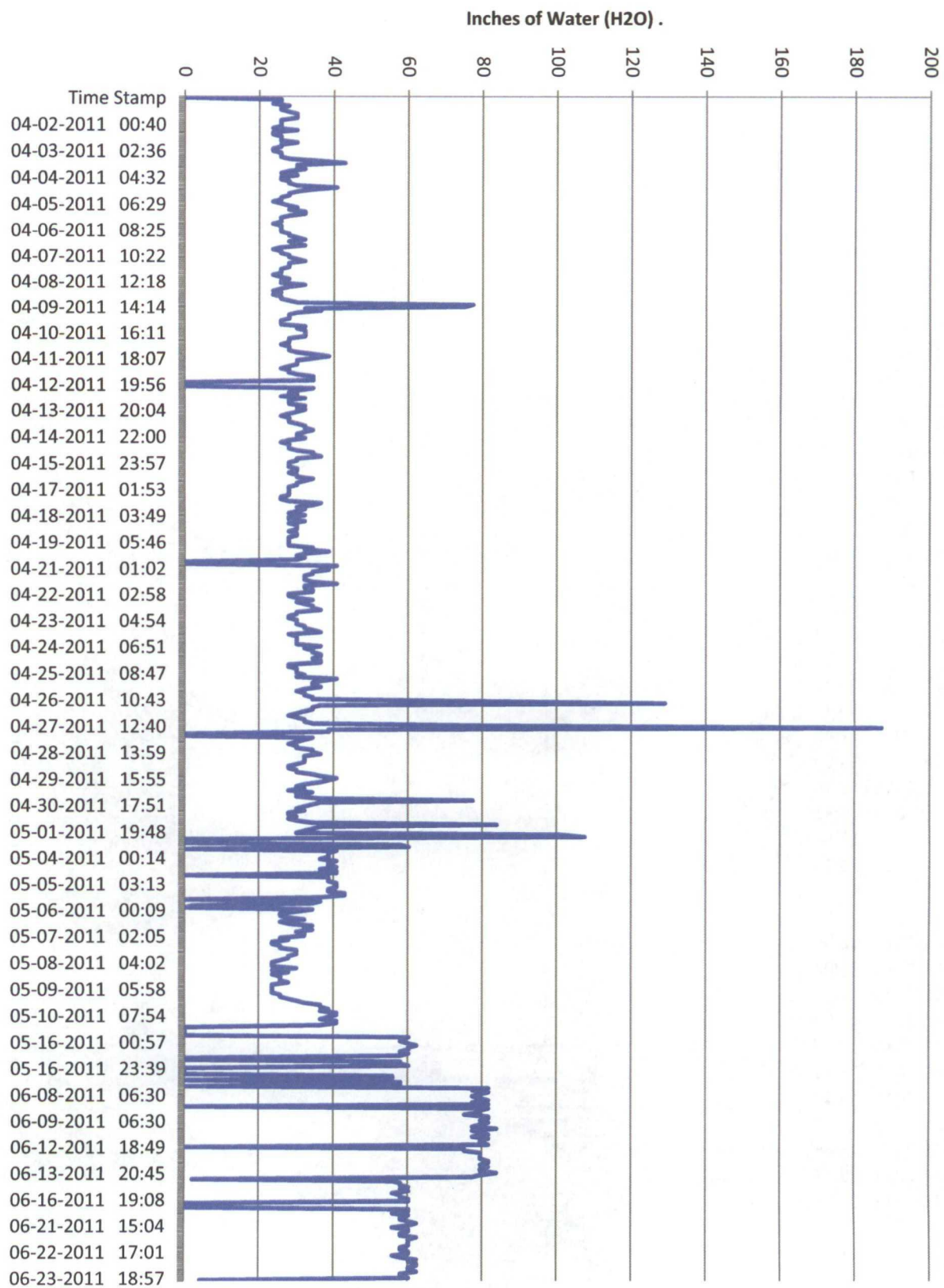
Our estimates of VOC removal have proven to be reasonable when compared to independent lab data. Because the process flow rate and the alternate fuel flow rate measurements are dependent upon proper system operation there are no expressed or implied warranties of fitness of use for any purpose when using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

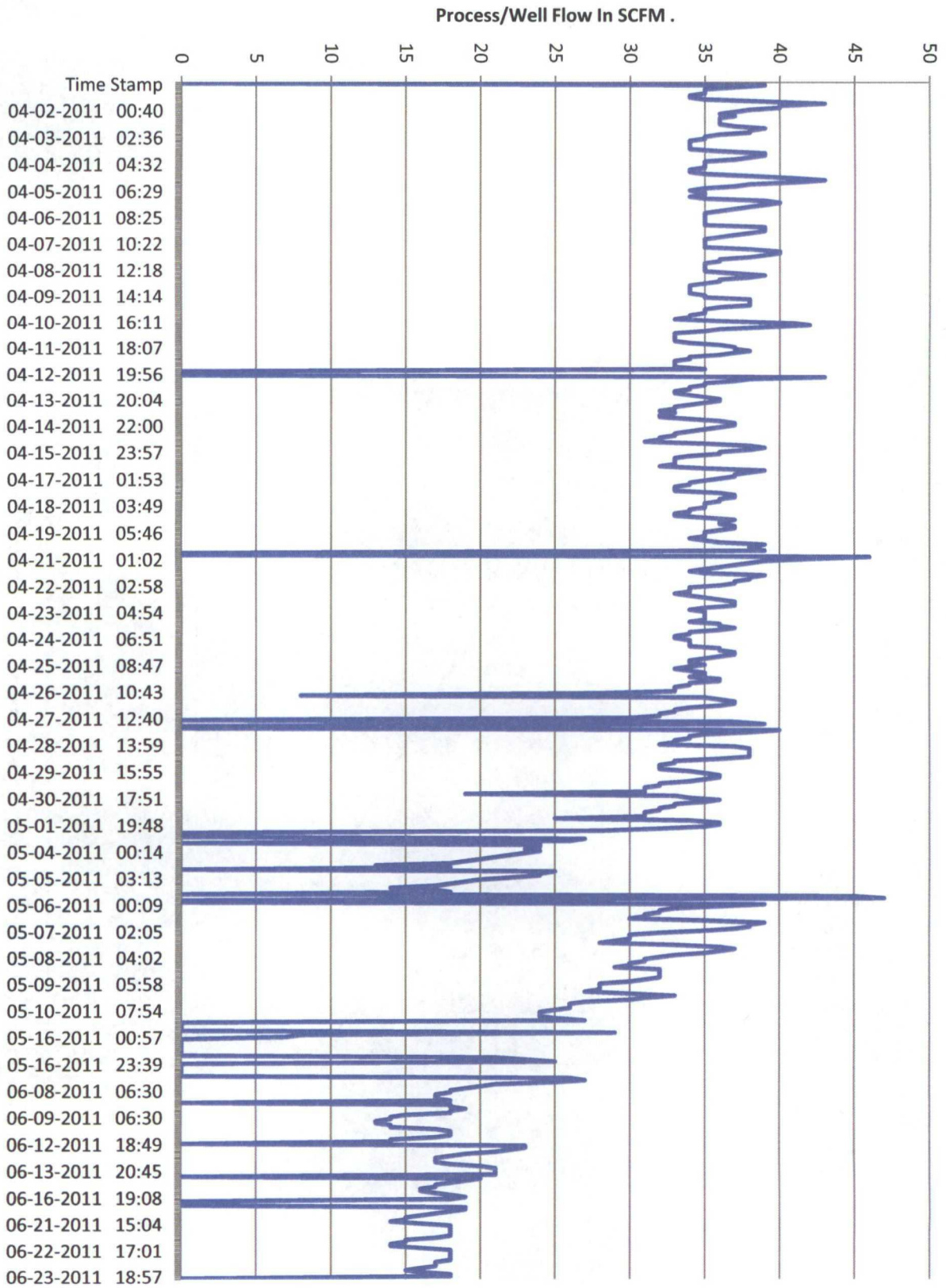


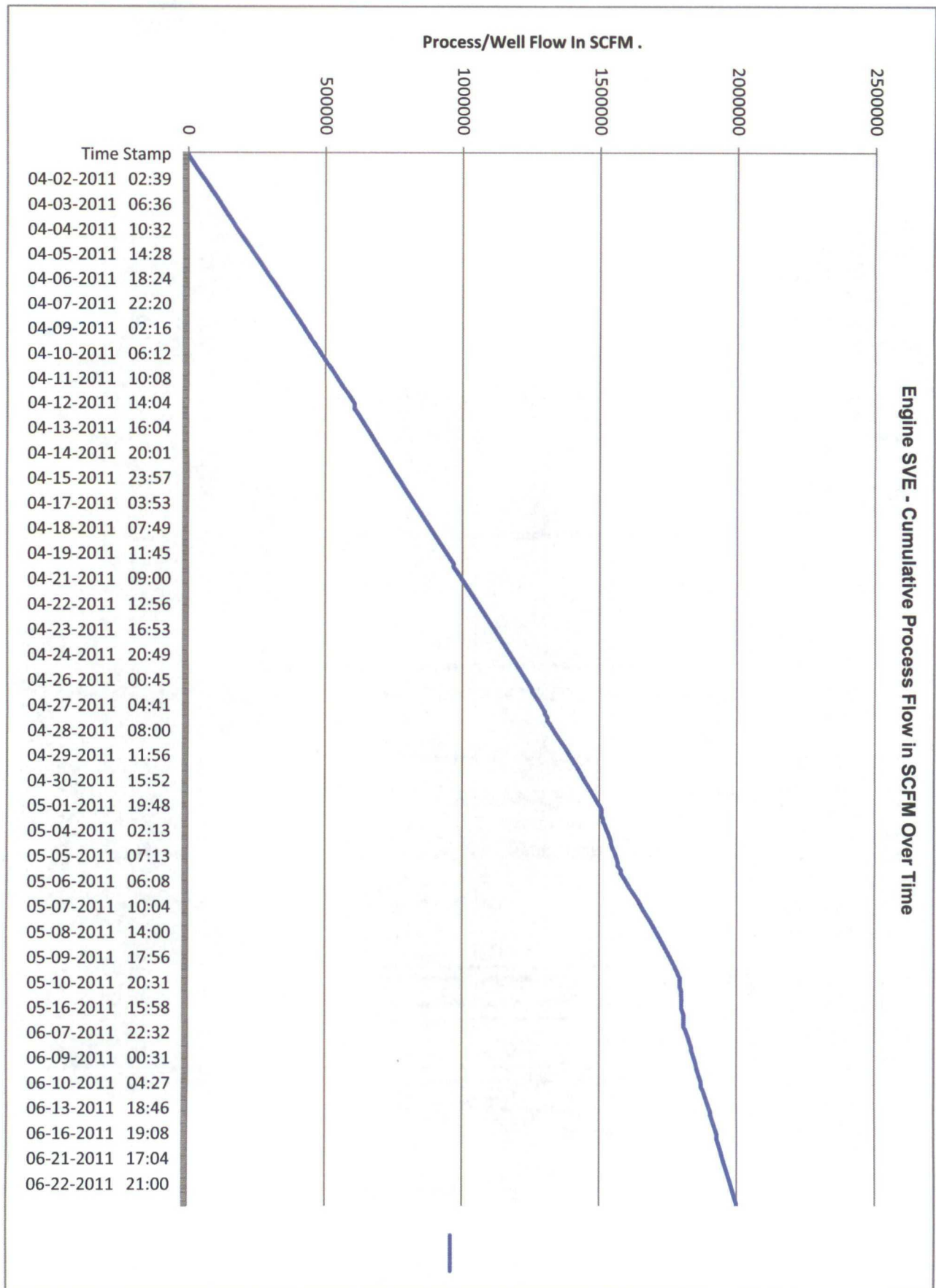


Engine SVE - Well/Process Vacuum Over Time

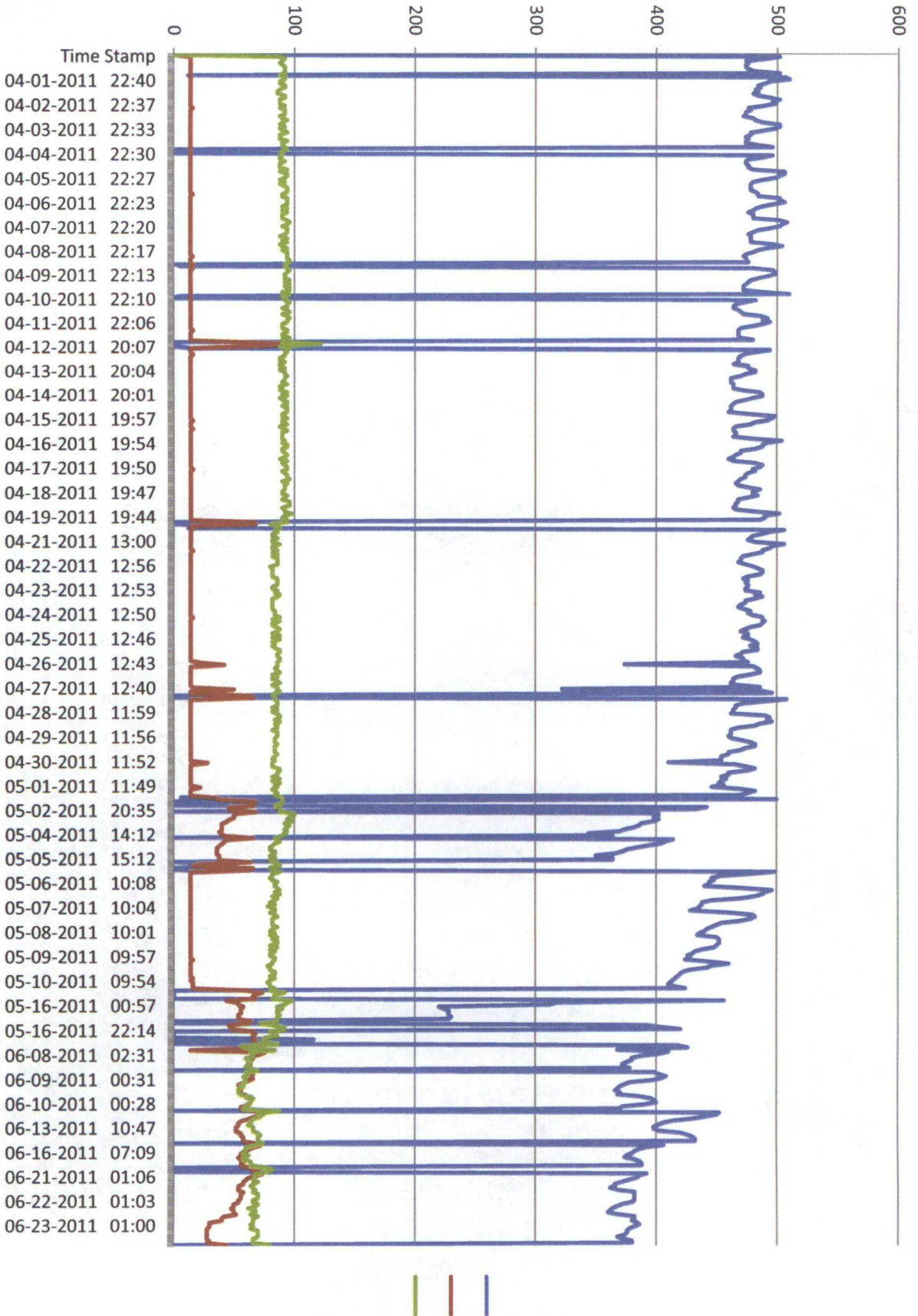


Engine SVE - Well/Process Flow Over Time

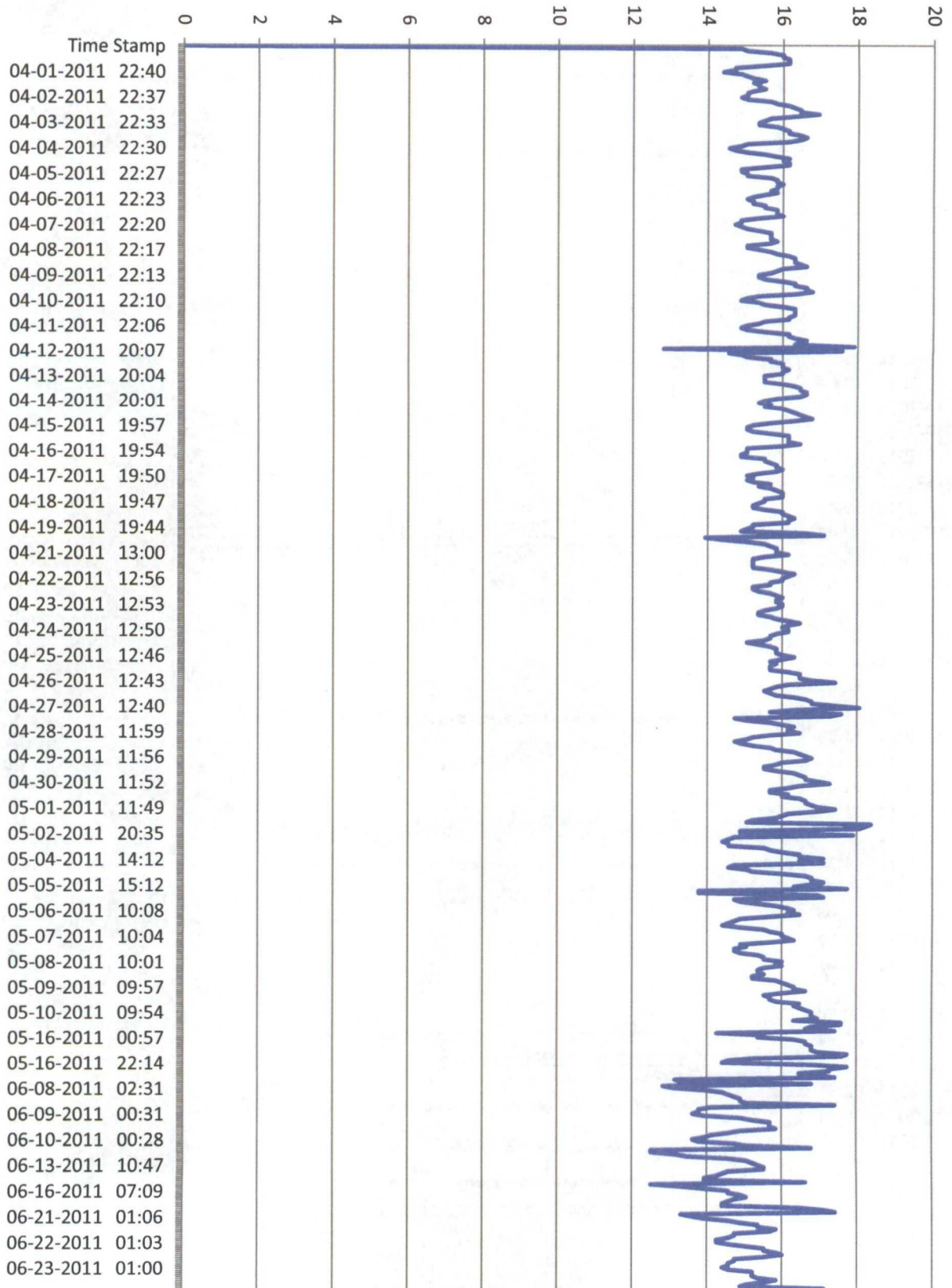




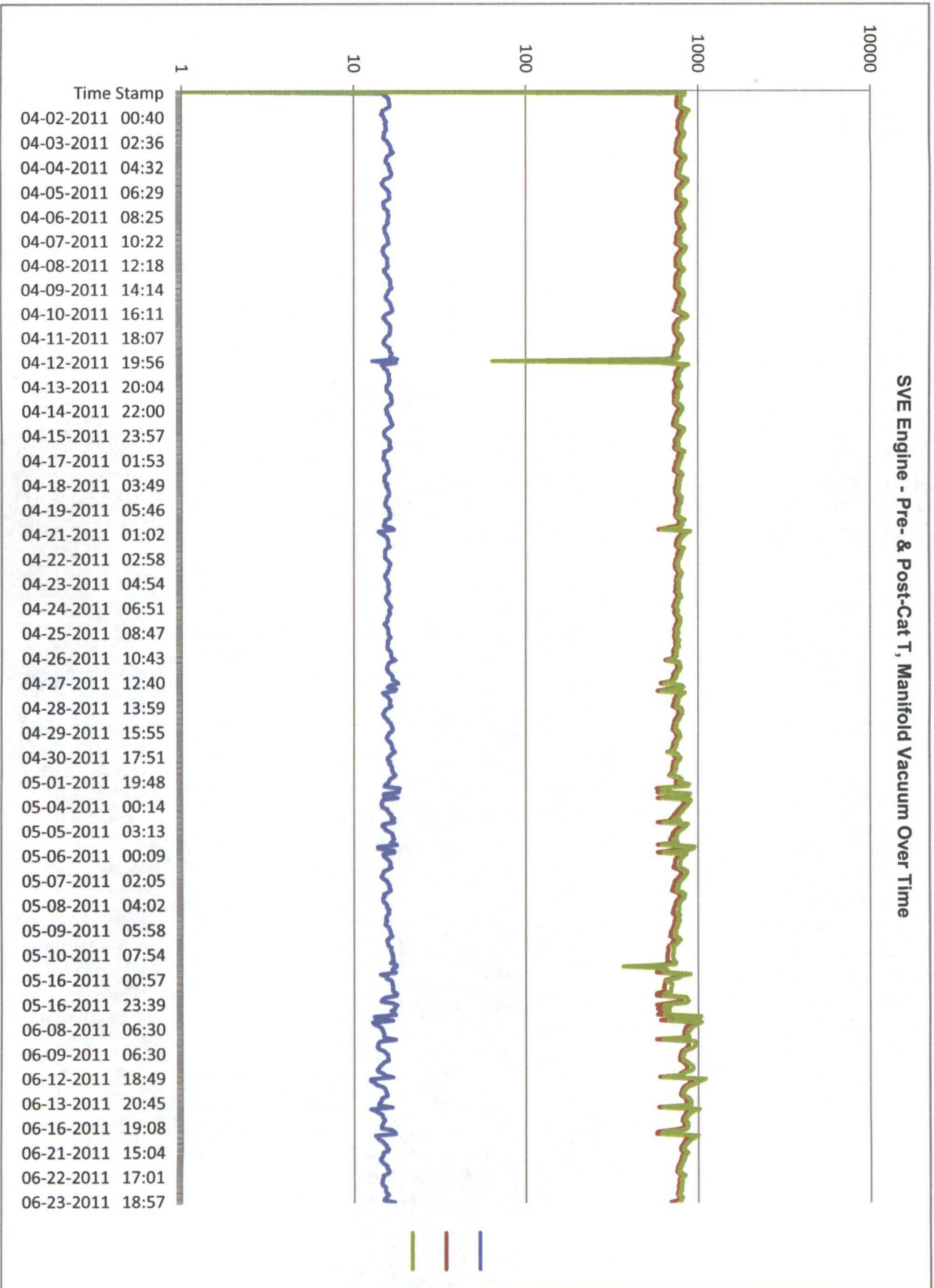
SVE Engine - Air, Fuel & Well Valve Positions Over Time



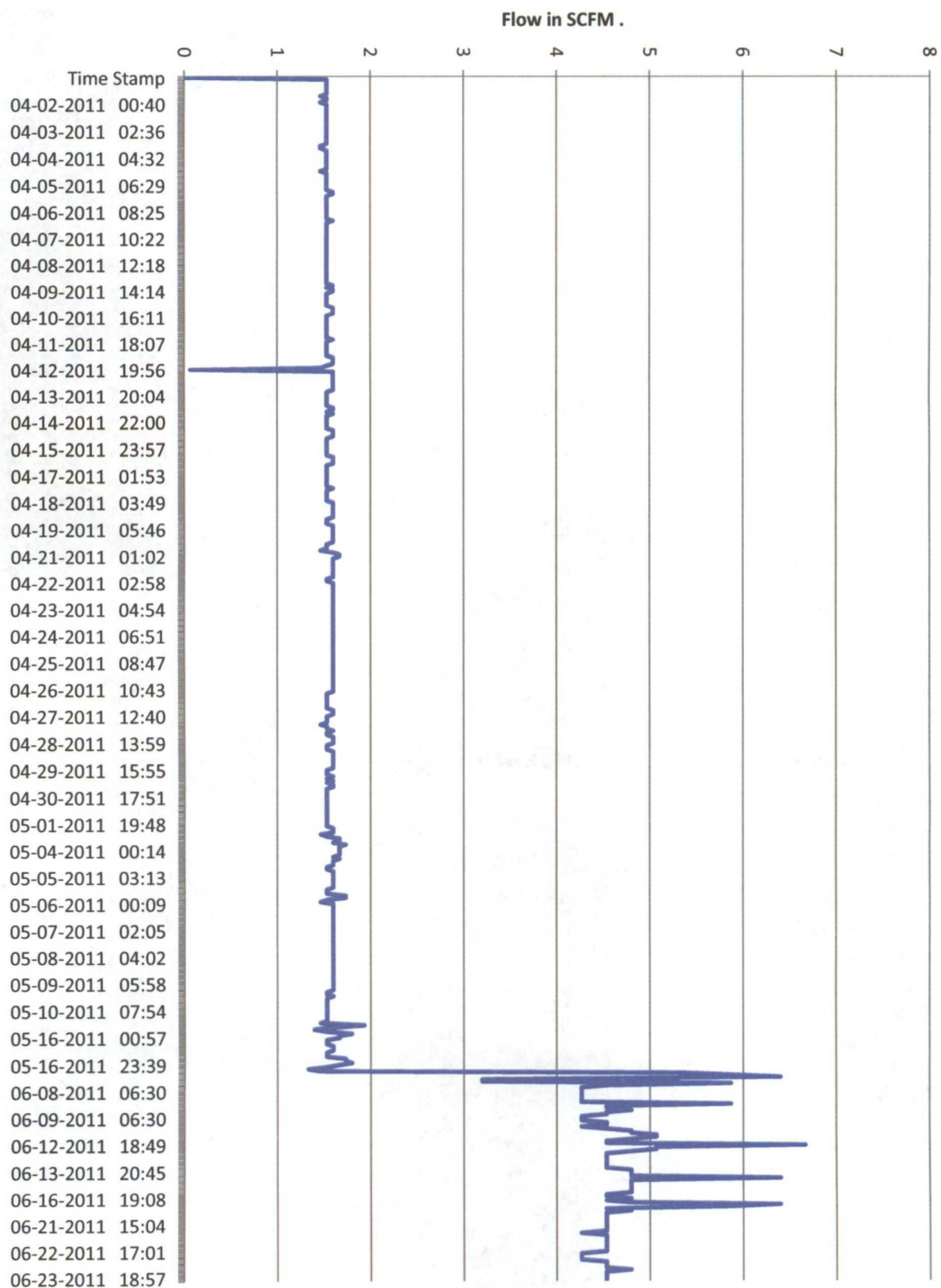
SVE Engine - Manifold Vacuum Over Time



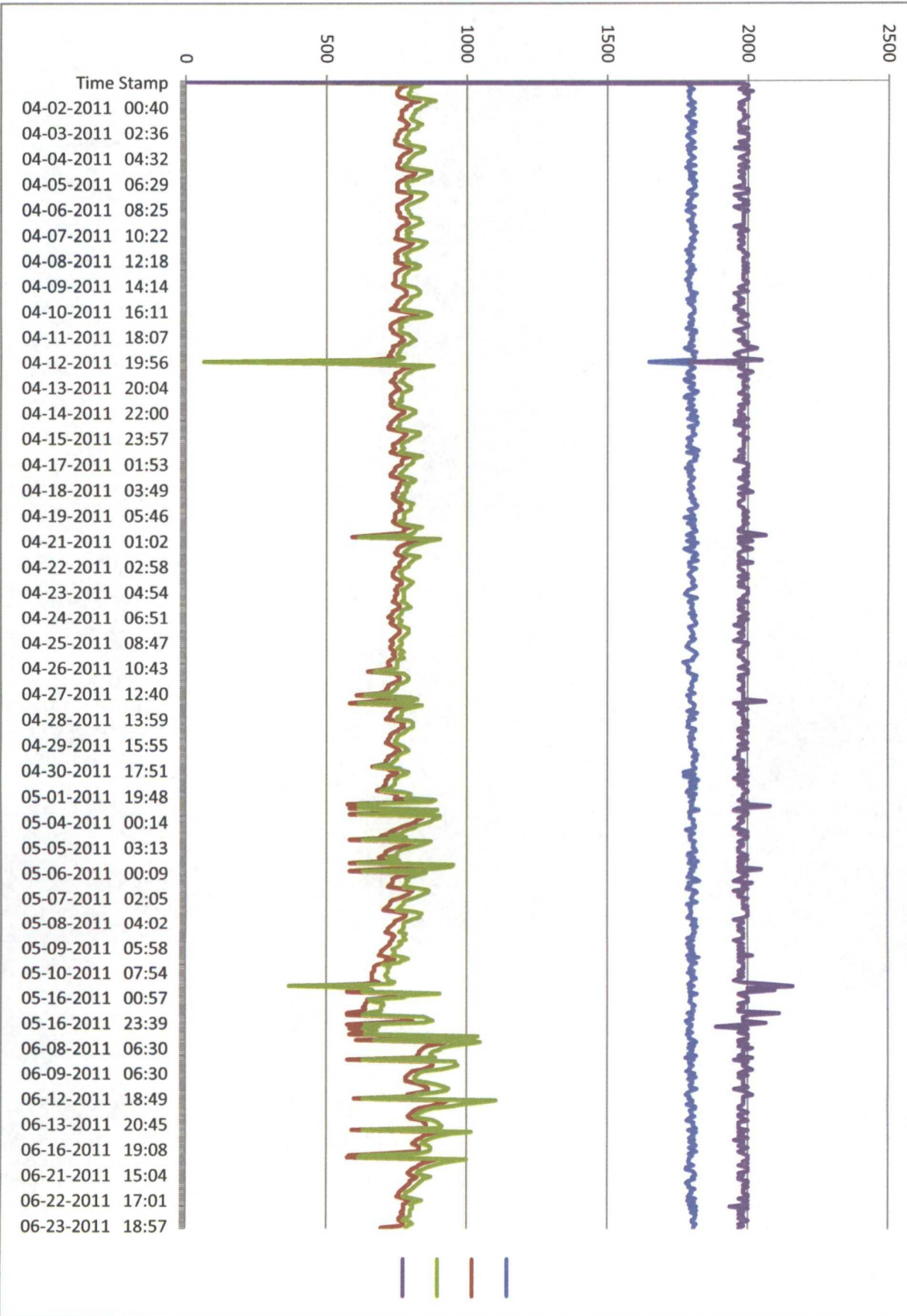
SVE Engine - Pre- & Post-Cat T, Manifold Vacuum Over Time



SVE Engine - Alternate Fuel Flow Over Time



SVE Engine - RPM, O2 and Pre/Post Cat Temperatures Over Time



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		Project No.: AES 050204	
Site:		Thriftway #810 Refinery		Date: 5-12-11	
Location:		Bloomfield, New Mexico		Time: 0930 - 1803	
Tech:		Chad Dawson		Form: 1 of 2	

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
TW-1	1025		30.62		
TW-2	1029		28.85		
TW-3	1033		27.88		
TW-4	1038		19.01		
TW-5	1042		25.42		
TW-6	1045		24.64		
TW-7	1051		22.10		Slight odor
TW-8	1057		19.59		
TW-9	1102		12.13		
TW-10	1107		12.56		
TW-11	1119		18.01		
TW-12	1124		22.30		
TW-13	1445		20.66		thick film on probe.
TW-14	1128		16.99		
TW-15	1432		13.09		
TW-16	1111		11.52		
TW-17	1435		10.03		
TW-18	1436		16.30		
TW-19	1445		17.63		for Very strong odor
TW-20	1700	17.40	17.45	0.05	
TW-21	1449				Well Damaged. History of NAPL.
TW-22	1740	14.79	15.02	0.23	
TW-23	1442		8.99		
TW-24	1746	11.09	11.15	0.06	
TW-25	1733	14.09	14.29	0.20	
TW-26	1707	15.74	16.50	0.76	
TW-28	1715	15.19	16.09	0.90	
TW-29	1750	9.35	9.83	0.48	
TW-30	1452		6.22		
TW-31	1455		7.07		
TW-32	1503	9.26	10.72	1.46	
TW-33	1522	12.80	12.82	0.02	
TW-34	1521		19.73		

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

Tel. (505) 564-2281 Fax (505) 324-2022

Form: 2 of 2

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

Ambient Air Monitoring Form

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

Tel. (505) 564-2281 Fax (505) 324-2022

Project No. AES 050204

Site: Thriftway #810 Refinery

Location: Bloomfield, New Mexico

Tech:

Date. _____

Time: _____

Form. 1 of 2

[illegible]

List Equipment Used and Date of Last Calibration:

Animas Environmental Services

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: 5-15-11
Project: Groundwater Monitoring and Sampling	Arrival Time: 1240
Sampling Technician: Chad Dawson	Air Temp: 50°
Purge / No Purge: Purge	T.O.C. Elev. (ft): 5461.17
Well Diameter (in): 2	Total Well Depth (ft): 28.08
Initial D.T.W. (ft): 22.10	Time: 1251 (5-13-11) (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 22.12	Time: 1242 (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

[illegible]

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)
Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL 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:

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
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: David Dawson
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 19.59
Confirm D.T.W. (ft): 19.32
Final D.T.W. (ft):
If NAPL Present: D.T.P.: D.T.W.: Thickness: Time:

Project No.: AES 050204
Date: 5-18-11
Arrival Time: 1318
Air Temp: 60.0
T.O.C. Elev. (ft): 5458.29
Total Well Depth (ft): 27.61
Time: 1057 (5-17-11) (taken at initial gauging of all wells)
Time: 1320 (taken prior to purging well)
Time: (taken after sample collection)

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1329	13.06	3.875	0.39	7.08	-15.7	0.50	
1335	13.05	4.364	0.25	7.13	-18.9	2.00	
1340						SC	

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

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL 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 Bailor

Notes/Comments:

Animas Environmental Services

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

Project No.: AES D50204
Date: 5-15-11
Arrival Time: 1347
Air Temp: 62°
O.C. Elev. (ft): 5458.17
Well Depth (ft): 467.15
(taken at initial gauging of all wells)
(taken prior to purging well)
(taken after sample collection)
Thickness: Time:

[illegible]

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL plastic w/ no preserve)

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Motor
and New Disposable Bailer

Notes/Comments: Boiler had a good layer of steam on water

Animas Environmental Services

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

Project No.: AES 050204
Date: 5-18-11
Arrival Time: 1405
Air Temp: 62°
T.O.C. Elev. (ft): 5454.24
Well Depth (ft): 1022.24
(1) (taken at initial gauging of all wells)
() (taken for purging well)
() (taken after sample collection)
Thickness: Time:

[illegible]

STEX, MTBE, and Total Naphthalene per EPA Method 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL plastic w/ no preserve)

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter and Now Disposable Bailer

Notes/Comments: Could see a thin layer of Sheen on water in
Bailey

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: 5-18-11
Project: Groundwater Monitoring and Sampling Arrival Time: 1415
Sampling Technician: CA Air Temp: 64.9
Purge / No Purge: Purge T.O.C. Elev. (ft): 5458.49
Well Diameter (in): 2 Total Well Depth (ft): 123.85 (23.2)
Initial D.T.W. (ft): 17.63 Time: 1445 (5-17-1) (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 12.16 Time: 1419 (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

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)
Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL 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: Kerk Water Level or Kerk Interface Level, YSI Water Quality Meter
and New Disposable Bailer

Notes/Comments: Bailer was coated with a sliver from well.

MONITORING WELL SAMPLING RECORD

Animas Environmental Services

Monitor Well No: TW-20

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

Site: Thrifty #810 Refinery Project No.: AES 050204
Location: Bloomfield, New Mexico Date: 5-8-11
Project: Groundwater Monitoring and Sampling Arrival Time: 1700
Sampling Technician: Chad Dawson Air Temp: 54°
Purge / No Purge: Purge T.O.C. Elev. (ft): 5453.74
Well Diameter (in): 2 Total Well Depth (ft): 100.00
Initial D.T.W. (ft): 588 Time: 1545 (5:45 PM) (taken at initial gauging of all wells)
Confirm D.T.W. (ft): Time: (taken prior to purging well)
Final D.T.W. (ft): Time: 1745 (taken after sample collection)
If NAPL Present: D.T.P.: 17.40 D.T.W.: 12.00 Thickness: 0.230.05 Time: 1700

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 NAPL Present							

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

BTEX, MTBE and Total Naphthalene per EPA Method 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL 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: Kock Water Level or Kock Interface Level, YSI Water Quality Meter
and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-22

Animas Environmental Services

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: 5-13-11

Project: Groundwater Monitoring and Sampling

Arrival Time: 1740

Sampling Technician:

Air Temp:

Purge / No Purge: Purge

T.O.C. Elev. (ft): 5450 19

Well Diameter (in): 2

Total Well Depth (ft): 11,400

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.: 4.76

D.T.W.: 15.02

Thickness: 0.23 Time: 13.40

Time: 1240

Water Quality Parameters - Recorded During Well Purging

[illegible]

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)

Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL 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 Baiter

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-24

Monitor Well No: TW-24

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

624 E. Comanche, Farmington NM 87401

Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftway #810 Refinery

Project No.: AES 050204

Location: Blomfield, New Mexico

Date: 5-12-11

Project. Groundwater Monitoring and Sampling

Arrival Time: 17:46

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):

Time:

(taken prior to purging well)

Final D.T.W. (ft):

Time:

(taken after sample collection)

If NAPL Present: D.T.P.: 11/6/81

D.T.W.: 11.15

Thickness: 0.06 Time: 1746

Water Quality Parameters - Recorded During Well Purging

[illegible]

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)

Chloride/Sulfate per EPA Method 300.0, TDS per 2540G (1-500 mL plastic w/ no preserve)

Disposal of Purged Water:

Collected Samples Stored on Ice in Coolers:

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 Bailor

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-25

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: C.O.

Purge / No Purge: Purge

Well Diameter (in): 2

Initial D.T.W. (ft): _____ Time: _____

Confirm D.T.W. (ft): _____ Time: _____

Final D.T.W. (ft): _____ Time: _____

If NAPL Present: D.T.P.: 14.09 D.T.W.: 14.29 Thickness: 0.20 Time: 17:33

Project No.: AES 050204

Date: 5-17-68

Arrival Time: 1733

Air Temp:

T.O.C. Elev. (ft): 5448.8

Total Well Depth (ft): 1032.2

(taken at initial opening of all wells)

(taken prior to purging well)

(taken after sample collection)

Thickness: 0.20 Time: 17.33

Water Quality Parameters - Recorded During Well Purging

[illegible]

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

BTEX, MTBE and Total Napthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL 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-26

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: ED

Purge / No Purge:	Purge
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Well Diameter (in): 2

Initial D,T,W (ft):

Confirm D.T.W. (ft):

Final D.T.W (ft):

If NAPL Present: D.T.P.: 15.74

Project No.: AES 050204

Date: 5-17-11

Arrival Time: 1707

Air Temp:

T.O.C. Elev. (ft): 5450.34

Total Well Depth (ft): 35,326.4

(taken at initial gauging of oil wells)

Time:

(taken prior to purging well)

Time:

(taken after sample collection)

D.T.W.: 16.50

Thickness: 0.26 Time: 1707

Water Quality Parameters - Recorded During Well Purging

[illegible]

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

BTEX, MTBE and Total Naphthalene per EPA Method's 8260 (3-10 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL 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:

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-28

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: C 5

Purge / No Purge:

Well Diameter (in): 2

Initial D.T.W. (ft): _____ Time: _____

Confirm D.T.W. (ft) _____ Time: _____

Final D.T.W. (ft): _____ Time: _____

IF NAPL Present: D.T.P.: 15.14 D.T.W.: 16.09

Project No.: AES 050204

Date: 5-17-61

Arrival Time: 13:15

Air Temp:

T.O.C. Elev. (ft): 5449.24

Total Well Depth (ft): 2,000

(taken at initial gauging of all wells)

(taken prior to pumping well)

(taken after sample collection)

Thickness: 0.90 Time: 1715

Water Quality Parameters - Recorded During Well Purging

[illegible]

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)

Chloride/Sulfate per EPA Method 300.0, TOS per 2540C (1-500 mL 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:

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: CD

Purge / No Purge:	Purge
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

Well Diameter (in): 2

Initial D.T.W. (ft): _____ Time: _____

Confirm D.T.W. (ft): _____ Time: _____

Final D.T.W. (ft): _____ **Time:** _____

If NAPL Present: D.T.P.: 9.35 D.T.W.: 9.83 Thickness: 0.48 Time: 17.50

Project No.: AES 050204

Date: 5-17-11

Arrival Time: 17:50

Air Temp:

T.O.C. Elev. (ft): 5441.87

Total Well Depth (ft): 100

(taken at initial gauging of all wells)

(taken prior to purging well)

(taken after sample collection).

Water Quality Parameters - Recorded During Well Purging

[illegible]

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

BTX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)

Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL 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 Motor
and New Disposable Bailer

Notes/Comments:

Monitor Well No: TW-32

Animas Environmental Services

624 E. Comanche, Farmington NM 87401

Tel. (505) 564-2281 Fax (505) 324-2022

Site: Thriftyway #810 Refinery

Location: Bloomfield, New Mexico

Project: Groundwater Monitoring and Sampling

Sampling Technician: CQ

Purge / No Purge:	Purge
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Well Diameter (in): 2

Initial D.T.W. (ft): _____

Confirm D.T.W. (ft): _____

Final D.T.W. (ft):

If NAPL Present: D.T.P.: 9.26

Project No.: AES 050204

Date: 5-12-66

Arrival Time: 1803

Air Temp: _____

T.O.C. Elev. (ft): 5441.61

Total Well Depth (ft): 22,255

(taken at initial gauging of all wells)

(taken prior to purging well)

(taken after sample collection)

Thickness: 1.46 Time: 1803

Water Quality Parameters - Recorded During Well Purging

[illegible]

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)

Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL 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: Kock Water Level or Keck Interface Level, YSI Water Quality Meter

and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

Animas Environmental Services

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

Project No.: AES 050204
Date: 5-17-11
Arrival Time: 1722
Air Temp:
C. Elev. (ft): 5445.85
Well Depth (ft):
(taken at initial gauging of all wells)
(taken prior to purging well)
(taken after sample collection)
Thickness: 0.02 Time: 1722

[illegible]

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL plastic w/ no preserve).

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter
and New Disposable Bailer

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-36

Animas Environmental Services

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: 5-13-11

Project: Groundwater Monitoring and Sampling

Arrival Time: 16:15

Sampling Technician: C-30

Air Temp:

Purge? No Purge: ☐ Purge ☐

T.O.C. Elev. (ft): 5441.91

Well Diameter (in): 2

Total Well Depth (ft): 20 35

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.: 12.97 D.T.W.: 0.99 Thickness: 0.01 Time: 1615

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (μ S) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
No Sample NIAPC Present							

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)

Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 ml, 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: Kock Water Level or Kock Interface Level, YSI Water Quality Meter
and New Disposable Bailor

Notes/Comments:

revised: 08/10/09

Animas Environmental Services

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

Project No.: AES 050204

Date: 5-16-11

Arrival Time: 1445

Air Temp: 57

T.O.C. Elev. (ft): 5439.59

Total Well Depth (ft): 16.5

Time: 1530 (5-13-11) (taken at initial gauging of all wells)

Time: 1048 (taken prior to purging well)

Time: _____ (taken after sample collection)

D.T.W.: Thickness: Time:

Water Quality Parameters - Recorded During Well Purging

[illegible]

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

BTEX, MTBE and Total Naphthalene per EPA Method 8260 (3-10 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0. TDS per 2540C (1-500 mL 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:

Animas Environmental Services

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

Site: <u>Thruway #810 Refinery</u>	Project No.: <u>AES 050204</u>
Location: <u>Bloomfield, New Mexico</u>	Date: <u>5-18-11</u>
Project: <u>Groundwater Monitoring and Sampling</u>	Arrival Time: <u>1425</u>
Sampling Technician: <u>CO</u>	Air Temp: <u>60</u>
Purge / No Purge: <u>Purge</u>	T.O.C. Elev. (ft): <u>5442.11</u>
Well Diameter (in): <u>2</u>	Total Well Depth (ft): <u>15.5</u>
Initial D.T.W. (ft): <u>11.47</u>	Time: <u>1533 (5-17-11)</u> (taken at initial gauging of all wells)
Confirm D.T.W. (ft): <u>11.40</u>	Time: <u>1427</u> (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: _____

[illegible]

BTEX, MTBE and Total Naphthalenic per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL 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

MONITORING WELL SAMPLING RECORD

Animas Environmental Services

Monitor Well No: TW-39

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: 5-19-11
Project: Groundwater Monitoring and Sampling Arrival Time: 0630
Sampling Technician: CD Air Temp: 36°
Purge / No Purge: Purge T.O.C. Elev. (ft): 5438.43
Well Diameter (in): 2 Total Well Depth (ft): 500.00
Initial D.T.W. (ft): 7.25 Time: 501 (5-12-11) (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 7.22 Time: 0635 (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 (μ S) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
0042	11.84	4.654	1.00	7.13	-13.2	0.50	
0648						SC	

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

BTEX, MTBE and Total Naphthalene per EPA Method 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL 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:

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

Project No.: AES 050204

Location: Bloomfield, New Mexico

Date: 5-17-11

Project: Groundwater Monitoring and Sampling

Arrival Time: 17.56

Sampling Technician: CD

Air Temp:

Purge / No Purge:	Purge
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T.O.C. Elev. (ft): 5437.5

Well Diameter (in): 2

Total Well Depth (ft): 572.5

Initial D.T.W. (ft): _____ Time: _____

(taken at initial gauging of all wells)

Confirm D.T.W. (ft): _____ Time: _____

Time: _____ (taken prior to purging well)

Final D.T.W. (ft): _____ Time: _____

Time: _____ (taken after sample collection)

IF NAPL Present: D.T.P.: 7.72 D.T.W.: 8.14 Thickness: 0.42 Time: 17-24

D.T.W.: 9.19

Thickness: 0.43

Time: 7-22

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (μ S) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
NO Sample NAPL Present							

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)

Chloride/Sulfate per EPA Method 300.0, TDS per 2540C(1-500 mL 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-41

621 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: 5-18-11
Project: Groundwater Monitoring and Sampling Arrival Time: 1600
Sampling Technician: CO Air Temp: 48°
Purge / No Purge: Purge T.O.C. Elev. (ft): 5434.77
Well Diameter (in): 2 Total Well Depth (ft): 200.00
Initial D.T.W. (ft): 5.92 Time: 1511 (5-17-11) (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 5.90 Time: 1612 (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
1618	13.17	5.1075	0.78	7.05	13.9	0.50	
1623						3.0	

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)
Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL 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:

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-43

Animas Environmental Services

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

Site: Thriftway #010 Refinery

Project No.: AES 050204

Location: Bloomfield, New Mexico

Date: 5-18-11

Project: Groundwater Monitoring and Sampling

Arrival Time: 1503

Sampling Technician:

Air Temp: 57°

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): 17.15

Time: 1525 (5-17-11) (taken at initial gauging of all wells)

Confirm D.T.W. (ft): 12.15

Time: 1505 (taken prior to purging well)

Final D.T.W. (ft): 17.42Time: 3:33 (taken prior to plugging in)
Time: 3:33 (taken after sample collection)

If NAPL Present: D.T.P.:

D.T.W.: _____ Thickness: _____ Time: _____

Water Quality Parameters - Recorded During Well Purging

[illegible]

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

BTEX, MTBE and Total Naphthalene per EPA Methods B260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0, TDS per 2540C(1-500 mL 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 Bailor

Notes/Comments

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Monitor Well No: TW-44

Animas Environmental Services

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

Site: Thriftway #810 Refinery
 Location: Bloomfield, New Mexico
 Project: Groundwater Monitoring and Sampling
 Sampling Technician: CD
 Purge / No Purge: Purge
 Well Diameter (in): 2
 Initial D.T.W. (ft): _____ Time: _____
 Confirm D.T.W. (ft): _____ Time: _____
 Final D.T.W. (ft): _____ Time: _____
 If NAPL Present: D.T.P.: 14.96 D.T.W.: 15.01

Project No.: AES 050204

Date: 5-17-11

Arrival Time: 1725

Air Temp: _____

T.O.C. Elev. (ft): 5441.08

Total Well Depth (ft): 20.45

Initial P.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.: 14.96 D.T.W.: 15.01 Thickness: 0.05 Time: 1725

Water Quality Parameters - Recorded During Well Purging

[illegible]

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)
Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL 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:

Animas Environmental Services

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

Site: <u>Thriftway #810 Refinery</u>	Project No.: <u>AES 050204</u>
Location: <u>Bloomfield, New Mexico</u>	Date: <u>5-17-11</u>
Project: <u>Groundwater Monitoring and Sampling</u>	Arrival Time: <u>0935</u>
Sampling Technician: <u>Clayton Dawson</u>	Air Temp: <u>56°</u>
Purge / No Purge: <u>Purge</u>	T.O.C. Elev. (ft): <u>5100</u>
Well Diameter (in): <u>2</u>	Total Well Depth (ft): <u>5100</u>
Initial D.T.W. (ft): <u>7.20</u>	Time: <u>1540 (5-17-11)</u> (taken at initial gauging of all wells)
Confirm D.T.W. (ft): <u>7.21</u>	Time: <u>0935</u> (taken prior to purging well)
Final D.T.W. (ft): <u></u>	Time: <u></u> (taken after sample collection)
If NAPL Present: <u>D.T.P.:</u>	D.T.W.: <u></u> Thickness: <u></u> Time: <u></u>

[illegible]

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0 TDS per 2540C (1-500 mL plastic w/ no preserve)

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter
and New Disposable Bailer

Notes/Comments:

Animas Environmental Services

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

Project No.: AES 050204
Date: 5-18-11
Arrival Time: 0957
Air Temp: 57°
C. Elev. (ft):
Well Depth (ft):
(taken at initial gauging of all wells)
(taken prior to purging well)
(taken after sample collection)
Thickness: Time:

[illegible]

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL plastic w/ no preserve)

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter
and New Disposable Bailer.

Notes/Comments:

MONITORING WELL SAMPLING RECORD

Animas Environmental Services

Monitor Well No: TW-50

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

Site: Thriftyway #810 Refinery Project No.: AES 050204
Location: Bloomfield, New Mexico Date: 5-19-11
Project: Groundwater Monitoring and Sampling Arrival Time: 0650
Sampling Technician: CD Air Temp: 41°
Purge / No Purge: Purge T.O.C. Elev. (ft): 5252.5
Well Diameter (in): 2 Total Well Depth (ft): 5252.5
Initial D.T.W. (ft): 7.89 Time: 1455 (5-17-11) (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 7.89 Time: 0653 (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 (μ S) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
0659	12.42	5.337	0.78	7.13	-18.3	0.50	
0705						SC	

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

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL 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:

Animas Environmental Services

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

Project No.: AES 050204.
Date: 5-18-11
Arrival Time: 0900
Air Temp: 54°
C. Elev. (ft): 5430.45
Well Depth (ft):
(taken at initial gauging of all wells)
(taken prior to purging well)
(taken after sample collection)
Thickness: Time:

[illegible]

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL, Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL plastic w/ no preserve)

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter
and New Disposable Bailer

Notes/Comments:

revised: 08/10/09

MONITORING WELL SAMPLING RECORD

Animas Environmental Services

Monitor Well No: MW-21

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

Site: Thruway #810 Refinery Project No.: AES 050204
Location: Gloomfield, New Mexico Date: 5-18-11
Project: Groundwater Monitoring and Sampling Arrival Time: 10:17
Sampling Technician: C.O. Air Temp: 55°
Purge / No Purge: Purge T.O.C. Elev. (ft): 5428.62
Well Diameter (in): 2.0 Total Well Depth (ft): 57.0
Initial D.T.W. (ft): 3.52 Time: 1409 (5-17H) (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 3.52 Time: 10:19 (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
1024	13.38	5.024	0.75	7.07	-15.1	0.50	
1031	13.05	5.026	1.05	7.07	-14.5	2.00	
1040						SC	

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

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL 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

Animas Environmental Services

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

Project No.: AES 050204
 Date: _____
 Arrival Time: _____
 Air Temp: _____
 S.C. Elev. (ft): _____
 Well Depth (ft): _____
(taken at initial gauging of all wells)
(taken prior to purging well)
(taken after sample collection)
 Thickness: _____ Time: _____

[illegible]

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL plastic w/ no preserve)

Equipment Used During Sampling: Keck Water Level or Keck Interface Level, YSI Water Quality Meter
and New Disposable Bailer

Notes/Comments:

Animas Environmental Services

624 E. Comanche, Farmington NM 87401

Site: Thntway #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
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T.O.C. Elev. (ft):

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.:

D.T W:

Thickness:

Time:

[illegible]

BTEX, MTBE and Total Naphthalene per EPA Methods 8260 (3-40 mL Vials w/ HCl preserve)
Chloride/Sulfate per EPA Method 300.0, TDS per 2540C (1-500 mL 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: