

GW - 55

REPORTS

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January 24, 2011

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

**RE: 4th Quarter Remedial Progress Report 2010 for the Thriftway Refinery, 626
County Road 5500, Bloomfield, New Mexico**

Dear Mr. von Gonten and Mr. Hansen:

Animas Environmental Services, LLC (AES) has prepared this 4th Quarter Remedial Progress Report 2010 detailing remedial activities during the fourth quarter on behalf of Thriftway Company (Thriftway) for the Thriftway Refinery, located at 626 County Road 5500, Bloomfield, San Juan County, New Mexico, in accordance with New Mexico Oil Conservation Division (NMOCD) and New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB) regulations.

This 4th Quarter Remedial Progress Report details groundwater monitoring and sampling activities conducted at the site during November 2010. A General Site Plan is included as Figure 1.

1.0 Groundwater Monitoring and Sampling

BioTech conducted groundwater monitoring and sampling at the site between November 15 and 17, 2010. The information below, taken from the Interim Groundwater Sampling Plan submitted to NMOCD on January 25, 2010, lists wells that were gauged and/or sampled during the November 2010 sampling event.



Year 1 Quarterly Gauging/Sampling Monitor Well List

Well Name	Gauging Only	Gauging and Sampling
TW-1 through TW-10	X	
TW-11	X	
TW-12	X	
TW-13 through TW-14	X	
TW-15 through TW-17	X	
TW-18		X
TW-19 through TW-22		X*
TW-20 - attached to RSI Unit		
TW-21 damaged beyond repair		
TW-23	X	
TW-24		X*
TW-25 through TW-29		X*
TW-30 through TW-31		X
TW-32 through TW-33		X*
TW-34	X	
TW-35		X
TW-36		X*
TW-37 through TW-39		X
TW-40		X*
TW-41 through TW-43		X
TW-44		X*
TW-45		X
TW-46		X
TW-47		X
MW-5		X
MW-20, MW-21		X
MW-7		X
* Well currently has measurable NAPL, but will be added to the sampling list during the first quarter in which NAPL is not observed.		

1.1 Measurement of Groundwater Elevations

Before collection of groundwater samples, 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 of the wells previously known to contain light non-aqueous phase liquid (LNAPL, or "free product") were measured with an electronic interface probe, and the depths to the top of product and the oil/water interface were recorded on a groundwater measurement form. Free product was measured in November 2010 in a total of 14 wells, including TW-13, TW-19, 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. Monitor wells containing free product were not sampled during November 2010.

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 16 wells, including TW-18, TW-30, TW-31, TW-35, TW-37 through TW-39, TW-41 through TW-43, TW-45, TW-47, TW-49, MW-5, MW-20, and MW-21, were analyzed for the following:

- Total petroleum hydrocarbons (TPH) for Gasoline Range Organics (GRO), Motor Oil Range Organics (MRO), and Diesel Range Organics (DRO) per EPA Method 8015B;
- Benzene, toluene, ethylbenzene, xylenes (BTEX), methyl-t-butyl ether (MTBE), and naphthalene per EPA Method 8260;
- RCRA 8 Metals per EPA Method 6010 and 7470;
- Dissolved metals (calcium, magnesium, potassium, and sodium) per EPA Method 6010;
- Bromide, chloride, fluoride, and sulfate per EPA Method 300.0;
- Hardness as CaCO₃ per EPA Method 6010;
- Total dissolved solids (TDS) per Standard Method 2540C; and
- Specific conductance per EPA Method 120.1.

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

2.0 Groundwater Monitoring and Sampling Results

2.1 *Hydraulic Gradient and Water Quality Data*

2.1.1 Hydraulic Gradient

Using surveyed top of casing (TOC) elevations and the recorded groundwater depths, AES determined specific groundwater elevations, relative to sea level, for each well measured. Groundwater elevations across the site in November 2010 ranged from 5,423.80 feet above mean sea level (AMSL) in MW-5 to 5,440.70 feet AMSL in TW-1. Groundwater elevations have decreased across the site by an average of 0.20 feet since the last sampling event in August 2010. Groundwater gradient was calculated between TW-1 and MW-5 with a magnitude of 0.008 ft/ft to the northwest for November 2010. The groundwater flow direction has remained stable, in a northwesterly direction, which is consistent with historical site data.

Table 1 includes depth to groundwater measurements and final water table elevations. Groundwater elevation contours for November 2010 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 for all wells being sampled until temperature, pH, conductivity, and dissolved oxygen (DO) measurements stabilized. Recorded temperatures during the November 2010 sampling event ranged from 13.63 °C in MW-20 to 16.96 °C in TW-38. Groundwater pH ranged between 6.93 (TW-12, TW-41, and TW-45) and 7.62 (MW-5), and conductivity readings were between 3.343 mS in TW-12 and 10.79 mS in TW-47. Dissolved oxygen concentrations ranged from 0.40 mg/L in MW-20 to 2.09 mg/L in TW-47.

2.2 *Free Product*

Free product (LNAPL) was measured in 14 monitor wells, including TW-13, TW-19, 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 0.03 feet (TW-44) to 1.57 feet (TW-32). Free product thickness contours for November 2010 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 four of the 16 wells sampled, including TW-37 (280 µg/L), TW-38 (140 µg/L), TW-39 (92 µg/L), and TW-41 (96 µg/L). Dissolved phase benzene concentration contours for November 2010 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 (2,200 µg/L).

Dissolved phase MTBE concentrations outside the area of free product were above the WQCC standard of 100 µg/L in four of the wells sampled in November 2010, including TW-37 (120 µg/L), TW-43 (370 µg/L), TW-45 (170 µg/L), and MW-20 (160 µg/L). All other wells were either below the laboratory detection limit of 1.0 µg/L or below applicable WQCC standards. MTBE concentration contours for November 2010 are included on Figure 5.

Dissolved phase total naphthalene concentrations outside the area of free product were above the WQCC standard of 30 µg/L in one well, TW-41 (55 µg/L). The remaining wells sampled were either below laboratory detection limits or below the applicable WQCC standard.

Dissolved phase TPH-GRO concentrations outside the area of free product ranged from below laboratory detection limits of 0.050 mg/L (TW-31, TW-35, and TW-47) to 6.6 mg/L (TW-41). TPH-MRO concentrations were below laboratory detection limits of 5.0 mg/L in all sampled wells. TPH-DRO concentrations were below laboratory detection limits of 1.0 mg/L in all sampled wells, except TW-37 (2.3 mg/L) and TW-41 (1.4 mg/L).

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

2.3.2 Geochemical Parameters

Geochemical analytical results from November 2010 are as follows:

- RCRA 8 Metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) were reported below the laboratory detection limit or the below the applicable WQCC standards in all sampled wells;
- Dissolved calcium concentrations ranged from 150 mg/L (MW-5) to 630 mg/L (TW-49);
- Dissolved magnesium concentrations ranged from 29 mg/L (MW-5) to 120 mg/L (TW-47);
- Dissolved potassium concentrations ranged from 3.5 mg/L (TW-37 and TW-38) to 14 mg/L (TW-49);
- Dissolved sodium concentrations ranged from 760 mg/L (TW-37) to 2,300 mg/L (TW-47);
- Bromide concentrations ranged from 0.26 mg/L (TW-35) to 2.1 mg/L (TW-49);
- Chloride concentrations were reported above the WQCC standard of 250 mg/L in TW-30 (1,400 mg/L), TW-31 (750 mg/L), TW-37 (310 mg/L), TW-39 (540 mg/L), TW-41 (1,100 mg/L), TW-42 (840 mg/L), TW-45 (320 mg/L), TW-47 (1,200 mg/L), TW-49 (3,400 mg/L), MW-5 (310 mg/L), MW-20 (430 mg/L), and MW-21 (820 mg/L);
- Fluoride concentrations remained below the WQCC of 1.6 mg/L in all sampled wells;
- Sulfate concentrations were reported above the WQCC standard of 600 mg/L in all sampled wells. Reported sulfate concentrations ranged from 610 mg/L (TW-41) to 7,000 mg/L (TW-49);
- Specific conductance in the sampled wells ranged from 4,100 μ mhos/cm to 8,800 μ mhos/cm;
- Hardness as CaCO_3 ranged from 500 mg/L (MW-5) and 1,900 mg/L (TW-49);
- TDS concentrations were above the WQCC standard of 1,000 mg/L in all wells sampled, with the highest TDS concentrations detected in TW-47 (8,800 mg/L).

Groundwater geochemical results have been summarized in Table 3 and Table 4. Electronic copies of laboratory analytical reports are included in Appendix A.

3.0 Measurement of Groundwater and Free Product in MPE Remediation Wells

BioTech personnel measured depth to groundwater in the Phase 1, 2, and 3 multi-phase extraction (MPE) wells on November 11 and 12, 2010. Depth to water ranged from 14.14 feet below TOC in MPE-56 to 23.82 feet below TOC in MPE-1. On November 11 and 12, 2010, free product was reported in MPE-2 (0.09 feet), MPE-5 (0.15 feet), MPE-13 (0.06 feet), MPE-21 (0.09 feet), MPE-22 (0.01 feet), MPE-26 (0.55 feet), MPE-35 (0.41 feet), MPE-38 (0.60 feet), and MPE-47 (0.41 feet). MPE well data is included in Table 5.

4.0 MPE Remediation System Operations

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

Both Engine #1 and Engine #2 were shut-down during September 2010 due to extensive mechanical problems, and as a result no data report has been generated since September 2010. September data will be included with the next MPE Systems Operation report expected in 2011. The unit engines underwent rebuild during the fourth quarter of 2010. The first engine rebuild is almost complete, with operation testing currently in progress. Installation of the first engine at the site is anticipated for early 2011.

5.0 Phytoremediation Project

A representative from the New Mexico State University (NMSU) Agricultural Science Center in Farmington conducted an evaluation of the phytoremediation project area in October 2010. Seasonal irrigation of the project area was shut down on October 1, 2010. Results of the August and October evaluation are tabulated below:

**Former Thriftway 810
Phytoremediation Project August and October 2010 Evaluation Results**

<i>Species</i>	<i>% Survival- August 2010</i>	<i>% Survival- October 2010</i>	<i>Plant Height- August 2010 (ft)</i>	<i>Plant Height- October 2010 (ft)</i>
Fourwing Saltbush (4wsb)	100.0	73.3	--	0.3
Fourwing Saltbush – Santa Fe (4wsb-sf)	100.0	87.1	--	1.2
Poplar Tree (58-280)	40.0	10.0	3.0	3.3
Poplar Tree (dn-34)	75.0	85.0	3.4	3.5
Native Cottonwood (Native)	82.9	82.9	2.9	3.3
Oxford Paper Hybrid (OP-367)	79.3	82.9	3.9	4.4
Poplar Tree (pc-6)	78.0	86.0	3.5	4.0
Giant Sacaton Grass (Sac)	na	na	na	na

Decreases in survival rates were noted in the fourwing saltbushes and poplar tree (58-280), while survival rates increased in the remaining species. Increases in survival rates may be a result of an early die-off then a late green-up phase. Plant heights increased in all species since the August evaluation.

6.0 Summary and Conclusions

BioTech Remediation completed groundwater monitoring and sampling at the site in November 2010. Groundwater elevations in November 2010 decreased by an average of 0.20 feet since August 2010 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 consistent with historical site data.

In November 2010, free product was observed and measured in 14 monitor wells, including TW-13, TW-19, TW-20, TW-22, TW-24 through TW-26, TW-28, TW-29, TW-32, TW-33, TW-36, TW-40, and TW-44. Measured thicknesses ranged from 0.03 feet (TW-44)

to 1.57 feet (TW-32). In November 2010, free product was also observed in remediation wells MPE-2, MPE-5, MPE-13, MPE-21, MPE-22, MPE-26, MW-35, MPE-38, and MPE-47.

Based upon the analytical results for the November 2010 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 280 µg/L in TW-37. Xylene concentrations were above the applicable WQCC standard of 620 µg/L in TW-41 (2,200 µg/L). The highest dissolved phase MTBE concentration was detected in TW-43 (370 µg/L). Monitor well TW-41 exceeded the WQCC standard for naphthalene with 55 µg/L.

Geochemical data for the November 2010 sampling event showed that chloride concentrations exceeded the WQCC standard of 250 mg/L in 12 of the 16 sampled wells with the highest concentration being reported in TW-49 (3,400 mg/L). All sampled wells had concentrations of sulfate above the WQCC standard of 600 mg/L, with the highest concentration reported in TW-49 with 7,000 mg/L. All wells exceeded the WQCC standard of 1,000 mg/L for TDS with the highest concentration reported in TW-47 (8,800 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 units have remained off-line during the fourth quarter. One of the engines is currently undergoing testing with installation anticipated for early January 2011. The second unit is anticipated to be operational during the first half of 2011.

7.0 Recommendations and Scheduled Site Activities

The following items are scheduled to occur during the 4th Quarter 2010:

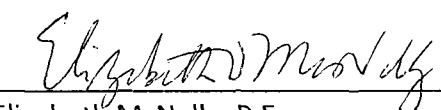
1. In accordance with the conditions of the Interim Groundwater Sampling Plan approval by NMOCD, the quarterly groundwater and NAPL monitoring event will be conducted in February and the first semi-annual sampling event will be conducted in May 2011.
2. A representative from the NMSU Agricultural Science Center at Farmington will be onsite in the spring of 2011 to conduct a survival rate survey and evaluation of the phytoremediation project trees as well as a review of the health of the plants.

3. It is anticipated that Engine #1 of the MPE Remediation Unit will be installed onsite during January 2011. BioTech will collect air emission samples from the well gas influent and from the pre-cat and post-cat sample ports from the engines once the engines are in operation. 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
Table 3.	Summary of Groundwater RCRA 8 Metals Analytical Results
Table 4.	Summary of Groundwater Dissolved Cations, Anions, Specific Conductance, Hardness, and Total Dissolved Solids Analytical Results
Table 5.	Summary of Groundwater Measurements for Phase 1, 2, and 3 MPE Wells

Figures

Figure 1.	General Site Plan
Figure 2.	Groundwater Elevations, November 2010
Figure 3.	Free Product Thickness Contours, November 2010
Figure 4.	Dissolved Benzene Concentration Contours, November 2010
Figure 5.	Dissolved MTBE Concentration Contours, November 2010

Graphs

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

Appendices

Appendix A. *Electronic*
Water Sample Collection Forms
Laboratory Analytical Reports

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 012411.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-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-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

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-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-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-6	15-Dec-08	5463.57		24.78		5438.79	6.50	4.719	0.99	14.50	9.0	1.25
TW-6	26-Jan-09	5463.57		24.67		5438.90	NM	NM	NM	NM	NM	NM
TW-6	19-Aug-09	5463.57		24.82		5438.75	6.95	4.535	1.81	16.24	295.6	4.00
TW-6	19-Feb-10	5463.57		24.74		5438.83	NM	NM	NM	NM	NM	NM
TW-6	10-May-10	5463.57		24.54		5439.03	NM	NM	NM	NM	NM	NM
TW-6	18-Aug-10	5463.57		24.73		5438.84	NM	NM	NM	NM	NM	NM

TABLE 1

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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	15-Nov-10	5463.57		24.90		5438.67	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-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-9	16-Dec-08	5450.61		12.20		5438.41	6.90	3.473	2.27	14.53	15.6	1.25
TW-9	26-Jan-09	5450.61		12.05		5438.56	NM	NM	NM	NM	NM	NM
TW-9	20-Aug-09	5450.61		12.49		5438.12	7.57	2.397	1.33	16.93	269.2	2.50
TW-9	19-Feb-10	5450.61		11.99		5438.62	NM	NM	NM	NM	NM	NM
TW-9	10-May-10	5450.61		11.89		5438.72	NM	NM	NM	NM	NM	NM

TABLE 1

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

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-9	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-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-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-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

TABLE 1

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-12	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-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-14	16-Dec-08	5454.24		16.82		5437.42		Not Sampled - Sheen of NAPL present				
TW-14	26-Jan-09	5454.24	16.71	17.02	0.31	5437.48	NM	NM	NM	NM	NM	NM
TW-14	20-Aug-09	5454.24	16.89	17.02	0.13	5437.33		Not Sampled - NAPL present				
TW-14	11-Nov-09	5454.24	17.20	17.67	0.47	5436.96	NM	NM	NM	NM	NM	NM
TW-14	15-Feb-10	5454.24	16.98	17.22	0.24	5437.22	NM	NM	NM	NM	NM	NM
TW-14	11-May-10	5454.24		16.85	sheen	5437.39	7.25	3.49	0.11	16.95	214.6	NM
TW-14	18-Aug-10	5454.24	17.01	17.03	0.02	5437.23	NM	NM	NM	NM	NM	NM
TW-14	15-Nov-10	5454.24		17.17		5437.07	NM	NM	NM	NM	NM	NM

TABLE 1

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

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

TABLE 1

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

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-18	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-19	16-Dec-08	5458.49	22.15	22.62	0.47	5436.26	Not Sampled - NAPL Present					
TW-19	26-Jan-09	5458.49	22.01	22.57	0.56	5436.38	NM	NM	NM	NM	NM	NM
TW-19	13-Aug-09	5458.49	22.13	22.86	0.73	5436.23	Not Sampled - NAPL present					
TW-19	11-Nov-09	5458.49	TW damaged by demolition work									
TW-19	15-Feb-10	5458.49	TW damaged by demolition work									
TW-19	07-May-10	5458.49	17.45	17.52	0.07	5441.03	NM	NM	NM	NM	NM	NM
TW-19	18-Aug-10	5458.49		17.66	Sheen	5440.83	NM	NM	NM	NM	NM	NM
TW-19	15-Nov-10	5458.49	17.79	18.02	0.23	5440.66	NM	NM	NM	NM	NM	NM
TW-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

TABLE 1

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

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-20	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-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-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

TABLE 1

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

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-23	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-24	17-Dec-08	5444.79		10.97		5433.82	6.21	5.942	4.88	15.60	-64.3	1.25
TW-24	26-Jan-09	5444.79	11.84	11.85	0.01	5432.95	NM	NM	NM	NM	NM	NM
TW-24	21-Aug-09	5444.79	11.10	11.22	0.12	5433.67	Not Sampled - NAPL Present					
TW-24	13-Nov-09	5444.79	11.07	11.15	0.08	5433.71	NM	NM	NM	NM	NM	NM
TW-24	17-Feb-10	5444.79		10.78		5434.01	6.62	7.86	0.74	13.77	436.8	3.00
TW-24	11-May-10	5444.79		10.63		5434.16	7.05	4.70	0.33	14.39	229	3.75
TW-24	18-Aug-10	5444.79		11.09	Sheen	5433.70	NM	NM	NM	NM	NM	NM
TW-24	15-Nov-10	5444.79	11.17	11.30	0.13	5433.60	NM	NM	NM	NM	NM	NM
TW-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

TABLE 1

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

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-25	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-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-28	17-Dec-08	5449.24	15.37	15.96	0.59	5433.77	Not Sampled - NAPL Present					
TW-28	26-Jan-09	5449.24	15.28	15.79	0.51	5433.87	NM	NM	NM	NM	NM	NM
TW-28	13-Aug-09	5449.24	15.27	16.31	1.04	5433.79	Not Sampled - NAPL present					
TW-28	12-Nov-09	5449.24	15.35	16.74	1.39	5433.65	NM	NM	NM	NM	NM	NM
TW-28	15-Feb-10	5449.24	15.22	16.10	0.88	5433.87	NM	NM	NM	NM	NM	NM
TW-28	07-May-10	5449.24	15.08	15.47	0.39	5434.09	NM	NM	NM	NM	NM	NM
TW-28	18-Aug-10	5449.24	15.12	16.09	0.97	5433.95	NM	NM	NM	NM	NM	NM
TW-28	15-Nov-10	5449.24	15.49	16.67	1.18	5433.55	NM	NM	NM	NM	NM	NM
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

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)
Not Sampled - NAPL present												
TW-29	13-Aug-09	5441.87	9.22	10.06	0.84	5432.50						
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-30	18-Dec-08	5437.93		5.90		5432.03	6.46	6.328	6.25*	12.89	-66.2	1.25
TW-30	26-Jan-09	5437.93		5.69		5432.24	NM	NM	NM	NM	NM	NM
TW-30	21-Aug-09	5437.93		6.07		5431.86	6.61	7.238	5.52	18.52	304.0	5.50
TW-30	17-Feb-10	5437.93		5.65		5432.28	6.26	8.169	1.47	11.21	476.9	5.60
TW-30	11-May-10	5437.93		5.67		5432.26	6.77	5.188	0.76	12.56	238.8	3.75
TW-30	18-Aug-10	5437.93		5.99		5431.94	NM	NM	NM	NM	NM	NM
TW-30	16-Nov-10	5437.93		6.34		5431.59	6.96	6.832	0.61	15.28	-8.8	3.00
TW-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

TABLE 1

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

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-32	17-Dec-08	5441.61	7.22	8.79	1.57	5434.12						
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						
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-33	17-Dec-08	5445.85	12.96	13.02	0.06	5432.88						
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						
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-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

TABLE 1

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-34	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-35	18-Dec-08	5449.14		15.21		5433.93	7.04	7.929	4.39	14.98	-189.4	1.25
TW-35	26-Jan-09	5449.14		15.12		5434.02	NM	NM	NM	NM	NM	NM
TW-35	24-Aug-09	5449.14		15.29		5433.85	7.02	11.80	6.40	16.41	295.1	3.30
TW-35	18-Feb-10	5449.14		15.15		5433.99	7.20	11.52	2.91	12.99	-283.0	3.60
TW-35	12-May-10	5449.14		14.91		5434.23	7.17	6.714	1.91	12.77	197.4	3.75
TW-35	18-Aug-10	5449.14		15.08		5434.06	NM	NM	NM	NM	NM	NM
TW-35	17-Nov-10	5449.14		15.23		5433.91	7.13	7.175	0.72	15.97	-18.3	3.00
TW-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-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

TABLE 1

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

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-37	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-38	17-Dec-08	5442.11		9.55		5432.56	6.95	5.466	4.06	12.82	-179.3	1.25
TW-38	26-Jan-09	5442.11		11.36		5430.75	NM	NM	NM	NM	NM	NM
TW-38	21-Aug-09	5442.11	11.57	11.58	0.01	5430.54		Not Sampled - NAPL Present				
TW-38	12-Nov-09	5442.11	11.64	11.70	0.06	5430.46	NM	NM	NM	NM	NM	NM
TW-38	18-Feb-10	5442.11		11.28		5430.83	6.73	7.314	0.57	12.54	549.0	2.10
TW-38	12-May-10	5442.11		11.09		5431.02	7.06	4.741	2.37	12.83	205.3	3.75
TW-38	19-Aug-10	5442.11		11.30		5430.81	6.99	4.573	0.48	18.42	353.8	2.50
TW-38	16-Nov-10	5442.11		11.54		5430.57	7.10	4.657	0.79	16.96	-16.7	3.00
TW-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-40	18-Dec-08	5437.50		5.30		5432.20		Not Sampled - Sheen of 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-40	26-Jan-09	5437.50		7.27		5430.23	NM	NM	NM	NM	NM	NM
TW-40	13-Aug-09	5437.50	7.90	8.53	0.63	5429.49	Not Sampled - NAPL present					
TW-40	13-Nov-09	5437.50	7.93	8.49	0.56	5429.47	NM	NM	NM	NM	NM	NM
TW-40	16-Feb-10	5437.50	6.84	7.76	0.92	5430.50	NM	NM	NM	NM	NM	NM
TW-40	07-May-10	5437.50	6.78	7.90	1.12	5430.53	NM	NM	NM	NM	NM	NM
TW-40	18-Aug-10	5437.50	7.50	7.88	0.38	5429.93	NM	NM	NM	NM	NM	NM
TW-40	15-Nov-10	5437.50	7.97	8.51	0.54	5429.44	NM	NM	NM	NM	NM	NM
TW-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-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

TABLE 1

SUMMARY OF RECENT GROUNDWATER MEASUREMENTS AND WATER QUALITY DATA

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-43	16-Dec-08	5440.42		12.19		5428.23	6.35	6.716	1.01	14.39	7.0	1.25
TW-43	26-Jan-09	5440.42		12.10		5428.32	NM	NM	NM	NM	NM	NM
TW-43	24-Aug-09	5440.42		12.44		5427.98	6.94	8.834	6.92	17.73	204.1	3.00
TW-43	16-Feb-10	5440.42		12.11		5428.31	6.79	7.655	3.56	12.46	431.3	3.00
TW-43	12-May-10	5440.42		11.82		5428.60	7.01	4.736	1.60	12.89	225.4	3.75
TW-43	20-Aug-10	5440.42		12.29		5428.13	6.98	4.873	1.00	17.72	299.0	2.50
TW-43	16-Nov-10	5440.42		12.34		5428.08	6.94	5.273	0.84	16.58	-7.3	3.00
TW-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-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-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

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-46	15-Nov-10	TBS		7.41			NM	NM	NM	NM	NM	NM
TW-47	13-May-10	TBS		6.04			7.23	11.86	3.36	12.89	214.8	3.75
TW-47	20-Aug-10	TBS		6.67			7.20	11.46	1.16	20.71	241.0	0.50
TW-47	17-Nov-10	TBS		6.93			7.08	10.79	2.09	14.87	-15.4	0.50
TW-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-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-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
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

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	17-Nov-10	5428.97		5.17		5423.80	7.62	6.121	1.36	14.15	-46.2	3.00
MW-7	1-Feb-02	5435.28		5.32		37288.00						No Sample
MW-7	29-Jul-02	5435.28		6.11		37466.00						No Sample
MW-7	6-Jun-03	5435.28		9.06		37778.00						No Sample
MW-7	19-Jan-04	5435.28		9.06		38005.00	7.0	2.827	0.93	49.7		P
MW-7	25-May-04	5435.28		9.14		38132.00	6.8	3.76	0.27	63.2		3
MW-7	27-Jul-04	5435.28		9.08		38195.00	7.3	5.32		72.8		B
MW-7	28-Dec-04	5435.28		9.05		38349.00	7.8					MP
MW-7	31-Mar-05	5435.28		7.67		38442.00	6.5	3.011	0.5	52		MP
MW-7	19-Sep-05	5435.28		9.20		38614.00	7.0	4.802	0.41	70.8		
MW-7	4-Jan-06	5435.28		8.14		38721.00	7.0	3.625	0.48	14.5		3
MW-7	02-Jan-07	5435.28		8.75		39084.00	NM	NM	NM	NM		No Sample
MW-7	19-Dec-07	5435.28		8.43		39435.00	NM	NM	NM	NM		No Sample
MW-7	17-May-10	5435.28		8.5		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-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

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

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MW-20	25-May-04	5430.45		5.90			7.1	4.01	1.2	72.3		1.5
MW-20	27-Jul-04	5430.45		6.29			7.0	5.12		66.1		B
MW-20	29-Dec-04	5430.45		6.07								MP
MW-20	1-Apr-05	5430.45		5.69			6.5	2.378	0.55	54.4		
MW-20	19-Sep-05	5430.45		6.02			7.0	3.466	0.37	66.1		
MW-20	4-Jan-06	5430.45		5.85			7.0	3.47	0.6	12.3		3
MW-20	28-Jun-06	5430.45		6.18			6.7	4.979	0.34	17.8		3
MW-20	28-Dec-06	5430.45		5.50			7.0	8.505	0.51	8.9		3
MW-20	2-Jul-07	5430.45		5.75			7.0	4.841	1.32	16.09		2.6
MW-20	18-Dec-07	5430.45		5.89			7.05	5.621	2.89	12.10		1.25
MW-20	21-Jan-09	5430.45		5.86			6.73	5.996	3.58	8.34		0.5
MW-20	18-Feb-10	5430.45		5.81		5424.64	6.67	7.249	3.67	8.20	395.0	2.50
MW-20	13-May-10	5430.45		5.52		5424.93	6.96	4.948	2.09	10.89	216.9	3.75
MW-20	20-Aug-10	5430.45		6.01		5424.44	7.12	4.836	1.09	18.44	236.4	2.50
MW-20	17-Nov-10	5430.45		6.05		5424.4	6.94	5.167	0.40	13.63	-7.7	0.50
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

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

Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW Elev. (ft)	pH	Conductivity (mS)	Dissolved Oxygen (mg/L)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MW-21	29-Dec-04	5428.62		3.36								MP
MW-21	1-Apr-05	5428.62		2.77			6.7	5.747	0.28	50.9		
MW-21	19-Sep-05	5428.62		3.84			7.2	8.598	0.39	67.8		
MW-21	4-Jan-06	5428.62		3.27			7.1	6.118	0.77	11.9		3
MW-21	28-Jun-06	5428.62		3.81			6.8	9.223	0.32	19.8		3
MW-21	02-Jan-07	5428.62		3.23			6.7	9.393	0.9	8.2		3
MW-21	02-Jul-07	5428.62		3.54			7.0	9.066	0.86	18.74		2.7
MW-21	18-Dec-07	5428.62		3.54			7.12	8.043	0.62	12.90		3.25
MW-21	19-Dec-08	5428.62		3.43			6.79	7.562	9.78	11.04		1.25
MW-21	18-Feb-10	5428.62		2.86		5425.76	6.82	9.049	8.21	7.91	367.2	3.00
MW-21	13-May-10	5428.62		2.69		5425.93	7.06	7.075	1.74	12.41	224.9	3.75
MW-21	20-Aug-10	5428.62		3.31		5425.31	7.06	6.836	1.09	21.23	234.4	NM
MW-21	17-Nov-10	5428.62		3.68		5424.94	7.02	7.817	0.56	15.42	-12.0	0.50

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	Naphthalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
Sample Method		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
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-8	16-Dec-08	120	15	330	950	<5.0	92	8.9	1.4	<5.0	NA
TW-8	19-Aug-09	26	<1.0	82	130	<1.0	<2.0	1.7	<1.0	<5.0	4,490

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
Sample Method											
EPA Method 8260		EPA Method 8015M						2540C			
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
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									
TW-13	7-May-10	Not Sampled-NAPL present									
TW-13	18-Aug-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
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	15-Nov-10	Not Sampled-NAPL present									
TW-14	17-Dec-08	Not Sampled-NAPL present									
TW-14	21-Aug-09	Not Sampled-NAPL present									
TW-14	17-Feb-10	Not Sampled-NAPL present									
TW-14	11-May-10	Not Sampled-NAPL present (sheen)									
TW-14	18-Aug-10	Not Sampled-NAPL present									
TW-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
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

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
Sample Method											2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
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-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-21	17-Dec-08	Not Sampled-NAPL present									
TW-21	21-Aug-09	Not Sampled-NAPL present									
TW-21	17-Feb-10	Not Sampled-Surface Casing Damaged									
TW-21	7-May-10	Not Sampled-Surface Casing Damaged									
TW-21	18-Aug-10	Not Sampled-Surface Casing Damaged									
TW-21	15-Nov-10	Not Sampled-Surface Casing Damaged									
TW-22	17-Dec-08	Not Sampled-NAPL present									
TW-22	21-Aug-09	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
Sample Method		EPA Method 8260					EPA Method 8015M				2540C
NM WQCC STANDARD	10	750	750	620	100	30	NE	NE	NE	NE	1,000
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-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-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-26	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	Ethylbenzene	Xylenes	MTBE	Naphthalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids
	Sample Method										
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-26	21-Aug-09										
TW-26	17-Feb-10										
TW-26	7-May-10										
TW-26	18-Aug-10										
TW-26	15-Nov-10										
TW-28	17-Dec-08										
TW-28	21-Aug-09										
TW-28	17-Feb-10										
TW-28	7-May-10										
TW-28	18-Aug-10										
TW-28	15-Nov-10										
TW-29	17-Dec-08										
TW-29	21-Aug-09										
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										
TW-29	18-Aug-10										
TW-29	15-Nov-10										
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

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
Sample Method		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			
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
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									
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-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									

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
Sample Method		EPA Method 8260					EPA Method 8015M				
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-34	18-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<1.0	<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	<1.0	<0.050	<1.0	<5.0	NA
TW-35	24-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	6,700
TW-35	18-Feb-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0	6,870
TW-35	12-May-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0	6,250
TW-35	17-Nov-10	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0	6,770
TW-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-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

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
Sample Method		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
EPA Method 8260											
EPA Method 8015M											
2540C											
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-37	16-Nov-10	280	<1.0	58	46	120	<2.0	1.9	2.3	<5.0	3,380
TW-38	17-Dec-08	140	<5.0	36	220	190	<5.0	0.99	<1.0	<5.0	NA
TW-38	21-Aug-09	Not Sampled-NAPL present									
TW-38	18-Feb-10	26	<1.0	6.3	18	88	<2.0	0.50	<1.0	<5.0	4,070
TW-38	12-May-10	63	<1.0	15	50	110	3.5	0.67	<1.0	<5.0	4,210
TW-38	19-Aug-10	140	<1.0	30	58	95	2.2	1.20	<1.0	<5.0	3,910
TW-38	16-Nov-10	140	<1.0	41	71	83	<2.0	1.1	<1.0	<5.0	3,930
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-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									

TABLE 2

Well ID	Date Sampled	Benzene	Toluene	Ethyl- benzene	Xylenes	MTBE	Naph- thalene	GRO C6-C10	DRO C10-C22	MRO	Total Dissolved Solids	
		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	
Sample Method		EPA Method 8260					EPA Method 8015M					2540C
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000	
TW-41	18-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	
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-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-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	

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 µg/L	Toluene µg/L	Ethyl- benzene µg/L	Xylenes µg/L	MTBE µg/L	Naph- thalene µg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L	Total Dissolved Solids mg/L
Sample Method		EPA Method 8260						EPA Method 8015M			
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
TW-44	18-Feb-10	Not Sampled-NAPL present									
TW-44	7-May-10	Not Sampled-NAPL present									
TW-44	18-Aug-10	Not Sampled-NAPL present									
TW-44	15-Nov-10	Not Sampled-NAPL present									
TW-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-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-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
TW-49	17-Nov-10	<1.0	<1.0	<1.0	<1.5	28	<2.0	0.12	<1.0	<5.0	7,470

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
Sample Method		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
		EPA Method 8260						EPA Method 8015M			
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
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
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
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

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
Sample Method		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
EPA Method 8260											
Sample Method		10	750	750	620	100	30	NE	NE	NE	2540C
EPA Method 8015M											
NM WQCC STANDARD											1,000
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
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-21	30-Jan-02	<0.5	<0.5	<0.5	<1.5	44	NA	NA	NA	NA	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
Sample Method		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L
EPA Method 8260		EPA Method 8015M						2540C			
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE	1,000
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

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

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 µg/L	Toluene µg/L	Ethyl- benzene µg/L	Xylenes µg/L	MTBE µg/L	Naph- thalene µg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L	Total Dissolved Solids mg/L
Sample Method		EPA Method 8260									
NM WQCC STANDARD	10	750	750	750	620	100	30	NE	NE	NE	2540C 1,000

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 3

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

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

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

Well ID	Sample Date	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Analytical Method		6010B	6010B	6010B	6010B	6010B	7470	6010B	6010B
NM WQCC Standard		0.10	1.0	0.01	0.05	0.05	0.002	0.05	0.005
TW-16	20-Aug-09	<0.020	0.047	<0.0020	<0.0060	0.0095	<0.00020	<0.050	<0.0050
TW-17	21-Aug-09	0.063	<0.020	<0.0020	<0.0060	0.0083	<0.00020	<0.050	<0.0050
TW-18	21-Aug-09	<0.020	<0.020	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-18	16-Nov-10	<0.020	<0.020	<0.0020	<0.0060	0.0055	<0.00020	<0.050	<0.0050
TW-23	21-Aug-09	<0.020	0.023	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-30	21-Aug-09	0.032	0.039	<0.0020	<0.0060	0.019	<0.00020	<0.050	<0.0050
TW-30	16-Nov-10	<0.020	<0.020	<0.0020	<0.0060	0.0071	<0.00020	<0.050	<0.0050
TW-31	21-Aug-09	0.066	0.064	<0.0020	<0.0060	0.015	<0.00020	<0.050	<0.0050
TW-31	16-Nov-10	0.034	0.025	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-34	24-Aug-09	<0.020	<0.020	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-35	24-Aug-09	<0.020	<0.020	<0.0020	<0.0060	0.0061	<0.00020	<0.050	<0.0050
TW-35	17-Nov-10	<0.020	<0.020	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-37	21-Aug-09	<0.020	0.041	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-37	16-Nov-10	<0.020	0.061	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-38	16-Nov-10	<0.020	0.023	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-39	21-Aug-09	<0.020	0.08	<0.0020	0.0077	<0.0050	<0.00020	<0.050	<0.0050

TABLE 3

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

Well ID	Sample Date	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Analytical Method		6010B	6010B	6010B	6010B	6010B	7470	6010B	6010B
NM WQCC Standard		0.10	1.0	0.01	0.05	0.05	0.002	0.05	0.005
TW-39	16-Nov-10	<0.020	0.029	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-41	24-Aug-09	<0.020	0.11	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-41	16-Nov-10	<0.020	0.069	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-42	24-Aug-09	<0.020	0.042	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-42	16-Nov-10	<0.020	<0.020	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-43	24-Aug-09	<0.020	<0.020	<0.0020	<0.0060	0.0061	<0.00020	<0.050	<0.0050
TW-43	16-Nov-10	<0.020	<0.020	<0.0020	<0.0060	0.0073	<0.00020	<0.050	<0.0050
TW-44	24-Aug-09	<0.020	0.043	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-45	17-Nov-10	0.070	<0.020	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
TW-47	17-Nov-10	<0.10	<0.10	<0.010	<0.030	<0.025	<0.00020	<0.25	<0.025
TW-49	17-Nov-10	<0.10	<0.10	<0.010	<0.030	<0.025	<0.00020	<0.25	<0.025
MW-5	17-Nov-10	<0.020	<0.020	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
MW-20	17-Nov-10	<0.020	0.02	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050
MW-21	17-Nov-10	0.040	<0.020	<0.0020	<0.0060	<0.0050	<0.00020	<0.050	<0.0050

Notes: < mg/L Analyte not detected above listed method limit
Milligrams per liter (ppm)

TABLE 4

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

Well ID	Sample Date	Calcium	Magnesium	Potassium	Sodium	Bromide	Chloride	Fluoride	Sulfate	Specific Conductance	Hardness as (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-8	20-Aug-09	450	57	3.6	910	1.3	190	0.67	2,600	4,700	1,400	4,490
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
TW-16	20-Aug-09	360	32	8.5	1,100	1.1	150	0.75	2,600	4,800	1,000	4,240

TABLE 4

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

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Sample Date	Calcium	Magnesium	Potassium	Sodium	Bromide	Chloride	Fluoride	Sulfate	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 4

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

Well ID	Sample Date	Calcium	Magnesium	Potassium	Sodium	Bromide	Chloride	Fluoride	Sulfate	Specific Conductance	Hardness as (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-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-38	16-Nov-10	490	45	3.5	700	0.38	210	0.77	1,900	4,400	1,400	3,930
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-41	24-Aug-19	330	57	6.5	1,000	1.7	970	<0.50	500	4,600	1,100	3,510

TABLE 4

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

Well ID	Sample Date	Calcium	Magnesium	Potassium	Sodium	Bromide	Chloride	Fluoride	Sulfate	Specific Conductance	Hardness as (CaCO ₃)	TDS
<i>Analytical Method</i>		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmhos/cm	mg/L	mg/L
NM WQCC Standard		6010B	6010B	6010B	6010B	300.0	300.0	300.0	300.0	120.1	6010B	SM 2540C
TW-41	16-Nov-10	NE	NE	NE	NE	NE	250	1.6	600	NE	NE	1,000
		300	58	5.8	910	1.0	1,100	0.23	610	5,200	980	3,670
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-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-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
MW-5	17-Nov-10	150	29	6.1	1,200	0.77	310	<2.0	3,000	5,400	500	4,630
MW-20	17-Nov-10	410	47	4.1	840	0.72	430	<0.50	2,000	4,700	1,200	3,950
MW-21	17-Nov-10	460	64	7.4	1,400	0.87	820	0.64	3,500	6,700	1,400	6,270

TABLE 4

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

Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Sample Date	Calcium	Magnesium	Potassium	Sodium	Bromide	Chloride	Fluoride	Sulfate	Specific Conductance	Hardness as (CaCO ₃)	TDS
Analytical Method		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	µmhos/cm	mg/L	mg/L
NM WQCC Standard		6010B	6010B	6010B	6010B	300.0	300.0	300.0	300.0	120.1	6010B	SM 2540C
		NE	NE	NE	NE	NE	250	1.6	600	NE	NE	1,000

Notes:

< Analyte not detected above listed method limit

NE Not established

mg/L Milligrams per liter (ppm)

µmhos/cm Micromhos per centimeter

TABLE 5
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

<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>
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-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-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-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-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-6	03-Mar-10	TBD		19.66	
MPE-6	10-May-10	TBD		NM	
MPE-6	17-Aug-10	TBD		19.70	
MPE-6	11-Nov-10	TBD		19.91	
MPE-7	03-Mar-10	TBD		20.46	
MPE-7	10-May-10	TBD		NM	

TABLE 5
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-7	17-Aug-10	TBD		20.49	
MPE-7	11-Nov-10	TBD		20.68	
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-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-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-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-12	03-Mar-10	TBD		22.34	
MPE-12	10-May-10	TBD		22.20	
MPE-12	17-Aug-10	TBD		22.45	
MPE-12	11-Nov-10	TBD	NM-Roots in Well		
MPE-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

TABLE 5
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-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-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-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-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-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	
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-21	03-Mar-10	TBD	19.88	19.99	0.11
MPE-21	18-May-10	TBD		19.50	

TABLE 5
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-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-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-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-24	03-Mar-10	TBD		22.69	
MPE-24	10-May-10	TBD		22.53	
MPE-24	17-Aug-10	TBD		22.70	
MPE-24	11-Nov-10	TBD		22.88	
MPE-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-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

TABLE 5
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-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-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-29	03-Mar-10	TBD		20.54	
MPE-29	10-May-10	TBD		20.39	
MPE-29	17-Aug-10	TBD		20.73	
MPE-29	11-Nov-10	TBD		21.72	
MPE-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-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-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-34	03-Mar-10	TBD		22.16	
MPE-34	10-May-10	TBD		22.01	
MPE-34	17-Aug-10	TBD		22.20	

TABLE 5
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-34	12-Nov-10	TBD		22.37	
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-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-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-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
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	

TABLE 5
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-40	18-Jun-10	TBD		17.46	
MPE-40	17-Aug-10	TBD		17.63	
MPE-40	12-Nov-10	TBD		17.83	
MPE-41	18-Jun-10	TBD		18.14	
MPE-41	17-Aug-10	TBD	NM-Attached to RSI Unit		
MPE-41	12-Nov-10	TBD		18.51	
MPE-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-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-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-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-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-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

TABLE 5
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-49	18-Jun-10	TBD		19.13	
MPE-49	17-Aug-10	TBD		19.44	
MPE-49	12-Nov-10	TBD		19.32	
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-51	18-Jun-10	TBD		20.70	
MPE-51	17-Aug-10	TBD		20.68	
MPE-51	12-Nov-10	TBD		20.99	
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-53	18-Jun-10	TBD		19.23	
MPE-53	17-Aug-10	TBD		19.38	
MPE-53	12-Nov-10	TBD		19.55	
MPE-54	18-Jun-10	TBD		18.85	
MPE-54	17-Aug-10	TBD		19.02	
MPE-54	12-Nov-10	TBD		19.19	
MPE-55	18-Jun-10	TBD		18.36	
MPE-55	17-Aug-10	TBD		18.51	
MPE-55	12-Nov-10	TBD		18.70	
MPE-56	18-Jun-10	TBD		13.80	

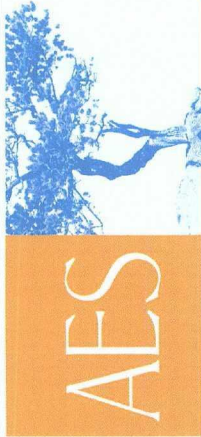
TABLE 5
SUMMARY OF RECENT GROUNDWATER MEASUREMENTS OF PHASE 1 , 2, and 3 MPE WELLS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

<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-56	17-Aug-10	TBD		13.94	
MPE-56	12-Nov-10	TBD		14.14	
MPE-57	18-Jun-10	TBD		--	
MPE-57	17-Aug-10	TBD		14.63	
MPE-57	12-Nov-10	TBD		14.75	
MPE-58	18-Jun-10	TBD		--	
MPE-58	17-Aug-10	TBD		14.86	
MPE-58	12-Nov-10	TBD		14.99	



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. Laneman	DATE REVISED: December 2, 2010
CHECKED BY: R. Kennemer	DATE CHECKED: January 10, 2011
APPROVED BY: R. Kennemer	DATE APPROVED: January 10, 2011

LEGEND
 MONITOR WELL LOCATIONS

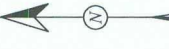
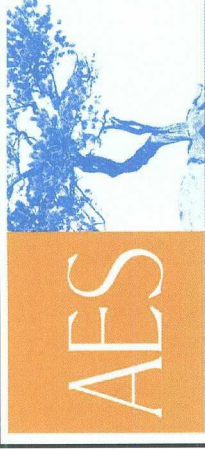

SCALE
0 100 200
50
(1 INCH = 200 FEET)

FIGURE 2

**GROUNDWATER ELEVATION
CONTOURS
NOVEMBER 2010**

THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO



Animas Environmental Services, LLC

DRAWN BY: N. Willis	DATE DRAWN: February 2, 2009
REVISIONS BY: C. Llameman	DATE REVISED: December 2, 2010
CHECKED BY: R. Kennemer	DATE CHECKED: January 10, 2011
APPROVED BY: R. Kennemer	DATE APPROVED: January 10, 2011

LEGEND

- MONITOR WELL LOCATIONS
- 5440.94 GROUNDWATER ELEVATION IN FEET (AMSL)
- 5439— GROUNDWATER ELEVATION CONTOUR IN FEET (AMSL)

NOTE: GROUNDWATER MEASUREMENTS WERE MADE ON NOVEMBER 15 - 17, 2010. LOCATIONS OF TW-45 THROUGH TW-50 ARE APPROXIMATE.

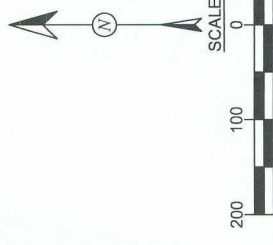


FIGURE 3

CONTOURS

NOVEMBER 2010

626 ROAD 5500

BLOOMFIELD, NEW MEXICO



Animas Environmental Services, LLC

DRAWN BY: _____ **DATE DRAWN:** _____

N. Willis
February 2, 2009

REVISIONS BY: _____ DATE REVISED: _____

C. Lameman	December 2, 2010
------------	------------------

CHECKED BY:	DATE CHECKED:
-------------	---------------

DATE APPROVED:	APPROVED BY:
----------------	--------------

R. Kennemer January 10, 2011

LEGEND

 MONITOR WELL LOCATIONS

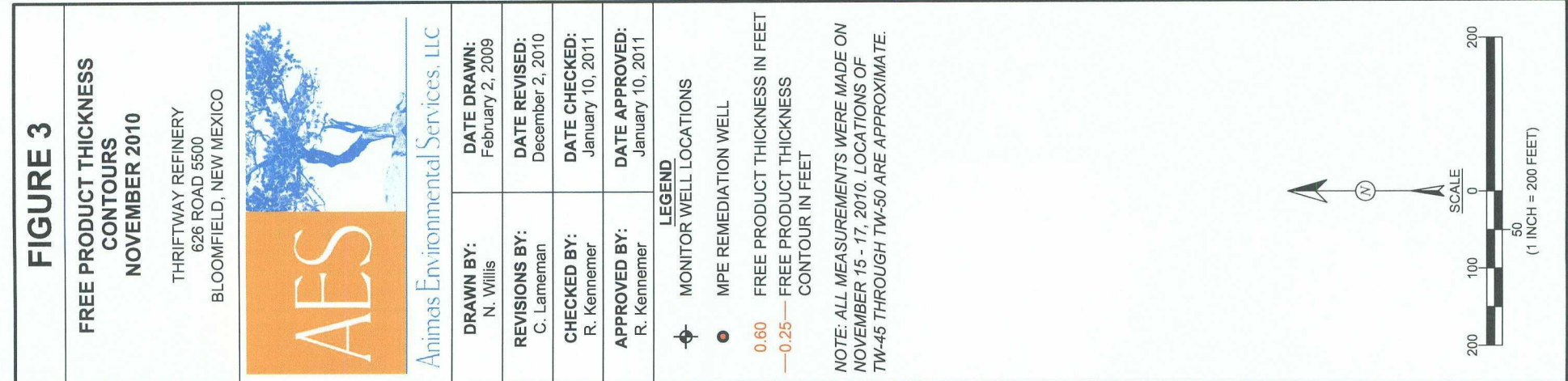
● MPE REMEDIATION WELL

0.60 FREE PRODUCT THICKNESS IN FEET

—0.25— FREE PRODUCT THICKNESS

CONTOUR IN FEET

NOTE: ALL MEASUREMENTS WERE MADE ON NOVEMBER 15 - 17, 2010. LOCATIONS OF TW-45 THROUGH TW-50 ARE APPROXIMATE.



NOTE: ALL MEASUREMENTS WERE MADE ON NOVEMBER 15 - 17, 2010. LOCATIONS OF TW-45 THROUGH TW-50 ARE APPROXIMATE.

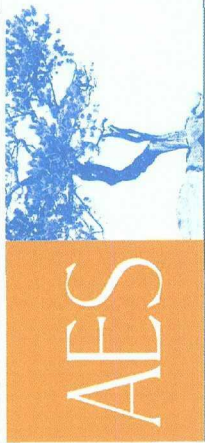


30
(1 INCH = 200 FEET)

FIGURE 4

DISSOLVED BENZENE
CONCENTRATION CONTOURS
NOVEMBER 2010

THRIFTWAY REFINERY
626 ROAD 5500
BLOOMFIELD, NEW MEXICO

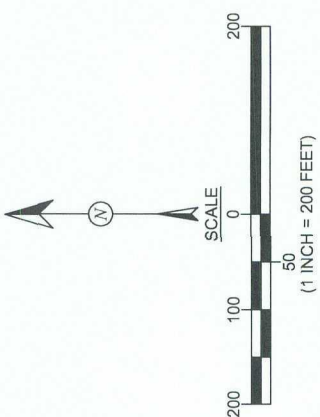


Animas Environmental Services, LLC

DRAWN BY: N. Willis	DATE DRAWN: February 2, 2009
REVISIONS BY: C. Lameman	DATE REVISED: December 16, 2010
CHECKED BY: R. Kennemer	DATE CHECKED: January 10, 2011
APPROVED BY: R. Kennemer	DATE APPROVED: January 10, 2011

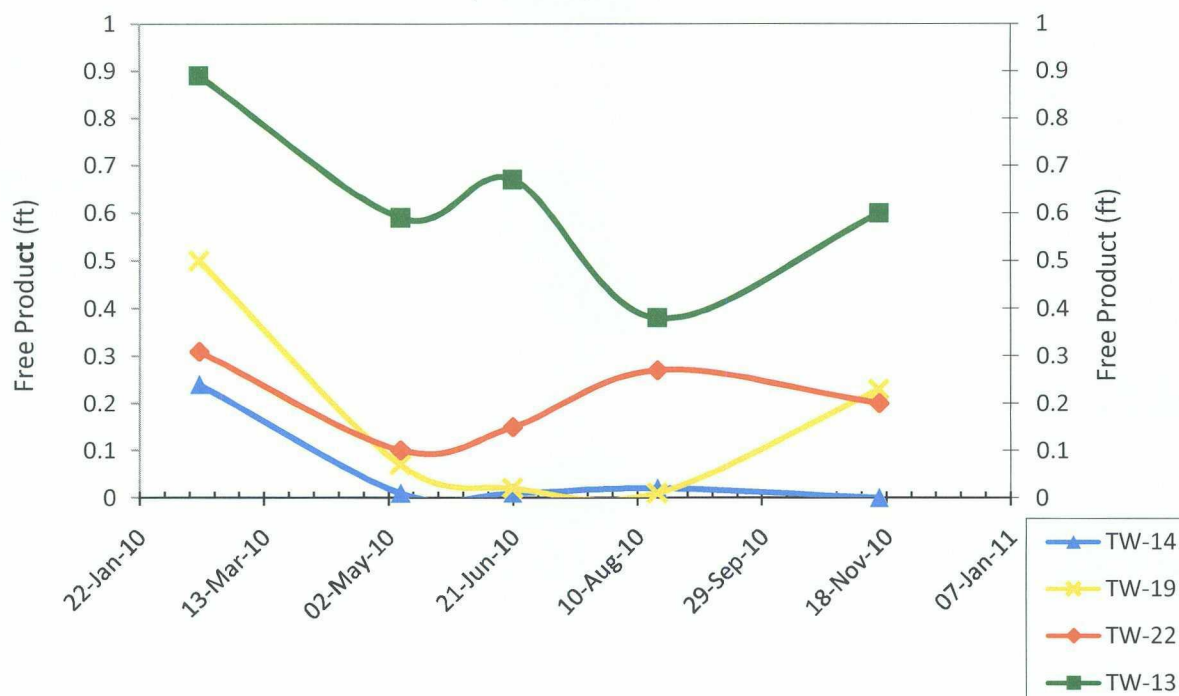
- LEGEND**
- MONITOR WELL LOCATIONS
 - MPE REMEDIATION WELL
 - FREE PRODUCT PLUME
 - BENZENE CONCENTRATIONS IN µg/L
 - 200 — BENZENE CONCENTRATION CONTOUR IN µg/L
 - NS NOT SAMPLED

NOTE: ALL SAMPLES WERE COLLECTED ON NOVEMBER 15 - 17, 2010. 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

Wednesday, December 08, 2010

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.: 1011766

Dear Ross Kennemer:

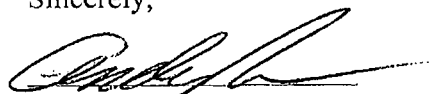
Hall Environmental Analysis Laboratory, Inc. received 10 sample(s) on 11/18/2010 for the analyses presented in the following report.

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.

Reporting limits are determined by EPA methodology.

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: 08-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011766
Project: TW 810 Refinery
Lab ID: 1011766-01

Client Sample ID: TW-18
Collection Date: 11/16/2010 10:00:00 AM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/20/2010 9:15:03 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/20/2010 9:15:03 PM
Surr: DNOP	118	86.9-151		%REC	1	11/20/2010 9:15:03 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.12	0.050		mg/L	1	11/25/2010 1:12:29 AM
Surr: BFB	106	84.5-118		%REC	1	11/25/2010 1:12:29 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	1.0	0.10		mg/L	1	11/29/2010 12:49:53 PM
Chloride	54	10		mg/L	20	11/29/2010 1:42:08 PM
Bromide	0.28	0.10		mg/L	1	11/29/2010 12:49:53 PM
Sulfate	3700	50		mg/L	100	12/1/2010 2:51:19 AM
EPA 6010B: HARDNESS						Analyst: RAGS
Hardness (As CaCO3)	1400	1.0		mg/L	1	11/30/2010
EPA METHOD 7470: MERCURY						Analyst: ELS
Mercury	ND	0.00020		mg/L	1	11/29/2010 12:26:33 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: RAGS
Calcium	490	20		mg/L	20	12/3/2010 11:01:40 AM
Magnesium	52	1.0		mg/L	1	11/30/2010 10:40:05 AM
Potassium	4.6	1.0		mg/L	1	11/30/2010 10:40:05 AM
Sodium	910	20		mg/L	20	12/3/2010 11:01:40 AM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: RAGS
Arsenic	ND	0.020		mg/L	1	11/30/2010 2:01:56 PM
Barium	ND	0.020		mg/L	1	11/30/2010 2:01:56 PM
Cadmium	ND	0.0020		mg/L	1	11/30/2010 2:01:56 PM
Chromium	ND	0.0060		mg/L	1	11/30/2010 2:01:56 PM
Lead	0.0055	0.0050		mg/L	1	11/30/2010 2:01:56 PM
Selenium	ND	0.050		mg/L	1	11/30/2010 2:01:56 PM
Silver	ND	0.0050		mg/L	1	11/30/2010 2:01:56 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	1.8	1.0		µg/L	1	11/21/2010 4:06:15 AM
Toluene	5.5	1.0		µg/L	1	11/21/2010 4:06:15 AM
Ethylbenzene	15	1.0		µg/L	1	11/21/2010 4:06:15 AM
Methyl tert-butyl ether (MTBE)	1.6	1.0		µg/L	1	11/21/2010 4:06:15 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

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011766
Project: TW 810 Refinery
Lab ID: 1011766-01

Client Sample ID: TW-18
Collection Date: 11/16/2010 10:00:00 AM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,2,4-Trimethylbenzene	3.9	1.0		µg/L	1	11/21/2010 4:06:15 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
Naphthalene	ND	2.0		µg/L	1	11/21/2010 4:06:15 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 4:06:15 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 4:06:15 AM
Acetone	45	10		µg/L	1	11/21/2010 4:06:15 AM
Bromobenzene	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
Bromoform	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
Bromomethane	ND	3.0		µg/L	1	11/21/2010 4:06:15 AM
2-Butanone	ND	10		µg/L	1	11/21/2010 4:06:15 AM
Carbon disulfide	ND	10		µg/L	1	11/21/2010 4:06:15 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
Chlorobenzene	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
Chloroethane	ND	2.0		µg/L	1	11/21/2010 4:06:15 AM
Chloroform	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
Chloromethane	ND	3.0		µg/L	1	11/21/2010 4:06:15 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/21/2010 4:06:15 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
Dibromomethane	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/21/2010 4:06:15 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
2-Hexanone	ND	10		µg/L	1	11/21/2010 4:06:15 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/21/2010 4:06:15 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

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Dec-10

CLIENT: Animas Environmental Services
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Client Sample ID: TW-18
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 Date Received: 11/18/2010
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Methylene Chloride	ND	3.0		µg/L	1	11/21/2010 4:06:15 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
n-Propylbenzene	2.4	1.0		µg/L	1	11/21/2010 4:06:15 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
Styrene	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/21/2010 4:06:15 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/21/2010 4:06:15 AM
Vinyl chloride	ND	1.0		µg/L	1	11/21/2010 4:06:15 AM
Xylenes, Total	ND	1.5		µg/L	1	11/21/2010 4:06:15 AM
Surr: 1,2-Dichloroethane-d4	100	77.7-113		%REC	1	11/21/2010 4:06:15 AM
Surr: 4-Bromofluorobenzene	105	76.4-106		%REC	1	11/21/2010 4:06:15 AM
Surr: Dibromofluoromethane	99.4	91.6-125		%REC	1	11/21/2010 4:06:15 AM
Surr: Toluene-d8	102	92.3-107		%REC	1	11/21/2010 4:06:15 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: IC
Specific Conductance	5000	0.010		µmhos/cm	1	11/23/2010 12:57:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	4790	40.0		mg/L	1	11/26/2010 8:21:00 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: 08-Dec-10

CLIENT:	Animas Environmental Services	Client Sample ID:	TW-30
Lab Order:	1011766	Collection Date:	11/16/2010 10:45:00 AM
Project:	TW 810 Refinery	Date Received:	11/18/2010
Lab ID:	1011766-02	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE Analyst: JB						
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/20/2010 9:49:10 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/20/2010 9:49:10 PM
Surr: DNOP	119	86.9-151		%REC	1	11/20/2010 9:49:10 PM
EPA METHOD 8015B: GASOLINE RANGE Analyst: NSB						
Gasoline Range Organics (GRO)	0.15	0.050		mg/L	1	11/25/2010 1:41:22 AM
Surr: BFB	104	84.5-118		%REC	1	11/25/2010 1:41:22 AM
EPA METHOD 300.0: ANIONS Analyst: SRM						
Fluoride	0.54	0.10		mg/L	1	11/29/2010 1:59:33 PM
Chloride	1400	50		mg/L	100	12/1/2010 3:02:33 AM
Bromide	1.9	0.10		mg/L	1	11/29/2010 1:59:33 PM
Sulfate	2100	50		mg/L	100	12/1/2010 3:02:33 AM
EPA 6010B: HARDNESS Analyst: RAGS						
Hardness (As CaCO3)	1600	1.0		mg/L	1	11/30/2010
EPA METHOD 7470: MERCURY Analyst: ELS						
Mercury	ND	0.00020		mg/L	1	11/29/2010 12:28:22 PM
EPA METHOD 6010B: DISSOLVED METALS Analyst: RAGS						
Calcium	550	20		mg/L	20	12/3/2010 11:04:06 AM
Magnesium	60	1.0		mg/L	1	11/30/2010 10:44:30 AM
Potassium	8.8	1.0		mg/L	1	11/30/2010 10:44:30 AM
Sodium	1200	20		mg/L	20	12/3/2010 11:04:06 AM
EPA 6010B: TOTAL RECOVERABLE METALS Analyst: RAGS						
Arsenic	ND	0.020		mg/L	1	11/30/2010 2:06:05 PM
Barium	ND	0.020		mg/L	1	11/30/2010 2:06:05 PM
Cadmium	ND	0.0020		mg/L	1	11/30/2010 2:06:05 PM
Chromium	ND	0.0050		mg/L	1	11/30/2010 2:06:05 PM
Lead	0.0071	0.0050		mg/L	1	11/30/2010 2:06:05 PM
Selenium	ND	0.050		mg/L	1	11/30/2010 2:06:05 PM
Silver	ND	0.0050		mg/L	1	11/30/2010 2:06:05 PM
EPA METHOD 8260B: VOLATILES Analyst: RAA						
Benzene	3.8	1.0		µg/L	1	11/21/2010 4:33:54 AM
Toluene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
Ethylbenzene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
Methyl tert-butyl ether (MTBE)	14	1.0		µg/L	1	11/21/2010 4:33:54 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

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Dec-10

CLIENT:	Animas Environmental Services	Client Sample ID:	TW-30
Lab Order:	1011766	Collection Date:	11/16/2010 10:45:00 AM
Project:	TW 810 Refinery	Date Received:	11/18/2010
Lab ID:	1011766-02	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
Naphthalene	ND	2.0		µg/L	1	11/21/2010 4:33:54 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 4:33:54 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 4:33:54 AM
Acetone	ND	10		µg/L	1	11/21/2010 4:33:54 AM
Bromobenzene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
Bromoform	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
Bromomethane	ND	3.0		µg/L	1	11/21/2010 4:33:54 AM
2-Butanone	ND	10		µg/L	1	11/21/2010 4:33:54 AM
Carbon disulfide	ND	10		µg/L	1	11/21/2010 4:33:54 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
Chlorobenzene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
Chloroethane	ND	2.0		µg/L	1	11/21/2010 4:33:54 AM
Chloroform	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
Chloromethane	ND	3.0		µg/L	1	11/21/2010 4:33:54 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/21/2010 4:33:54 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
Dibromomethane	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
1,2-Dichlorobenzene	1.3	1.0		µg/L	1	11/21/2010 4:33:54 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/21/2010 4:33:54 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
2-Hexanone	ND	10		µg/L	1	11/21/2010 4:33:54 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/21/2010 4:33:54 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

Page 5 of 29

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Dec-10

CLIENT: Animas Environmental Services **Client Sample ID:** TW-30
Lab Order: 1011766 **Collection Date:** 11/16/2010 10:45:00 AM
Project: TW 810 Refinery **Date Received:** 11/18/2010
Lab ID: 1011766-02 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Methylene Chloride	ND	3.0		µg/L	1	11/21/2010 4:33:54 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
Styrene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/21/2010 4:33:54 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/21/2010 4:33:54 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/21/2010 4:33:54 AM
Vinyl chloride	9.7	1.0		µg/L	1	11/21/2010 4:33:54 AM
Xylenes, Total	ND	1.5		µg/L	1	11/21/2010 4:33:54 AM
Surr: 1,2-Dichloroethane-d4	100	77.7-113		%REC	1	11/21/2010 4:33:54 AM
Surr: 4-Bromofluorobenzene	108	76.4-106	S	%REC	1	11/21/2010 4:33:54 AM
Surr: Dibromofluoromethane	104	91.6-125		%REC	1	11/21/2010 4:33:54 AM
Surr: Toluene-d8	98.8	92.3-107		%REC	1	11/21/2010 4:33:54 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: IC
Specific Conductance	6500	0.010		µmhos/cm	1	11/23/2010 12:59:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	5630	100		mg/L	1	11/26/2010 8:21:00 PM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Dec-10

CLIENT:	Animas Environmental Services	Client Sample ID:	TW-31
Lab Order:	1011766	Collection Date:	11/16/2010 11:18:00 AM
Project:	TW 810 Refinery	Date Received:	11/18/2010
Lab ID:	1011766-03	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/20/2010 10:23:18 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/20/2010 10:23:18 PM
Surr: DNOP	116	86.9-151		%REC	1	11/20/2010 10:23:18 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	11/25/2010 2:10:19 AM
Surr: BFB	100	84.5-118		%REC	1	11/25/2010 2:10:19 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	0.67	0.10		mg/L	1	11/29/2010 3:26:36 PM
Chloride	750	50		mg/L	100	12/1/2010 3:13:47 AM
Bromide	0.65	0.10		mg/L	1	11/29/2010 3:26:36 PM
Sulfate	2000	50		mg/L	100	12/1/2010 3:13:47 AM
EPA 6010B: HARDNESS						Analyst: RAGS
Hardness (As CaCO3)	1600	1.0		mg/L	1	11/30/2010
EPA METHOD 7470: MERCURY						Analyst: ELS
Mercury	ND	0.00020		mg/L	1	11/29/2010 12:30:11 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: RAGS
Calcium	520	20		mg/L	20	12/3/2010 11:06:31 AM
Magnesium	66	1.0		mg/L	1	11/30/2010 10:48:48 AM
Potassium	6.9	1.0		mg/L	1	11/30/2010 10:48:48 AM
Sodium	940	20		mg/L	20	12/3/2010 11:06:31 AM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: RAGS
Arsenic	0.034	0.020		mg/L	1	11/30/2010 2:10:11 PM
Barium	0.025	0.020		mg/L	1	11/30/2010 2:10:11 PM
Cadmium	ND	0.0020		mg/L	1	11/30/2010 2:10:11 PM
Chromium	ND	0.0060		mg/L	1	11/30/2010 2:10:11 PM
Lead	ND	0.0050		mg/L	1	11/30/2010 2:10:11 PM
Selenium	ND	0.050		mg/L	1	11/30/2010 2:10:11 PM
Silver	ND	0.0050		mg/L	1	11/30/2010 2:10:11 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
Toluene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
Ethylbenzene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
Methyl tert-butyl ether (MTBE)	6.5	1.0		µg/L	1	11/21/2010 5:01:27 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011766
Project: TW 810 Refinery
Lab ID: 1011766-03

Client Sample ID: TW-31
Collection Date: 11/16/2010 11:18:00 AM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
Naphthalene	ND	2.0		µg/L	1	11/21/2010 5:01:27 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 5:01:27 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 5:01:27 AM
Acetone	ND	10		µg/L	1	11/21/2010 5:01:27 AM
Bromobenzene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
Bromoform	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
Bromomethane	ND	3.0		µg/L	1	11/21/2010 5:01:27 AM
2-Butanone	ND	10		µg/L	1	11/21/2010 5:01:27 AM
Carbon disulfide	ND	10		µg/L	1	11/21/2010 5:01:27 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
Chlorobenzene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
Chloroethane	ND	2.0		µg/L	1	11/21/2010 5:01:27 AM
Chloroform	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
Chloromethane	ND	3.0		µg/L	1	11/21/2010 5:01:27 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/21/2010 5:01:27 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
Dibromomethane	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/21/2010 5:01:27 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
2-Hexanone	ND	10		µg/L	1	11/21/2010 5:01:27 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/21/2010 5:01:27 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

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011766
Project: TW 810 Refinery
Lab ID: 1011766-03

Client Sample ID: TW-31
Collection Date: 11/16/2010 11:18:00 AM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Methylene Chloride	ND	3.0		µg/L	1	11/21/2010 5:01:27 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
Styrene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/21/2010 5:01:27 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/21/2010 5:01:27 AM
Vinyl chloride	ND	1.0		µg/L	1	11/21/2010 5:01:27 AM
Xylenes, Total	ND	1.5		µg/L	1	11/21/2010 5:01:27 AM
Surr: 1,2-Dichloroethane-d4	98.7	77.7-113		%REC	1	11/21/2010 5:01:27 AM
Surr: 4-Bromofluorobenzene	100	76.4-106		%REC	1	11/21/2010 5:01:27 AM
Surr: Dibromofluoromethane	102	91.6-125		%REC	1	11/21/2010 5:01:27 AM
Surr: Toluene-d8	101	92.3-107		%REC	1	11/21/2010 5:01:27 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: IC
Specific Conductance	5500	0.010		µmhos/cm	1	11/23/2010 1:01:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	4680	100		mg/L	1	11/26/2010 8:21:00 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: 08-Dec-10

CLIENT: Animas Environmental Services **Client Sample ID:** TW-37
Lab Order: 1011766 **Collection Date:** 11/16/2010 2:06:00 PM
Project: TW 810 Refinery **Date Received:** 11/18/2010
Lab ID: 1011766-04 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	2.3	1.0		mg/L	1	11/20/2010 10:57:10 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/20/2010 10:57:10 PM
Surr: DNOP	119	86.9-151		%REC	1	11/20/2010 10:57:10 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	1.9	0.050		mg/L	1	11/25/2010 2:39:13 AM
Surr: BFB	217	84.5-118	S	%REC	1	11/25/2010 2:39:13 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	0.51	0.10		mg/L	1	11/29/2010 5:11:04 PM
Chloride	310	25		mg/L	50	12/1/2010 3:25:01 AM
Bromide	0.49	0.10		mg/L	1	11/29/2010 5:11:04 PM
Sulfate	1500	25		mg/L	50	12/1/2010 3:25:01 AM
EPA 6010B: HARDNESS						Analyst: RAGS
Hardness (As CaCO3)	1000	1.0		mg/L	1	11/30/2010
EPA METHOD 7470: MERCURY						Analyst: ELS
Mercury	ND	0.00020		mg/L	1	11/29/2010 12:32:01 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: RAGS
Calcium	340	20		mg/L	20	12/3/2010 11:08:59 AM
Magnesium	45	1.0		mg/L	1	11/30/2010 10:53:19 AM
Potassium	3.5	1.0		mg/L	1	11/30/2010 10:53:19 AM
Sodium	760	20		mg/L	20	12/3/2010 11:08:59 AM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: RAGS
Arsenic	ND	0.020		mg/L	1	11/30/2010 2:14:12 PM
Barium	0.061	0.020		mg/L	1	11/30/2010 2:14:12 PM
Cadmium	ND	0.0020		mg/L	1	11/30/2010 2:14:12 PM
Chromium	ND	0.0060		mg/L	1	11/30/2010 2:14:12 PM
Lead	ND	0.0050		mg/L	1	11/30/2010 2:14:12 PM
Selenium	ND	0.050		mg/L	1	11/30/2010 2:14:12 PM
Silver	ND	0.0050		mg/L	1	11/30/2010 2:14:12 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	280	10		µg/L	10	11/22/2010 4:43:37 PM
Toluene	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
Ethylbenzene	58	1.0		µg/L	1	11/21/2010 5:28:56 AM
Methyl tert-butyl ether (MTBE)	120	1.0		µg/L	1	11/21/2010 5:28:56 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011766
Project: TW 810 Refinery
Lab ID: 1011766-04

Client Sample ID: TW-37
Collection Date: 11/16/2010 2:06:00 PM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,2,4-Trimethylbenzene	44	1.0		µg/L	1	11/21/2010 5:28:56 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
Naphthalene	ND	2.0		µg/L	1	11/21/2010 5:28:56 AM
1-Methylnaphthalene	5.5	4.0		µg/L	1	11/21/2010 5:28:56 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 5:28:56 AM
Acetone	ND	10		µg/L	1	11/21/2010 5:28:56 AM
Bromobenzene	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
Bromoform	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
Bromomethane	ND	3.0		µg/L	1	11/21/2010 5:28:56 AM
2-Butanone	ND	10		µg/L	1	11/21/2010 5:28:56 AM
Carbon disulfide	ND	10		µg/L	1	11/21/2010 5:28:56 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
Chlorobenzene	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
Chloroethane	ND	2.0		µg/L	1	11/21/2010 5:28:56 AM
Chloroform	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
Chloromethane	ND	3.0		µg/L	1	11/21/2010 5:28:56 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/21/2010 5:28:56 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
Dibromomethane	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/21/2010 5:28:56 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
2-Hexanone	ND	10		µg/L	1	11/21/2010 5:28:56 AM
Isopropylbenzene	14	1.0		µg/L	1	11/21/2010 5:28:56 AM
4-Isopropyltoluene	3.0	1.0		µg/L	1	11/21/2010 5:28:56 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/21/2010 5:28:56 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

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011766
Project: TW 810 Refinery
Lab ID: 1011766-04

Client Sample ID: TW-37
Collection Date: 11/16/2010 2:06:00 PM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Methylene Chloride	ND	3.0		µg/L	1	11/21/2010 5:28:56 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
n-Propylbenzene	16	1.0		µg/L	1	11/21/2010 5:28:56 AM
sec-Butylbenzene	4.6	1.0		µg/L	1	11/21/2010 5:28:56 AM
Styrene	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
tert-Butylbenzene	1.2	1.0		µg/L	1	11/21/2010 5:28:56 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/21/2010 5:28:56 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/21/2010 5:28:56 AM
Vinyl chloride	ND	1.0		µg/L	1	11/21/2010 5:28:56 AM
Xylenes, Total	46	1.5		µg/L	1	11/21/2010 5:28:56 AM
Surr: 1,2-Dichloroethane-d4	111	77.7-113		%REC	1	11/21/2010 5:28:56 AM
Surr: 4-Bromofluorobenzene	93.1	76.4-106		%REC	1	11/21/2010 5:28:56 AM
Surr: Dibromofluoromethane	97.7	91.6-125		%REC	1	11/21/2010 5:28:56 AM
Surr: Toluene-d8	104	92.3-107		%REC	1	11/21/2010 5:28:56 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: IC
Specific Conductance	4200	0.010		µmhos/cm	1	11/23/2010 1:03:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	3380	40.0		mg/L	1	11/26/2010 8:21:00 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: 08-Dec-10

CLIENT:	Animas Environmental Services	Client Sample ID:	TW-38
Lab Order:	1011766	Collection Date:	11/16/2010 1:25:00 PM
Project:	TW 810 Refinery	Date Received:	11/18/2010
Lab ID:	1011766-05	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/20/2010 11:31:00 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/20/2010 11:31:00 PM
Surr: DNOP	120	88.9-151		%REC	1	11/20/2010 11:31:00 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	1.1	0.050		mg/L	1	11/25/2010 3:36:58 AM
Surr: BFB	132	84.5-118	S	%REC	1	11/25/2010 3:36:58 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	0.77	0.10		mg/L	1	11/29/2010 5:45:53 PM
Chloride	210	10		mg/L	20	11/29/2010 6:03:17 PM
Bromide	0.38	0.10		mg/L	1	11/29/2010 5:45:53 PM
Sulfate	1900	50		mg/L	100	12/1/2010 3:36:15 AM
EPA 6010B: HARDNESS						Analyst: RAGS
Hardness (As CaCO3)	1400	1.0		mg/L	1	11/30/2010
EPA METHOD 7470: MERCURY						Analyst: ELS
Mercury	ND	0.00020		mg/L	1	11/29/2010 12:37:33 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: RAGS
Calcium	490	20		mg/L	20	12/3/2010 11:28:47 AM
Magnesium	45	1.0		mg/L	1	11/30/2010 10:57:50 AM
Potassium	3.5	1.0		mg/L	1	11/30/2010 10:57:50 AM
Sodium	700	20		mg/L	20	12/3/2010 11:28:47 AM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: RAGS
Arsenic	ND	0.020		mg/L	1	11/30/2010 2:20:08 PM
Barium	0.023	0.020		mg/L	1	11/30/2010 2:20:08 PM
Cadmium	ND	0.0020		mg/L	1	11/30/2010 2:20:08 PM
Chromium	ND	0.0060		mg/L	1	11/30/2010 2:20:08 PM
Lead	ND	0.0050		mg/L	1	11/30/2010 2:20:08 PM
Selenium	ND	0.050		mg/L	1	11/30/2010 2:20:08 PM
Silver	ND	0.0050		mg/L	1	11/30/2010 2:20:08 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	140	5.0		µg/L	5	11/22/2010 5:11:20 PM
Toluene	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
Ethylbenzene	41	1.0		µg/L	1	11/21/2010 5:56:29 AM
Methyl tert-butyl ether (MTBE)	83	1.0		µg/L	1	11/21/2010 5:56:29 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011766
Project: TW 810 Refinery
Lab ID: 1011766-05

Client Sample ID: TW-38
Collection Date: 11/16/2010 1:25:00 PM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,2,4-Trimethylbenzene	29	1.0		µg/L	1	11/21/2010 5:56:29 AM
1,3,5-Trimethylbenzene	6.0	1.0		µg/L	1	11/21/2010 5:56:29 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
Naphthalene	ND	2.0		µg/L	1	11/21/2010 5:56:29 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 5:56:29 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 5:56:29 AM
Acetone	ND	10		µg/L	1	11/21/2010 5:56:29 AM
Bromobenzene	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
Bromoform	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
Bromomethane	ND	3.0		µg/L	1	11/21/2010 5:56:29 AM
2-Butanone	ND	10		µg/L	1	11/21/2010 5:56:29 AM
Carbon disulfide	ND	10		µg/L	1	11/21/2010 5:56:29 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
Chlorobenzene	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
Chloroethane	ND	2.0		µg/L	1	11/21/2010 5:56:29 AM
Chloroform	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
Chloromethane	ND	3.0		µg/L	1	11/21/2010 5:56:29 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/21/2010 5:56:29 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
Dibromomethane	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/21/2010 5:56:29 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
2-Hexanone	ND	10		µg/L	1	11/21/2010 5:56:29 AM
Isopropylbenzene	2.5	1.0		µg/L	1	11/21/2010 5:56:29 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/21/2010 5:56:29 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

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011766
Project: TW 810 Refinery
Lab ID: 1011766-05

Client Sample ID: TW-38
Collection Date: 11/16/2010 1:25:00 PM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Methylene Chloride	ND	3.0		µg/L	1	11/21/2010 5:56:29 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
n-Propylbenzene	2.7	1.0		µg/L	1	11/21/2010 5:56:29 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
Styrene	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/21/2010 5:56:29 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/21/2010 5:56:29 AM
Vinyl chloride	ND	1.0		µg/L	1	11/21/2010 5:56:29 AM
Xylenes, Total	71	1.5		µg/L	1	11/21/2010 5:56:29 AM
Surr: 1,2-Dichloroethane-d4	106	77.7-113		%REC	1	11/21/2010 5:56:29 AM
Surr: 4-Bromofluorobenzene	102	76.4-106		%REC	1	11/21/2010 5:56:29 AM
Surr: Dibromofluoromethane	100	91.6-125		%REC	1	11/21/2010 5:56:29 AM
Surr: Toluene-d8	103	92.3-107		%REC	1	11/21/2010 5:56:29 AM

EPA 120.1: SPECIFIC CONDUCTANCE

Analyst: IC

Specific Conductance	4400	0.010	µmhos/cm	1	11/23/2010 1:05:00 PM
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SM2540C MOD: TOTAL DISSOLVED SOLIDS

Analyst: KS

Total Dissolved Solids	3930	40.0	mg/L	1	11/26/2010 8:21:00 PM
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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

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Hall Environmental Analysis Laboratory, Inc.

Date: 08-Dec-10

CLIENT: Animas Environmental Services **Client Sample ID:** TW-39
Lab Order: 1011766 **Collection Date:** 11/16/2010 11:57:00 AM
Project: TW 810 Refinery **Date Received:** 11/18/2010
Lab ID: 1011766-06 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/21/2010 12:38:42 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/21/2010 12:38:42 AM
Surr: DNOP	118	86.9-151		%REC	1	11/21/2010 12:38:42 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	1.4	0.050		mg/L	1	11/25/2010 4:34:35 AM
Surr: BFB	250	84.5-118	S	%REC	1	11/25/2010 4:34:35 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	0.42	0.10		mg/L	1	11/29/2010 6:55:32 PM
Chloride	540	25		mg/L	50	12/1/2010 3:47:29 AM
Bromide	0.47	0.10		mg/L	1	11/29/2010 6:55:32 PM
Sulfate	1000	10		mg/L	20	11/29/2010 7:12:57 PM
EPA 6010B: HARDNESS						Analyst: RAGS
Hardness (As CaCO3)	1100	1.0		mg/L	1	11/30/2010
EPA METHOD 7470: MERCURY						Analyst: ELS
Mercury	ND	0.00020		mg/L	1	11/29/2010 12:39:23 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: RAGS
Calcium	370	20		mg/L	20	12/3/2010 11:31:14 AM
Magnesium	43	1.0		mg/L	1	11/30/2010 11:03:55 AM
Potassium	4.9	1.0		mg/L	1	11/30/2010 11:03:55 AM
Sodium	660	20		mg/L	20	12/3/2010 11:31:14 AM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: RAGS
Arsenic	ND	0.020		mg/L	1	11/30/2010 2:24:19 PM
Barium	0.029	0.020		mg/L	1	11/30/2010 2:24:19 PM
Cadmium	ND	0.0020		mg/L	1	11/30/2010 2:24:19 PM
Chromium	ND	0.0060		mg/L	1	11/30/2010 2:24:19 PM
Lead	ND	0.0050		mg/L	1	11/30/2010 2:24:19 PM
Selenium	ND	0.050		mg/L	1	11/30/2010 2:24:19 PM
Silver	ND	0.0050		mg/L	1	11/30/2010 2:24:19 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	92	1.0		µg/L	1	11/21/2010 6:24:05 AM
Toluene	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
Ethylbenzene	110	5.0		µg/L	5	11/22/2010 5:38:49 PM
Methyl tert-butyl ether (MTBE)	5.9	1.0		µg/L	1	11/21/2010 6:24:05 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011766
Project: TW 810 Refinery
Lab ID: 1011766-06

Client Sample ID: TW-39
Collection Date: 11/16/2010 11:57:00 AM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
Naphthalene	ND	2.0		µg/L	1	11/21/2010 6:24:05 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 6:24:05 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 6:24:05 AM
Acetone	ND	10		µg/L	1	11/21/2010 6:24:05 AM
Bromobenzene	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
Bromoform	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
Bromomethane	ND	3.0		µg/L	1	11/21/2010 6:24:05 AM
2-Butanone	ND	10		µg/L	1	11/21/2010 6:24:05 AM
Carbon disulfide	ND	10		µg/L	1	11/21/2010 6:24:05 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
Chlorobenzene	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
Chloroethane	ND	2.0		µg/L	1	11/21/2010 6:24:05 AM
Chloroform	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
Chloromethane	ND	3.0		µg/L	1	11/21/2010 6:24:05 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/21/2010 6:24:05 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
Dibromomethane	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/21/2010 6:24:05 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
2-Hexanone	ND	10		µg/L	1	11/21/2010 6:24:05 AM
Isopropylbenzene	16	1.0		µg/L	1	11/21/2010 6:24:05 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/21/2010 6:24:05 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

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Hall Environmental Analysis Laboratory, Inc.

Date: 08-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011766
Project: TW 810 Refinery
Lab ID: 1011766-06

Client Sample ID: TW-39
Collection Date: 11/16/2010 11:57:00 AM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Methylene Chloride	ND	3.0		µg/L	1	11/21/2010 6:24:05 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
n-Propylbenzene	11	1.0		µg/L	1	11/21/2010 6:24:05 AM
sec-Butylbenzene	4.0	1.0		µg/L	1	11/21/2010 6:24:05 AM
Styrene	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
tert-Butylbenzene	1.1	1.0		µg/L	1	11/21/2010 6:24:05 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/21/2010 6:24:05 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/21/2010 6:24:05 AM
Vinyl chloride	ND	1.0		µg/L	1	11/21/2010 6:24:05 AM
Xylenes, Total	1.8	1.5		µg/L	1	11/21/2010 6:24:05 AM
Surr: 1,2-Dichloroethane-d4	109	77.7-113		%REC	1	11/21/2010 6:24:05 AM
Surr: 4-Bromofluorobenzene	98.6	76.4-106		%REC	1	11/21/2010 6:24:05 AM
Surr: Dibromofluoromethane	98.8	91.6-125		%REC	1	11/21/2010 6:24:05 AM
Surr: Toluene-d8	103	92.3-107		%REC	1	11/21/2010 6:24:05 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: IC
Specific Conductance	4100	0.010		µmhos/cm	1	11/23/2010 1:07:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	3070	40.0		mg/L	1	11/26/2010 8:21:00 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: 08-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011766
Project: TW 810 Refinery
Lab ID: 1011766-07

Client Sample ID: TW-41
Collection Date: 11/16/2010 2:45:00 PM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	1.4	1.0		mg/L	1	11/21/2010 1:12:36 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/21/2010 1:12:36 AM
Surr: DNOP	118	86.9-151		%REC	1	11/21/2010 1:12:36 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	6.6	0.50		mg/L	10	11/25/2010 5:32:19 AM
Surr: BFB	123	84.5-118	S	%REC	10	11/25/2010 5:32:19 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	0.23	0.10		mg/L	1	11/29/2010 7:30:22 PM
Chloride	1100	50		mg/L	100	12/1/2010 3:58:43 AM
Bromide	1.0	0.10		mg/L	1	11/29/2010 7:30:22 PM
Sulfate	610	10		mg/L	20	11/29/2010 7:47:47 PM
EPA 6010B: HARDNESS						Analyst: RAGS
Hardness (As CaCO ₃)	980	1.0		mg/L	1	11/30/2010
EPA METHOD 7470: MERCURY						Analyst: ELS
Mercury	ND	0.00020		mg/L	1	11/29/2010 12:41:07 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: RAGS
Calcium	300	20		mg/L	20	12/3/2010 11:33:27 AM
Magnesium	58	1.0		mg/L	1	11/30/2010 11:08:14 AM
Potassium	5.8	1.0		mg/L	1	11/30/2010 11:08:14 AM
Sodium	910	20		mg/L	20	12/3/2010 11:33:27 AM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: RAGS
Arsenic	ND	0.020		mg/L	1	11/30/2010 2:28:32 PM
Barium	0.069	0.020		mg/L	1	11/30/2010 2:28:32 PM
Cadmium	ND	0.0020		mg/L	1	11/30/2010 2:28:32 PM
Chromium	ND	0.0060		mg/L	1	11/30/2010 2:28:32 PM
Lead	ND	0.0050		mg/L	1	11/30/2010 2:28:32 PM
Selenium	ND	0.050		mg/L	1	11/30/2010 2:28:32 PM
Silver	ND	0.0050		mg/L	1	11/30/2010 2:28:32 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	96	10		µg/L	10	11/21/2010 6:51:41 AM
Toluene	ND	10		µg/L	10	11/21/2010 6:51:41 AM
Ethylbenzene	480	10		µg/L	10	11/21/2010 6:51:41 AM
Methyl tert-butyl ether (MTBE)	17	10		µg/L	10	11/21/2010 6:51:41 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

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Dec-10

CLIENT: Animas Environmental Services **Client Sample ID:** TW-41
Lab Order: 1011766 **Collection Date:** 11/16/2010 2:45:00 PM
Project: TW 810 Refinery **Date Received:** 11/18/2010
Lab ID: 1011766-07 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,2,4-Trimethylbenzene	450	10		µg/L	10	11/21/2010 6:51:41 AM
1,3,5-Trimethylbenzene	97	10		µg/L	10	11/21/2010 6:51:41 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	11/21/2010 6:51:41 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	11/21/2010 6:51:41 AM
Naphthalene	55	20		µg/L	10	11/21/2010 6:51:41 AM
1-Methylnaphthalene	ND	40		µg/L	10	11/21/2010 6:51:41 AM
2-Methylnaphthalene	ND	40		µg/L	10	11/21/2010 6:51:41 AM
Acetone	ND	100		µg/L	10	11/21/2010 6:51:41 AM
Bromobenzene	ND	10		µg/L	10	11/21/2010 6:51:41 AM
Bromodichloromethane	ND	10		µg/L	10	11/21/2010 6:51:41 AM
Bromoform	ND	10		µg/L	10	11/21/2010 6:51:41 AM
Bromomethane	ND	30		µg/L	10	11/21/2010 6:51:41 AM
2-Butanone	ND	100		µg/L	10	11/21/2010 6:51:41 AM
Carbon disulfide	ND	100		µg/L	10	11/21/2010 6:51:41 AM
Carbon Tetrachloride	ND	10		µg/L	10	11/21/2010 6:51:41 AM
Chlorobenzene	ND	10		µg/L	10	11/21/2010 6:51:41 AM
Chloroethane	ND	20		µg/L	10	11/21/2010 6:51:41 AM
Chloroform	ND	10		µg/L	10	11/21/2010 6:51:41 AM
Chloromethane	ND	30		µg/L	10	11/21/2010 6:51:41 AM
2-Chlorotoluene	ND	10		µg/L	10	11/21/2010 6:51:41 AM
4-Chlorotoluene	ND	10		µg/L	10	11/21/2010 6:51:41 AM
cis-1,2-DCE	ND	10		µg/L	10	11/21/2010 6:51:41 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	11/21/2010 6:51:41 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	11/21/2010 6:51:41 AM
Dibromochloromethane	ND	10		µg/L	10	11/21/2010 6:51:41 AM
Dibromomethane	ND	10		µg/L	10	11/21/2010 6:51:41 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	11/21/2010 6:51:41 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	11/21/2010 6:51:41 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	11/21/2010 6:51:41 AM
Dichlorodifluoromethane	ND	10		µg/L	10	11/21/2010 6:51:41 AM
1,1-Dichloroethane	ND	10		µg/L	10	11/21/2010 6:51:41 AM
1,1-Dichloroethene	ND	10		µg/L	10	11/21/2010 6:51:41 AM
1,2-Dichloropropane	ND	10		µg/L	10	11/21/2010 6:51:41 AM
1,3-Dichloropropane	ND	10		µg/L	10	11/21/2010 6:51:41 AM
2,2-Dichloropropane	ND	20		µg/L	10	11/21/2010 6:51:41 AM
1,1-Dichloropropene	ND	10		µg/L	10	11/21/2010 6:51:41 AM
Hexachlorobutadiene	ND	10		µg/L	10	11/21/2010 6:51:41 AM
2-Hexanone	ND	100		µg/L	10	11/21/2010 6:51:41 AM
Isopropylbenzene	32	10		µg/L	10	11/21/2010 6:51:41 AM
4-Isopropyltoluene	ND	10		µg/L	10	11/21/2010 6:51:41 AM
4-Methyl-2-pentanone	ND	100		µg/L	10	11/21/2010 6:51:41 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

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Dec-10

CLIENT: Animas Environmental Services
 Lab Order: 1011766
 Project: TW 810 Refinery
 Lab ID: 1011766-07

Client Sample ID: TW-41
 Collection Date: 11/16/2010 2:45:00 PM
 Date Received: 11/18/2010
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Methylene Chloride	ND	30		µg/L	10	11/21/2010 6:51:41 AM
n-Butylbenzene	ND	10		µg/L	10	11/21/2010 6:51:41 AM
n-Propylbenzene	30	10		µg/L	10	11/21/2010 6:51:41 AM
sec-Butylbenzene	ND	10		µg/L	10	11/21/2010 6:51:41 AM
Styrene	ND	10		µg/L	10	11/21/2010 6:51:41 AM
tert-Butylbenzene	ND	10		µg/L	10	11/21/2010 6:51:41 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	11/21/2010 6:51:41 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	11/21/2010 6:51:41 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	11/21/2010 6:51:41 AM
trans-1,2-DCE	ND	10		µg/L	10	11/21/2010 6:51:41 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	11/21/2010 6:51:41 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	11/21/2010 6:51:41 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	11/21/2010 6:51:41 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	11/21/2010 6:51:41 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	11/21/2010 6:51:41 AM
Trichloroethene (TCE)	ND	10		µg/L	10	11/21/2010 6:51:41 AM
Trichlorofluoromethane	ND	10		µg/L	10	11/21/2010 6:51:41 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	11/21/2010 6:51:41 AM
Vinyl chloride	ND	10		µg/L	10	11/21/2010 6:51:41 AM
Xylenes, Total	2200	30		µg/L	20	11/22/2010 6:06:27 PM
Surr: 1,2-Dichloroethane-d4	105	77.7-113		%REC	10	11/21/2010 6:51:41 AM
Surr: 4-Bromofluorobenzene	93.7	76.4-106		%REC	10	11/21/2010 6:51:41 AM
Surr: Dibromofluoromethane	103	91.6-125		%REC	10	11/21/2010 6:51:41 AM
Surr: Toluene-d8	102	92.3-107		%REC	10	11/21/2010 6:51:41 AM

EPA 120.1: SPECIFIC CONDUCTANCE

Analyst: IC

Specific Conductance	5200	0.010	µmhos/cm	1	11/23/2010 1:09:00 PM
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SM2540C MOD: TOTAL DISSOLVED SOLIDS

Analyst: KS

Total Dissolved Solids	3670	40.0	mg/L	1	11/26/2010 8:21:00 PM
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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 21 of 29

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Dec-10

CLIENT:	Animas Environmental Services	Client Sample ID:	TW-42
Lab Order:	1011766	Collection Date:	11/16/2010 3:25:00 PM
Project:	TW 810 Refinery	Date Received:	11/18/2010
Lab ID:	1011766-08	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/21/2010 1:46:27 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/21/2010 1:46:27 AM
Surr: DNOP	117	86.9-151		%REC	1	11/21/2010 1:46:27 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.16	0.050		mg/L	1	11/25/2010 6:30:07 AM
Surr: BFB	105	84.5-118		%REC	1	11/25/2010 6:30:07 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	0.47	0.10		mg/L	1	11/29/2010 8:05:11 PM
Chloride	840	50		mg/L	100	12/1/2010 4:09:57 AM
Bromide	0.86	0.10		mg/L	1	11/29/2010 8:05:11 PM
Sulfate	2300	50		mg/L	100	12/1/2010 4:09:57 AM
EPA 6010B: HARDNESS						Analyst: RAGS
Hardness (As CaCO3)	1400	1.0		mg/L	1	12/3/2010
EPA METHOD 7470: MERCURY						Analyst: ELS
Mercury	ND	0.00020		mg/L	1	11/29/2010 12:42:50 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: RAGS
Calcium	370	5.0		mg/L	5	12/3/2010 12:58:30 PM
Magnesium	110	5.0		mg/L	5	12/3/2010 12:58:30 PM
Potassium	6.8	1.0		mg/L	1	12/3/2010 11:48:59 AM
Sodium	1200	50		mg/L	50	12/3/2010 12:44:34 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: RAGS
Arsenic	ND	0.020		mg/L	1	11/30/2010 2:42:00 PM
Barium	ND	0.020		mg/L	1	11/30/2010 2:42:00 PM
Cadmium	ND	0.0020		mg/L	1	11/30/2010 2:42:00 PM
Chromium	ND	0.0060		mg/L	1	11/30/2010 2:42:00 PM
Lead	ND	0.0050		mg/L	1	11/30/2010 2:42:00 PM
Selenium	ND	0.050		mg/L	1	11/30/2010 2:42:00 PM
Silver	ND	0.0050		mg/L	1	11/30/2010 2:42:00 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
Toluene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
Ethylbenzene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
Methyl tert-butyl ether (MTBE)	53	1.0		µg/L	1	11/21/2010 7:19:16 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

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011766
Project: TW 810 Refinery
Lab ID: 1011766-08

Client Sample ID: TW-42
Collection Date: 11/16/2010 3:25:00 PM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
Naphthalene	ND	2.0		µg/L	1	11/21/2010 7:19:16 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 7:19:16 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 7:19:16 AM
Acetone	ND	10		µg/L	1	11/21/2010 7:19:16 AM
Bromobenzene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
Bromoform	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
Bromomethane	ND	3.0		µg/L	1	11/21/2010 7:19:16 AM
2-Butanone	ND	10		µg/L	1	11/21/2010 7:19:16 AM
Carbon disulfide	ND	10		µg/L	1	11/21/2010 7:19:16 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
Chlorobenzene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
Chloroethane	ND	2.0		µg/L	1	11/21/2010 7:19:16 AM
Chloroform	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
Chloromethane	ND	3.0		µg/L	1	11/21/2010 7:19:16 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/21/2010 7:19:16 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
Dibromomethane	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/21/2010 7:19:16 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
2-Hexanone	ND	10		µg/L	1	11/21/2010 7:19:16 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/21/2010 7:19:16 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

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011766
Project: TW 810 Refinery
Lab ID: 1011766-08

Client Sample ID: TW-42
Collection Date: 11/16/2010 3:25:00 PM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Methylene Chloride	ND	3.0		µg/L	1	11/21/2010 7:19:16 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
Styrene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/21/2010 7:19:16 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/21/2010 7:19:16 AM
Vinyl chloride	ND	1.0		µg/L	1	11/21/2010 7:19:16 AM
Xylenes, Total	ND	1.5		µg/L	1	11/21/2010 7:19:16 AM
Surr: 1,2-Dichloroethane-d4	109	77.7-113		%REC	1	11/21/2010 7:19:16 AM
Surr: 4-Bromofluorobenzene	104	76.4-106		%REC	1	11/21/2010 7:19:16 AM
Surr: Dibromofluoromethane	101	91.6-125		%REC	1	11/21/2010 7:19:16 AM
Surr: Toluene-d8	98.5	92.3-107		%REC	1	11/21/2010 7:19:16 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: IC
Specific Conductance	5900	0.010		µmhos/cm	1	11/23/2010 1:11:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	5040	100		mg/L	1	11/26/2010 8:21:00 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: 08-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011766
Project: TW 810 Refinery
Lab ID: 1011766-09

Client Sample ID: TW-43
Collection Date: 11/16/2010 4:00:00 PM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/21/2010 2:20:17 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/21/2010 2:20:17 AM
Surr: DNOP	118	86.9-151		%REC	1	11/21/2010 2:20:17 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.48	0.050		mg/L	1	11/25/2010 9:23:11 AM
Surr: BFB	101	84.5-118		%REC	1	11/25/2010 9:23:11 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	0.98	0.10		mg/L	1	11/29/2010 8:40:01 PM
Chloride	150	10		mg/L	20	11/29/2010 8:57:26 PM
Bromide	0.44	0.10		mg/L	1	11/29/2010 8:40:01 PM
Sulfate	2800	50		mg/L	100	12/1/2010 4:43:40 AM
EPA 6010B: HARDNESS						Analyst: RAGS
Hardness (As CaCO3)	1600	1.0		mg/L	1	12/3/2010
EPA METHOD 7470: MERCURY						Analyst: ELS
Mercury	ND	0.00020		mg/L	1	11/29/2010 12:44:34 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: RAGS
Calcium	540	10		mg/L	10	12/3/2010 1:01:46 PM
Magnesium	53	1.0		mg/L	1	12/3/2010 11:52:23 AM
Potassium	4.8	1.0		mg/L	1	12/3/2010 11:52:23 AM
Sodium	820	10		mg/L	10	12/3/2010 1:01:46 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: RAGS
Arsenic	ND	0.020		mg/L	1	11/30/2010 2:46:10 PM
Barium	ND	0.020		mg/L	1	11/30/2010 2:46:10 PM
Cadmium	ND	0.0020		mg/L	1	11/30/2010 2:46:10 PM
Chromium	ND	0.0060		mg/L	1	11/30/2010 2:46:10 PM
Lead	0.0073	0.0050		mg/L	1	11/30/2010 2:46:10 PM
Selenium	ND	0.050		mg/L	1	11/30/2010 2:46:10 PM
Silver	ND	0.0050		mg/L	1	11/30/2010 2:46:10 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
Toluene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
Ethylbenzene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
Methyl tert-butyl ether (MTBE)	370	10		µg/L	10	11/22/2010 6:34:03 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-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011766
Project: TW 810 Refinery
Lab ID: 1011766-09

Client Sample ID: TW-43
Collection Date: 11/16/2010 4:00:00 PM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
1,2-Dichloroethane (EDC)	1.2	1.0		µg/L	1	11/21/2010 7:46:49 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
Naphthalene	ND	2.0		µg/L	1	11/21/2010 7:46:49 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 7:46:49 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 7:46:49 AM
Acetone	ND	10		µg/L	1	11/21/2010 7:46:49 AM
Bromobenzene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
Bromoform	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
Bromomethane	ND	3.0		µg/L	1	11/21/2010 7:46:49 AM
2-Butanone	ND	10		µg/L	1	11/21/2010 7:46:49 AM
Carbon disulfide	ND	10		µg/L	1	11/21/2010 7:46:49 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
Chlorobenzene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
Chloroethane	ND	2.0		µg/L	1	11/21/2010 7:46:49 AM
Chloroform	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
Chloromethane	ND	3.0		µg/L	1	11/21/2010 7:46:49 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
cis-1,2-DCE	3.8	1.0		µg/L	1	11/21/2010 7:46:49 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/21/2010 7:46:49 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
Dibromomethane	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/21/2010 7:46:49 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
2-Hexanone	ND	10		µg/L	1	11/21/2010 7:46:49 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/21/2010 7:46:49 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

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011766
Project: TW 810 Refinery
Lab ID: 1011766-09

Client Sample ID: TW-43
Collection Date: 11/16/2010 4:00:00 PM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Methylene Chloride	ND	3.0		µg/L	1	11/21/2010 7:46:49 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
Styrene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/21/2010 7:46:49 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/21/2010 7:46:49 AM
Vinyl chloride	ND	1.0		µg/L	1	11/21/2010 7:46:49 AM
Xylenes, Total	ND	1.5		µg/L	1	11/21/2010 7:46:49 AM
Surr: 1,2-Dichloroethane-d4	104	77.7-113		%REC	1	11/21/2010 7:46:49 AM
Surr: 4-Bromofluorobenzene	100	76.4-106		%REC	1	11/21/2010 7:46:49 AM
Surr: Dibromofluoromethane	105	91.6-125		%REC	1	11/21/2010 7:46:49 AM
Surr: Toluene-d8	102	92.3-107		%REC	1	11/21/2010 7:46:49 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: IC
Specific Conductance	4800	0.010		µmhos/cm	1	11/23/2010 1:12:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	4450	40.0		mg/L	1	11/26/2010 8:21:00 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: 08-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011766
Project: TW 810 Refinery
Lab ID: 1011766-10

Client Sample ID: TRIP BLANK
Collection Date:
Date Received: 11/18/2010
Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
Toluene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
Ethylbenzene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
Naphthalene	ND	2.0		µg/L	1	11/21/2010 9:09:25 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 9:09:25 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 9:09:25 AM
Acetone	ND	10		µg/L	1	11/21/2010 9:09:25 AM
Bromobenzene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
Bromoform	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
Bromomethane	ND	3.0		µg/L	1	11/21/2010 9:09:25 AM
2-Butanone	ND	10		µg/L	1	11/21/2010 9:09:25 AM
Carbon disulfide	ND	10		µg/L	1	11/21/2010 9:09:25 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
Chlorobenzene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
Chloroethane	ND	2.0		µg/L	1	11/21/2010 9:09:25 AM
Chloroform	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
Chloromethane	ND	3.0		µg/L	1	11/21/2010 9:09:25 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/21/2010 9:09:25 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
Dibromomethane	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/21/2010 9:09:25 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/21/2010 9:09:25 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

Hall Environmental Analysis Laboratory, Inc.

Date: 08-Dec-10

CLIENT: Animas Environmental Services
 Lab Order: 1011766
 Project: TW 810 Refinery
 Lab ID: 1011766-10

Client Sample ID: TRIP BLANK
 Collection Date:
 Date Received: 11/18/2010
 Matrix: TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
2-Hexanone	ND	10		µg/L	1	11/21/2010 9:09:25 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/21/2010 9:09:25 AM
Methylene Chloride	ND	3.0		µg/L	1	11/21/2010 9:09:25 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
Styrene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/21/2010 9:09:25 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/21/2010 9:09:25 AM
Vinyl chloride	ND	1.0		µg/L	1	11/21/2010 9:09:25 AM
Xylenes, Total	ND	1.5		µg/L	1	11/21/2010 9:09:25 AM
Surr: 1,2-Dichloroethane-d4	97.8	77.7-113		%REC	1	11/21/2010 9:09:25 AM
Surr: 4-Bromofluorobenzene	107	76.4-106	S	%REC	1	11/21/2010 9:09:25 AM
Surr: Dibromofluoromethane	98.1	91.6-125		%REC	1	11/21/2010 9:09:25 AM
Surr: Toluene-d8	103	92.3-107		%REC	1	11/21/2010 9:09:25 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

Page 29 of 29

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
 Project: TW 810 Refinery

Work Order: 1011766

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: 1011766-01CMSD		MSD				Batch ID: R42398		Analysis Date: 11/29/2010 1:24:43 PM			
Fluoride	1.525	mg/L	0.10	0.5	1.012	103	71.7	114	0.489	20	
Bromide	2.751	mg/L	0.10	2.5	0.2807	98.8	82	112	2.33	20	
Sample ID: MB		MBLK				Batch ID: R42398		Analysis Date: 11/29/2010 9:41:39 AM			
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		MBLK				Batch ID: R42398		Analysis Date: 11/30/2010 7:24:11 AM			
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Sulfate	ND	mg/L	0.50								
Sample ID: MB		MBLK				Batch ID: R42418		Analysis Date: 11/30/2010 3:15:02 PM			
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Sulfate	ND	mg/L	0.50								
Sample ID: LCS		LCS				Batch ID: R42398		Analysis Date: 11/29/2010 9:59:04 AM			
Fluoride	0.5265	mg/L	0.10	0.5	0	105	90	110			
Chloride	5.167	mg/L	0.50	5	0	103	90	110			
Bromide	2.584	mg/L	0.10	2.5	0	103	90	110			
Sulfate	10.34	mg/L	0.50	10	0	103	90	110			
Sample ID: LCS		LCS				Batch ID: R42398		Analysis Date: 11/30/2010 7:41:36 AM			
Fluoride	0.5379	mg/L	0.10	0.5	0	108	90	110			
Chloride	5.067	mg/L	0.50	5	0	101	90	110			
Bromide	2.550	mg/L	0.10	2.5	0	102	90	110			
Sulfate	10.20	mg/L	0.50	10	0	102	90	110			
Sample ID: LCS		LCS				Batch ID: R42418		Analysis Date: 11/30/2010 3:26:15 PM			
Fluoride	0.5470	mg/L	0.10	0.5	0	109	90	110			
Chloride	5.087	mg/L	0.50	5	0	102	90	110			
Bromide	2.604	mg/L	0.10	2.5	0	104	90	110			
Sulfate	10.31	mg/L	0.50	10	0	103	90	110			
Sample ID: 1011766-01CMS		MS				Batch ID: R42398		Analysis Date: 11/29/2010 1:07:18 PM			
Fluoride	1.517	mg/L	0.10	0.5	1.012	101	71.7	114			
Bromide	2.687	mg/L	0.10	2.5	0.2807	96.3	82	112			

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: TW 810 Refinery

Work Order: 1011766

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8016B: Diesel Range											
Sample ID: MB-24586		MBLK				Batch ID: 24586	Analysis Date: 11/20/2010 1:18:54 PM				
Diesel Range Organics (DRO)	ND	mg/L	1.0								
Motor Oil Range Organics (MRO)	ND	mg/L	5.0								
Sample ID: LCS-24586		LCS				Batch ID: 24586	Analysis Date: 11/20/2010 1:52:46 PM				
Diesel Range Organics (DRO)	5.761	mg/L	1.0	5	0	115	74	157			
Sample ID: LCSD-24586		LCSD				Batch ID: 24586	Analysis Date: 11/20/2010 2:26:53 PM				
Diesel Range Organics (DRO)	5.768	mg/L	1.0	5	0	115	74	157	0.116	23	

Method: EPA Method 8015B: Gasoline Range											
Sample ID: 5ML RB		MBLK				Batch ID: R42340	Analysis Date: 11/24/2010 8:28:50 AM				
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: b 14		MBLK				Batch ID: R42340	Analysis Date: 11/24/2010 2:36:43 PM				
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: b 48		MBLK				Batch ID: R42340	Analysis Date: 11/25/2010 6:59:00 AM				
Gasoline Range Organics (GRO)	ND	mg/L	0.050								
Sample ID: 2.5UG GRO LCS-II		LCS				Batch ID: R42340	Analysis Date: 11/24/2010 8:52:32 PM				
Gasoline Range Organics (GRO)	0.5210	mg/L	0.050	0.5	0	104	83.7	124			
Sample ID: 2.5UG GRO LCS		LCS				Batch ID: R42340	Analysis Date: 11/24/2010 12:18:10 PM				
Gasoline Range Organics (GRO)	0.5500	mg/L	0.050	0.5	0	110	83.7	124			
Sample ID: 2.5UG GRO LCS-III		LCS				Batch ID: R42340	Analysis Date: 11/25/2010 7:56:42 AM				
Gasoline Range Organics (GRO)	0.5038	mg/L	0.050	0.5	0	101	83.7	124			
Sample ID: 2.5UG GRO LCSD		LCSD				Batch ID: R42340	Analysis Date: 11/24/2010 12:47:11 PM				
Gasoline Range Organics (GRO)	0.5196	mg/L	0.050	0.5	0	104	83.7	124	5.68	12	
Sample ID: 2.5UG GRO LCSD-III		LCSD				Batch ID: R42340	Analysis Date: 11/25/2010 8:25:31 AM				
Gasoline Range Organics (GRO)	0.5020	mg/L	0.050	0.5	0	100	83.7	124	0.358	12	

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: TW 810 Refinery

Work Order: 1011766

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 1011766-09a msd

MSD

Batch ID: R42279 Analysis Date: 11/21/2010 8:41:53 AM

Benzene	18.83	µg/L	1.0	20	0	94.1	73.1	117	4.09	11.3	
Toluene	21.35	µg/L	1.0	20	0	107	82.9	109	0.542	11.6	
Chlorobenzene	20.73	µg/L	1.0	20	0	104	87.5	110	0.498	10.6	
1,1-Dichloroethene	21.34	µg/L	1.0	20	0	107	66.2	131	0.791	14.4	
Trichloroethene (TCE)	16.45	µg/L	1.0	20	0	82.3	67.1	110	0.834	11.2	

Sample ID: 5ml-rb

MBLK

Batch ID: R42279 Analysis Date: 11/20/2010 11:08:52 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								
1,2,4-Trimethylbenzene	ND	µg/L	1.0								
1,3,5-Trimethylbenzene	ND	µg/L	1.0								
1,2-Dichloroethane (EDC)	ND	µg/L	1.0								
1,2-Dibromoethane (EDB)	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								
Acetone	ND	µg/L	10								
Bromobenzene	ND	µg/L	1.0								
Bromodichloromethane	ND	µg/L	1.0								
Bromoform	ND	µg/L	1.0								
Bromomethane	ND	µg/L	3.0								
2-Butanone	ND	µg/L	10								
Carbon disulfide	ND	µg/L	10								
Carbon Tetrachloride	ND	µg/L	1.0								
Chlorobenzene	ND	µg/L	1.0								
Chloroethane	ND	µg/L	2.0								
Chloroform	ND	µg/L	1.0								
Chloromethane	ND	µg/L	3.0								
2-Chlorotoluene	ND	µg/L	1.0								
4-Chlorotoluene	ND	µg/L	1.0								
cis-1,2-DCE	ND	µg/L	1.0								
cis-1,3-Dichloropropene	ND	µg/L	1.0								
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0								
Dibromochloromethane	ND	µg/L	1.0								
Dibromomethane	ND	µg/L	1.0								
1,2-Dichlorobenzene	ND	µg/L	1.0								
1,3-Dichlorobenzene	ND	µg/L	1.0								
1,4-Dichlorobenzene	ND	µg/L	1.0								
Dichlorodifluoromethane	ND	µg/L	1.0								
1,1-Dichloroethane	ND	µg/L	1.0								
1,1-Dichloroethene	ND	µg/L	1.0								
1,2-Dichloropropane	ND	µg/L	1.0								
1,3-Dichloropropane	ND	µg/L	1.0								

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
 Project: TW 810 Refinery

Work Order: 1011766

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 5ml-rb

MBLK

Batch ID: R42279 Analysis Date: 11/20/2010 11:08:52 AM

2,2-Dichloropropane	ND	µg/L	2.0
1,1-Dichloropropene	ND	µg/L	1.0
Hexachlorobutadiene	ND	µg/L	1.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0
4-Isopropyltoluene	ND	µg/L	1.0
4-Methyl-2-pentanone	ND	µg/L	10
Methylene Chloride	ND	µg/L	3.0
n-Butylbenzene	ND	µg/L	1.0
n-Propylbenzene	ND	µg/L	1.0
sec-Butylbenzene	ND	µg/L	1.0
Styrene	ND	µg/L	1.0
tert-Butylbenzene	ND	µg/L	1.0
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0
Tetrachloroethene (PCE)	ND	µg/L	1.0
trans-1,2-DCE	ND	µg/L	1.0
trans-1,3-Dichloropropene	ND	µg/L	1.0
1,2,3-Trichlorobenzene	ND	µg/L	1.0
1,2,4-Trichlorobenzene	ND	µg/L	1.0
1,1,1-Trichloroethane	ND	µg/L	1.0
1,1,2-Trichloroethane	ND	µg/L	1.0
Trichloroethene (TCE)	ND	µg/L	1.0
Trichlorofluoromethane	ND	µg/L	1.0
1,2,3-Trichloropropane	ND	µg/L	2.0
Vinyl chloride	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	1.5

Sample ID: b3

MBLK

Batch ID: R42279 Analysis Date: 11/20/2010 11:57:45 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
1,2,4-Trimethylbenzene	ND	µg/L	1.0
1,3,5-Trimethylbenzene	ND	µg/L	1.0
1,2-Dichloroethane (EDC)	ND	µg/L	1.0
1,2-Dibromoethane (EDB)	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
Acetone	ND	µg/L	10
Bromobenzene	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	3.0

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services

Project: TW 810 Refinery

Work Order: 1011766

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b3

MBLK

Batch ID: R42279 Analysis Date: 11/20/2010 11:57:45 PM

2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	1.0
Chlorobenzene	ND	µg/L	1.0
Chloroethane	ND	µg/L	2.0
Chloroform	ND	µg/L	1.0
Chloromethane	ND	µg/L	3.0
2-Chlorotoluene	ND	µg/L	1.0
4-Chlorotoluene	ND	µg/L	1.0
cis-1,2-DCE	ND	µg/L	1.0
cis-1,3-Dichloropropene	ND	µg/L	1.0
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0
Dibromochloromethane	ND	µg/L	1.0
Dibromomethane	ND	µg/L	1.0
1,2-Dichlorobenzene	ND	µg/L	1.0
1,3-Dichlorobenzene	ND	µg/L	1.0
1,4-Dichlorobenzene	ND	µg/L	1.0
Dichlorodifluoromethane	ND	µg/L	1.0
1,1-Dichloroethane	ND	µg/L	1.0
1,1-Dichloroethene	ND	µg/L	1.0
1,2-Dichloropropane	ND	µg/L	1.0
1,3-Dichloropropane	ND	µg/L	1.0
2,2-Dichloropropane	ND	µg/L	2.0
1,1-Dichloropropene	ND	µg/L	1.0
Hexachlorobutadiene	ND	µg/L	1.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0
4-Isopropyltoluene	ND	µg/L	1.0
4-Methyl-2-pentanone	ND	µg/L	10
Methylene Chloride	ND	µg/L	3.0
n-Butylbenzene	ND	µg/L	1.0
n-Propylbenzene	ND	µg/L	1.0
sec-Butylbenzene	ND	µg/L	1.0
Styrene	ND	µg/L	1.0
tert-Butylbenzene	ND	µg/L	1.0
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0
1,1,1,2,2-Tetrachloroethane	ND	µg/L	2.0
Tetrachloroethene (PCE)	ND	µg/L	1.0
trans-1,2-DCE	ND	µg/L	1.0
trans-1,3-Dichloropropene	ND	µg/L	1.0
1,2,3-Trichlorobenzene	ND	µg/L	1.0
1,2,4-Trichlorobenzene	ND	µg/L	1.0
1,1,1-Trichloroethane	ND	µg/L	1.0
1,1,2-Trichloroethane	ND	µg/L	1.0

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
 Project: TW 810 Refinery

Work Order: 1011766

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b3

MBLK

Batch ID: R42279 Analysis Date: 11/20/2010 11:57:45 PM

Trichloroethene (TCE)	ND	µg/L	1.0
Trichlorofluoromethane	ND	µg/L	1.0
1,2,3-Trichloropropane	ND	µg/L	2.0
Vinyl chloride	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	1.5

Sample ID: 5ml-rb

MBLK

Batch ID: R42314 Analysis Date: 11/22/2010 8:56:13 AM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Methyl tert-butyl ether (MTBE)	ND	µg/L	1.0
1,2,4-Trimethylbenzene	ND	µg/L	1.0
1,3,5-Trimethylbenzene	ND	µg/L	1.0
1,2-Dichloroethane (EDC)	ND	µg/L	1.0
1,2-Dibromoethane (EDB)	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
Acetone	ND	µg/L	10
Bromobenzene	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	3.0
2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	1.0
Chlorobenzene	ND	µg/L	1.0
Chloroethane	ND	µg/L	2.0
Chloroform	ND	µg/L	1.0
Chloromethane	ND	µg/L	3.0
2-Chlorotoluene	ND	µg/L	1.0
4-Chlorotoluene	ND	µg/L	1.0
cis-1,2-DCE	ND	µg/L	1.0
cis-1,3-Dichloropropene	ND	µg/L	1.0
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0
Dibromochloromethane	ND	µg/L	1.0
Dibromomethane	ND	µg/L	1.0
1,2-Dichlorobenzene	ND	µg/L	1.0
1,3-Dichlorobenzene	ND	µg/L	1.0
1,4-Dichlorobenzene	ND	µg/L	1.0
Dichlorodifluoromethane	ND	µg/L	1.0
1,1-Dichloroethane	ND	µg/L	1.0
1,1-Dichloroethene	ND	µg/L	1.0
1,2-Dichloropropane	ND	µg/L	1.0
1,3-Dichloropropane	ND	µg/L	1.0

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: TW 810 Refinery

Work Order: 1011766

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 5ml-rb MBLK Batch ID: R42314 Analysis Date: 11/22/2010 8:56:13 AM

2,2-Dichloropropane	ND	µg/L	2.0
1,1-Dichloropropene	ND	µg/L	1.0
Hexachlorobutadiene	ND	µg/L	1.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0
4-Isopropyltoluene	ND	µg/L	1.0
4-Methyl-2-pentanone	ND	µg/L	10
Methylene Chloride	ND	µg/L	3.0
n-Butylbenzene	ND	µg/L	1.0
n-Propylbenzene	ND	µg/L	1.0
sec-Butylbenzene	ND	µg/L	1.0
Styrene	ND	µg/L	1.0
tert-Butylbenzene	ND	µg/L	1.0
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0
Tetrachloroethene (PCE)	ND	µg/L	1.0
trans-1,2-DCE	ND	µg/L	1.0
trans-1,3-Dichloropropene	ND	µg/L	1.0
1,2,3-Trichlorobenzene	ND	µg/L	1.0
1,2,4-Trichlorobenzene	ND	µg/L	1.0
1,1,1-Trichloroethane	ND	µg/L	1.0
1,1,2-Trichloroethane	ND	µg/L	1.0
Trichloroethene (TCE)	ND	µg/L	1.0
Trichlorofluoromethane	ND	µg/L	1.0
1,2,3-Trichloropropane	ND	µg/L	2.0
Vinyl chloride	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	1.5

Sample ID: b7 MBLK

Batch ID: R42314 Analysis Date: 11/22/2010 9:19:13 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
1,2,4-Trimethylbenzene	ND	µg/L	1.0
1,3,5-Trimethylbenzene	ND	µg/L	1.0
1,2-Dichloroethane (EDC)	ND	µg/L	1.0
1,2-Dibromoethane (EDB)	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
Acetone	ND	µg/L	10
Bromobenzene	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	3.0

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services

Project: TW 810 Refinery

Work Order: 1011766

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b7

MBLK

Batch ID: R42314 Analysis Date: 11/22/2010 9:19:13 PM

2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	1.0
Chlorobenzene	ND	µg/L	1.0
Chloroethane	ND	µg/L	2.0
Chloroform	ND	µg/L	1.0
Chloromethane	ND	µg/L	3.0
2-Chlorotoluene	ND	µg/L	1.0
4-Chlorotoluene	ND	µg/L	1.0
cis-1,2-DCE	ND	µg/L	1.0
cis-1,3-Dichloropropene	ND	µg/L	1.0
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0
Dibromochloromethane	ND	µg/L	1.0
Dibromomethane	ND	µg/L	1.0
1,2-Dichlorobenzene	ND	µg/L	1.0
1,3-Dichlorobenzene	ND	µg/L	1.0
1,4-Dichlorobenzene	ND	µg/L	1.0
Dichlorodifluoromethane	ND	µg/L	1.0
1,1-Dichloroethane	ND	µg/L	1.0
1,1-Dichloroethene	ND	µg/L	1.0
1,2-Dichloropropane	ND	µg/L	1.0
1,3-Dichloropropane	ND	µg/L	1.0
2,2-Dichloropropane	ND	µg/L	2.0
1,1-Dichloropropene	ND	µg/L	1.0
Hexachlorobutadiene	ND	µg/L	1.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0
4-Isopropyltoluene	ND	µg/L	1.0
4-Methyl-2-pentanone	ND	µg/L	10
Methylene Chloride	ND	µg/L	3.0
n-Butylbenzene	ND	µg/L	1.0
n-Propylbenzene	ND	µg/L	1.0
sec-Butylbenzene	ND	µg/L	1.0
Styrene	ND	µg/L	1.0
tert-Butylbenzene	ND	µg/L	1.0
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0
Tetrachloroethene (PCE)	ND	µg/L	1.0
trans-1,2-DCE	ND	µg/L	1.0
trans-1,3-Dichloropropene	ND	µg/L	1.0
1,2,3-Trichlorobenzene	ND	µg/L	1.0
1,2,4-Trichlorobenzene	ND	µg/L	1.0
1,1,1-Trichloroethane	ND	µg/L	1.0
1,1,2-Trichloroethane	ND	µg/L	1.0

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: TW 810 Refinery

Work Order: 1011766

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b7 MBLK Batch ID: R42314 Analysis Date: 11/22/2010 9:19:13 PM

Trichloroethene (TCE)	ND	µg/L	1.0
Trichlorofluoromethane	ND	µg/L	1.0
1,2,3-Trichloropropane	ND	µg/L	2.0
Vinyl chloride	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	1.5

Sample ID: 100ng lcs2 LCS Batch ID: R42279 Analysis Date: 11/20/2010 2:07:57 PM

Benzene	18.75	µg/L	1.0	20	0	93.8	84.6	109
Toluene	20.92	µg/L	1.0	20	0	105	81	114
Chlorobenzene	20.92	µg/L	1.0	20	0	105	85.2	113
1,1-Dichloroethene	21.65	µg/L	1.0	20	0	108	79.6	124
Trichloroethene (TCE)	17.39	µg/L	1.0	20	0	87.0	78.3	102

Sample ID: 100ng lcs3 LCS Batch ID: R42279 Analysis Date: 11/21/2010 12:52:57 AM

Benzene	18.40	µg/L	1.0	20	0	92.0	84.6	109
Toluene	20.68	µg/L	1.0	20	0	103	81	114
Chlorobenzene	20.60	µg/L	1.0	20	0	103	85.2	113
1,1-Dichloroethene	21.51	µg/L	1.0	20	0	108	79.6	124
Trichloroethene (TCE)	16.88	µg/L	1.0	20	0	84.4	78.3	102

Sample ID: 100ng lcs LCS Batch ID: R42314 Analysis Date: 11/22/2010 9:51:33 AM

Benzene	18.39	µg/L	1.0	20	0	92.0	84.6	109
Toluene	20.70	µg/L	1.0	20	0	103	81	114
Chlorobenzene	19.77	µg/L	1.0	20	0	98.9	85.2	113
1,1-Dichloroethene	20.62	µg/L	1.0	20	0	103	79.6	124
Trichloroethene (TCE)	16.05	µg/L	1.0	20	0	80.3	78.3	102

Sample ID: 100ng lcs LCS Batch ID: R42314 Analysis Date: 11/22/2010 9:51:33 AM

Benzene	18.39	µg/L	1.0	20	0	92.0	84.6	109
Toluene	20.70	µg/L	1.0	20	0	103	81	114
Chlorobenzene	19.77	µg/L	1.0	20	0	98.9	85.2	113
1,1-Dichloroethene	20.62	µg/L	1.0	20	0	103	79.6	124
Trichloroethene (TCE)	16.05	µg/L	1.0	20	0	80.3	78.3	102

Sample ID: 1011766-09a ms MS Batch ID: R42279 Analysis Date: 11/21/2010 8:14:21 AM

Benzene	19.62	µg/L	1.0	20	0	98.1	73.1	117
Toluene	21.24	µg/L	1.0	20	0	106	82.9	109
Chlorobenzene	20.83	µg/L	1.0	20	0	104	87.5	110
1,1-Dichloroethene	21.51	µg/L	1.0	20	0	108	66.2	131
Trichloroethene (TCE)	16.59	µg/L	1.0	20	0	83.0	67.1	110

Method: EPA Method 7470: Mercury

Sample ID: MB-24678 MBLK Batch ID: 24678 Analysis Date: 11/29/2010 12:21:08 PM

Mercury ND mg/L 0.00020

Sample ID: LCS-24678 LCS Batch ID: 24678 Analysis Date: 11/29/2010 12:22:55 PM

Mercury 0.005290 mg/L 0.00020 0.005 0 106 80 120

Sample ID: LCS-24678 LCS Batch ID: 24678 Analysis Date: 11/29/2010 12:24:44 PM

Mercury 0.005272 mg/L 0.00020 0.005 0 105 80 120 0.331 0

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
 Project: TW 810 Refinery

Work Order: 1011766

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 6010B: Dissolved Metals

Sample ID: MB MBLK Batch ID: R42402 Analysis Date: 11/30/2010 8:52:57 AM

Calcium ND mg/L 1.0
 Magnesium ND mg/L 1.0
 Potassium ND mg/L 1.0
 Sodium ND mg/L 1.0

Sample ID: MB MBLK Batch ID: R42480 Analysis Date: 12/3/2010 11:44:23 AM

Calcium ND mg/L 1.0
 Magnesium ND mg/L 1.0
 Potassium ND mg/L 1.0
 Sodium ND mg/L 1.0

Sample ID: LCS LCS Batch ID: R42402 Analysis Date: 11/30/2010 8:56:04 AM

Calcium 53.91 mg/L 1.0 50.5 0.0397 107 80 120
 Magnesium 53.76 mg/L 1.0 50.5 0.0407 106 80 120
 Potassium 55.65 mg/L 1.0 55 0 101 80 120
 Sodium 52.32 mg/L 1.0 50.5 0.0742 103 80 120

Sample ID: LCSRR LCS Batch ID: R42402 Analysis Date: 11/30/2010 8:59:13 AM

Calcium 53.59 mg/L 1.0 50.5 0.0397 106 80 120 0.808 0
 Magnesium 53.22 mg/L 1.0 50.5 0.0407 105 80 120 1.01 0
 Potassium 55.05 mg/L 1.0 55 0 100 80 120 1.08 0
 Sodium 51.69 mg/L 1.0 50.5 0.0742 102 80 120 1.21 0

Sample ID: LCS LCS Batch ID: R42480 Analysis Date: 12/3/2010 11:46:45 AM

Calcium 50.64 mg/L 1.0 50.5 0 100 80 120
 Magnesium 48.19 mg/L 1.0 50.5 0 95.4 80 120
 Potassium 44.83 mg/L 1.0 55 0 81.5 80 120
 Sodium 44.04 mg/L 1.0 50.5 0.1433 86.9 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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
 Project: TW 810 Refinery

Work Order: 1011766

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA 6010B: Total Recoverable Metals

Sample ID: MB-24626 MBLK Batch ID: 24626 Analysis Date: 11/23/2010 9:45:29 AM

Barium	ND	mg/L	0.020
Cadmium	ND	mg/L	0.0020
Chromium	ND	mg/L	0.0060
Silver	ND	mg/L	0.0050

Sample ID: MB-24626 MBLK Batch ID: 24626 Analysis Date: 11/24/2010 1:39:26 PM

Arsenic	ND	mg/L	0.020
Lead	ND	mg/L	0.0050
Selenium	ND	mg/L	0.050

Sample ID: LCS-24626 LCS Batch ID: 24626 Analysis Date: 11/23/2010 9:48:22 AM

Barium	0.5367	mg/L	0.020	0.5	0	107	80	120
Cadmium	0.5425	mg/L	0.0020	0.5	0	108	80	120
Chromium	0.5513	mg/L	0.0060	0.5	0	110	80	120
Silver	0.5302	mg/L	0.0050	0.5	0.0010	106	80	120

Sample ID: LCS-24626 LCS Batch ID: 24626 Analysis Date: 11/24/2010 1:42:28 PM

Arsenic	0.5738	mg/L	0.020	0.5	0	115	80	120
Lead	0.5602	mg/L	0.0050	0.5	0	112	80	120
Selenium	0.5417	mg/L	0.050	0.5	0	108	80	120

Method: SM2540C MOD: Total Dissolved Solids

Sample ID: 1011766-01CMSD MSD Batch ID: 24653 Analysis Date: 11/26/2010 8:21:00 PM

Total Dissolved Solids 6844 mg/L 40.0 2000 4792 103 80 120 0 20

Sample ID: MB-24653 MBLK Batch ID: 24653 Analysis Date: 11/26/2010 8:21:00 PM

Total Dissolved Solids ND mg/L 20.0

Sample ID: LCS-24653 LCS Batch ID: 24653 Analysis Date: 11/26/2010 8:21:00 PM

Total Dissolved Solids 1003 mg/L 20.0 1000 0 100 80 120

Sample ID: 1011766-01CMS MS Batch ID: 24653 Analysis Date: 11/26/2010 8:21:00 PM

Total Dissolved Solids 6844 mg/L 40.0 2000 4792 103 80 120

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name ANIMAS ENVIRONMENTAL

Date Received:

11/18/2010

Work Order Number 1011766

Received by: LNM

Checklist completed by:

Signature

11/18/10
Date

Sample ID labels checked by:

Initials

NM / AT

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	
Container/Temp Blank temperature?	2.4°	<6° C Acceptable		

Number of preserved bottles checked for pH: 18
<2 >12 unless noted below.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

- Added 14L HNO₃ TO 500ML BOTTLES FOR: 02D, 04D, 06D, 07D, 08D, 09D TO PRESERVE FOR PROPER ANALYSIS. - 11/18/10

Corrective Action

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E Comanche
Parimonton, 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
11-16-10	1000	H ₂ O	TW-18
	1045		TW-30
	1118		TW-31
	1406		TW-37
	1325		TW-38
	1157		TW-39
	1445		TW-41
	1525		TW-42
	1600		TW-43
			Trip Blank

Date: 11-16-10 Time: 1635
 Relinquished by: Chad P

Date: 11-17-10 Time: 1615
 Relinquished by: Debra Water

Turn-Around Time:
☒ Standard ☐ Rush

Project Name:
TW 810 Refinery

Project #:
AES 050204

Project Manager:
Ross Kennermer

Sampler: Chad Dawson
 On Ice: ☒ Yes ☐ No
 Sample Temperature: 21
 Container Type and #
 Preservative Type
 HEAT No.
10111609

Container Type and #	Preservative Type	HEAT No.
6-40mL glass	5-HCl	1
1-500mL plastic	HNO ₃	2
1-125mL plastic	HNO ₃	3
1-liter plastic	non	4
		5
		6
		7
		8
		9
		10
		11

Received by: Debra Water Date: 11-16-10 Time: 1435
 Received by: Debra Water Date: 11-16-10 Time: 1600



HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Analysis Request											
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 per 6010/7410	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA) include MTBE / Naph	8270 (Semi-VOA)	6010 Dissolved Metals (Ca, Mg, K, and Na)
											6010 Hardness as CaCO ₃
											300.0 Fluoride, Sulfate
											TDS SM2540C
											Air Bubbles (X or N) (Sediment)

Remarks:
 Bill to BioTech
 8015 GLO-DRD \$160
 Discounted Price for TDS



COVER LETTER

Monday, December 13, 2010

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.: 1011764

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory, Inc. received 7 sample(s) on 11/18/2010 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.

Reporting limits are determined by EPA methodology.

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: 13-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011764
Project: TW 810 Refinery
Lab ID: 1011764-01

Client Sample ID: TW-35
Collection Date: 11/17/2010 10:37:00 AM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/19/2010 12:08:38 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/19/2010 12:08:38 PM
Surr: DNOP	119	86.9-151		%REC	1	11/19/2010 12:08:38 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	11/24/2010 9:50:21 PM
Surr: BFB	100	84.5-118		%REC	1	11/24/2010 9:50:21 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	0.81	0.10		mg/L	1	11/29/2010 1:03:50 PM
Chloride	70	10		mg/L	20	11/29/2010 1:56:03 PM
Bromide	0.26	0.10		mg/L	1	11/29/2010 1:03:50 PM
Sulfate	4700	100		mg/L	200	12/1/2010 12:14:06 AM
EPA 6010B: HARDNESS						Analyst: RAGS
Hardness (As CaCO3)	1600	1.0		mg/L	1	12/3/2010
EPA METHOD 7470: MERCURY						Analyst: ELS
Mercury	ND	0.00020		mg/L	1	11/23/2010 1:29:16 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: RAGS
Calcium	480	10		mg/L	10	12/3/2010 1:04:02 PM
Magnesium	84	1.0		mg/L	1	12/3/2010 11:55:46 AM
Potassium	8.6	1.0		mg/L	1	12/3/2010 11:55:46 AM
Sodium	1600	100		mg/L	100	12/3/2010 1:07:56 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: RAGS
Arsenic	ND	0.020		mg/L	1	11/30/2010 3:33:57 PM
Barium	ND	0.020		mg/L	1	11/30/2010 3:33:57 PM
Cadmium	ND	0.0020		mg/L	1	11/30/2010 3:33:57 PM
Chromium	ND	0.0060		mg/L	1	11/30/2010 3:33:57 PM
Lead	ND	0.0050		mg/L	1	11/30/2010 3:33:57 PM
Selenium	ND	0.050		mg/L	1	11/30/2010 3:33:57 PM
Silver	ND	0.0050		mg/L	1	11/30/2010 3:33:57 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
Toluene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
Ethylbenzene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	11/20/2010 10:07:39 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: 13-Dec-10

CLIENT: Animas Environmental Services

Client Sample ID: TW-35

Lab Order: 1011764

Collection Date: 11/17/2010 10:37:00 AM

Project: TW 810 Refinery

Date Received: 11/18/2010

Lab ID: 1011764-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
Naphthalene	ND	2.0		µg/L	1	11/20/2010 10:07:39 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/20/2010 10:07:39 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/20/2010 10:07:39 PM
Acetone	ND	10		µg/L	1	11/20/2010 10:07:39 PM
Bromobenzene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
Bromodichloromethane	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
Bromoform	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
Bromomethane	ND	3.0		µg/L	1	11/20/2010 10:07:39 PM
2-Butanone	ND	10		µg/L	1	11/20/2010 10:07:39 PM
Carbon disulfide	ND	10		µg/L	1	11/20/2010 10:07:39 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
Chlorobenzene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
Chloroethane	ND	2.0		µg/L	1	11/20/2010 10:07:39 PM
Chloroform	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
Chloromethane	ND	3.0		µg/L	1	11/20/2010 10:07:39 PM
2-Chlorotoluene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
4-Chlorotoluene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
cis-1,2-DCE	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
cis-1,3-Dichloropropane	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/20/2010 10:07:39 PM
Dibromochloromethane	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
Dibromomethane	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/20/2010 10:07:39 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
2-Hexanone	ND	10		µg/L	1	11/20/2010 10:07:39 PM
Isopropylbenzene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/20/2010 10:07:39 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

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Hall Environmental Analysis Laboratory, Inc.

Date: 13-Dec-10

CLIENT: Animas Environmental Services

Client Sample ID: TW-35

Lab Order: 1011764

Collection Date: 11/17/2010 10:37:00 AM

Project: TW 810 Refinery

Date Received: 11/18/2010

Lab ID: 1011764-01

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Methylene Chloride	ND	3.0		µg/L	1	11/20/2010 10:07:39 PM
n-Butylbenzene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
n-Propylbenzene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
sec-Butylbenzene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
Styrene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
tert-Butylbenzene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/20/2010 10:07:39 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
trans-1,2-DCE	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/20/2010 10:07:39 PM
Vinyl chloride	ND	1.0		µg/L	1	11/20/2010 10:07:39 PM
Xylenes, Total	ND	1.5		µg/L	1	11/20/2010 10:07:39 PM
Surr: 1,2-Dichloroethane-d4	101	77.7-113		%REC	1	11/20/2010 10:07:39 PM
Surr: 4-Bromofluorobenzene	97.2	76.4-106		%REC	1	11/20/2010 10:07:39 PM
Surr: Dibromofluoromethane	103	91.6-125		%REC	1	11/20/2010 10:07:39 PM
Surr: Toluene-d8	101	92.3-107		%REC	1	11/20/2010 10:07:39 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: IC
Specific Conductance	6600	0.010		µmhos/cm	1	11/23/2010 12:43:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	6770	100		mg/L	1	11/29/2010 9:17:00 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

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Hall Environmental Analysis Laboratory, Inc.

Date: 13-Dec-10

CLIENT: Animas Environmental Services**Client Sample ID:** TW-45**Lab Order:** 1011764**Collection Date:** 11/17/2010 11:20:00 AM**Project:** TW 810 Refinery**Date Received:** 11/18/2010**Lab ID:** 1011764-02**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/19/2010 12:42:45 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/19/2010 12:42:45 PM
Surr: DNOP	119	86.9-151		%REC	1	11/19/2010 12:42:45 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.23	0.050		mg/L	1	11/24/2010 10:19:18 PM
Surr: BFB	103	84.5-118		%REC	1	11/24/2010 10:19:18 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	0.78	0.10		mg/L	1	11/29/2010 2:13:27 PM
Chloride	320	10		mg/L	20	11/29/2010 2:30:52 PM
Bromide	0.47	0.10		mg/L	1	11/29/2010 2:13:27 PM
Sulfate	2600	50		mg/L	100	12/1/2010 12:25:19 AM
EPA 6010B: HARDNESS						Analyst: RAGS
Hardness (As CaCO ₃)	1600	1.0		mg/L	1	12/3/2010
EPA METHOD 7470: MERCURY						Analyst: ELS
Mercury	ND	0.00020		mg/L	1	11/23/2010 1:31:05 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: RAGS
Calcium	550	10		mg/L	10	12/3/2010 1:10:09 PM
Magnesium	53	1.0		mg/L	1	12/3/2010 12:18:57 PM
Potassium	3.9	1.0		mg/L	1	12/3/2010 12:18:57 PM
Sodium	860	10		mg/L	10	12/3/2010 1:10:09 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: RAGS
Arsenic	0.070	0.020		mg/L	1	11/30/2010 3:38:10 PM
Barium	ND	0.020		mg/L	1	11/30/2010 3:38:10 PM
Cadmium	ND	0.0020		mg/L	1	11/30/2010 3:38:10 PM
Chromium	ND	0.0060		mg/L	1	11/30/2010 3:38:10 PM
Lead	ND	0.0050		mg/L	1	11/30/2010 3:38:10 PM
Selenium	ND	0.050		mg/L	1	11/30/2010 3:38:10 PM
Silver	ND	0.0050		mg/L	1	11/30/2010 3:38:10 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
Toluene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
Ethylbenzene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
Methyl tert-butyl ether (MTBE)	170	1.0		µg/L	1	11/20/2010 11:30:18 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 4 of 21

Hall Environmental Analysis Laboratory, Inc.

Date: 13-Dec-10

CLIENT: Animas Environmental Services **Client Sample ID:** TW-45
Lab Order: 1011764 **Collection Date:** 11/17/2010 11:20:00 AM
Project: TW 810 Refinery **Date Received:** 11/18/2010
Lab ID: 1011764-02 **Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
1,2-Dichloroethane (EDC)	1.0	1.0		µg/L	1	11/20/2010 11:30:18 PM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
Naphthalene	ND	2.0		µg/L	1	11/20/2010 11:30:18 PM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/20/2010 11:30:18 PM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/20/2010 11:30:18 PM
Acetone	ND	10		µg/L	1	11/20/2010 11:30:18 PM
Bromobenzene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
Bromodichloromethane	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
Bromoform	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
Bromomethane	ND	3.0		µg/L	1	11/20/2010 11:30:18 PM
2-Butanone	ND	10		µg/L	1	11/20/2010 11:30:18 PM
Carbon disulfide	ND	10		µg/L	1	11/20/2010 11:30:18 PM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
Chlorobenzene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
Chloroethane	ND	2.0		µg/L	1	11/20/2010 11:30:18 PM
Chloroform	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
Chloromethane	ND	3.0		µg/L	1	11/20/2010 11:30:18 PM
2-Chlorotoluene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
4-Chlorotoluene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
cis-1,2-DCE	4.5	1.0		µg/L	1	11/20/2010 11:30:18 PM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/20/2010 11:30:18 PM
Dibromochloromethane	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
Dibromomethane	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/20/2010 11:30:18 PM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
2-Hexanone	ND	10		µg/L	1	11/20/2010 11:30:18 PM
Isopropylbenzene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/20/2010 11:30:18 PM

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 13-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011764
Project: TW 810 Refinery
Lab ID: 1011764-02

Client Sample ID: TW-45
Collection Date: 11/17/2010 11:20:00 AM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Methylene Chloride	ND	3.0		µg/L	1	11/20/2010 11:30:18 PM
n-Butylbenzene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
n-Propylbenzene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
sec-Butylbenzene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
Styrene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
tert-Butylbenzene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/20/2010 11:30:18 PM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
trans-1,2-DCE	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/20/2010 11:30:18 PM
Vinyl chloride	ND	1.0		µg/L	1	11/20/2010 11:30:18 PM
Xylenes, Total	ND	1.5		µg/L	1	11/20/2010 11:30:18 PM
Surr: 1,2-Dichloroethane-d4	98.8	77.7-113		%REC	1	11/20/2010 11:30:18 PM
Surr: 4-Bromofluorobenzene	103	76.4-106		%REC	1	11/20/2010 11:30:18 PM
Surr: Dibromofluoromethane	103	91.6-125		%REC	1	11/20/2010 11:30:18 PM
Surr: Toluene-d8	103	92.3-107		%REC	1	11/20/2010 11:30:18 PM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: IC
Specific Conductance	5000	0.010		µmhos/cm	1	11/23/2010 12:45:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	4530	40.0		mg/L	1	11/29/2010 9:17:00 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: 13-Dec-10

CLIENT:	Animas Environmental Services	Client Sample ID:	TW-47
Lab Order:	1011764	Collection Date:	11/17/2010 12:17:00 PM
Project:	TW 810 Refinery	Date Received:	11/18/2010
Lab ID:	1011764-03	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE Analyst: JB						
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/19/2010 1:16:36 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/19/2010 1:16:36 PM
Surr: DNOP	120	86.9-151		%REC	1	11/19/2010 1:16:36 PM
EPA METHOD 8015B: GASOLINE RANGE Analyst: NSB						
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	11/24/2010 10:48:14 PM
Surr: BFB	101	84.5-118		%REC	1	11/24/2010 10:48:14 PM
EPA METHOD 300.0: ANIONS Analyst: SRM						
Fluoride	0.57	0.10		mg/L	1	11/29/2010 2:48:17 PM
Chloride	1200	50		mg/L	100	12/1/2010 12:36:34 AM
Bromide	0.93	0.10		mg/L	1	11/29/2010 2:48:17 PM
Sulfate	5300	100		mg/L	200	12/1/2010 12:47:48 AM
EPA 6010B: HARDNESS Analyst: RAGS						
Hardness (As CaCO3)	1700	1.0		mg/L	1	12/3/2010
EPA METHOD 7470: MERCURY Analyst: ELS						
Mercury	ND	0.00020		mg/L	1	11/23/2010 1:32:55 PM
EPA METHOD 6010B: DISSOLVED METALS Analyst: RAGS						
Calcium	490	10		mg/L	10	12/3/2010 1:12:23 PM
Magnesium	120	10		mg/L	10	12/3/2010 1:12:23 PM
Potassium	8.6	1.0		mg/L	1	12/3/2010 12:22:21 PM
Sodium	2300	100		mg/L	100	12/3/2010 1:15:37 PM
EPA 6010B: TOTAL RECOVERABLE METALS Analyst: RAGS						
Arsenic	ND	0.10		mg/L	5	11/30/2010 4:43:07 PM
Barium	ND	0.10		mg/L	5	11/30/2010 4:43:07 PM
Cadmium	ND	0.010		mg/L	5	11/30/2010 4:43:07 PM
Chromium	ND	0.030		mg/L	5	11/30/2010 4:43:07 PM
Lead	ND	0.025		mg/L	5	11/30/2010 4:43:07 PM
Selenium	ND	0.25		mg/L	5	11/30/2010 4:43:07 PM
Silver	ND	0.025		mg/L	5	11/30/2010 4:43:07 PM
EPA METHOD 8260B: VOLATILES Analyst: RAA						
Benzene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
Toluene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
Ethylbenzene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
Methyl tert-butyl ether (MTBE)	8.2	1.0		µg/L	1	11/21/2010 1:48:07 AM

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

Date: 13-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011764
Project: TW 810 Refinery
Lab ID: 1011764-03

Client Sample ID: TW-47
Collection Date: 11/17/2010 12:17:00 PM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
Naphthalene	ND	2.0		µg/L	1	11/21/2010 1:48:07 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 1:48:07 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 1:48:07 AM
Acetone	ND	10		µg/L	1	11/21/2010 1:48:07 AM
Bromobenzene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
Bromoform	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
Bromomethane	ND	3.0		µg/L	1	11/21/2010 1:48:07 AM
2-Butanone	ND	10		µg/L	1	11/21/2010 1:48:07 AM
Carbon disulfide	ND	10		µg/L	1	11/21/2010 1:48:07 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
Chlorobenzene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
Chloroethane	ND	2.0		µg/L	1	11/21/2010 1:48:07 AM
Chloroform	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
Chloromethane	ND	3.0		µg/L	1	11/21/2010 1:48:07 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/21/2010 1:48:07 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
Dibromomethane	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/21/2010 1:48:07 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
2-Hexanone	ND	10		µg/L	1	11/21/2010 1:48:07 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/21/2010 1:48:07 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: 13-Dec-10

CLIENT: Animas Environmental Services
 Lab Order: 1011764
 Project: TW 810 Refinery
 Lab ID: 1011764-03

Client Sample ID: TW-47
 Collection Date: 11/17/2010 12:17:00 PM
 Date Received: 11/18/2010
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Methylene Chloride	ND	3.0		µg/L	1	11/21/2010 1:48:07 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
Styrene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/21/2010 1:48:07 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/21/2010 1:48:07 AM
Vinyl chloride	ND	1.0		µg/L	1	11/21/2010 1:48:07 AM
Xylenes, Total	ND	1.5		µg/L	1	11/21/2010 1:48:07 AM
Surr: 1,2-Dichloroethane-d4	101	77.7-113		%REC	1	11/21/2010 1:48:07 AM
Surr: 4-Bromofluorobenzene	97.9	76.4-106		%REC	1	11/21/2010 1:48:07 AM
Surr: Dibromofluoromethane	102	91.6-125		%REC	1	11/21/2010 1:48:07 AM
Surr: Toluene-d8	99.6	92.3-107		%REC	1	11/21/2010 1:48:07 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: IC
Specific Conductance	8800	0.010		µmhos/cm	1	11/23/2010 12:47:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	8800	100		mg/L	1	11/29/2010 9:17:00 AM

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

Date: 13-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011764
Project: TW 810 Refinery
Lab ID: 1011764-04

Client Sample ID: TW-49
Collection Date: 11/17/2010 1:25:00 PM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/19/2010 1:50:43 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/19/2010 1:50:43 PM
Surr: DNOP	117	86.9-151		%REC	1	11/19/2010 1:50:43 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.12	0.050		mg/L	1	11/24/2010 11:17:07 PM
Surr: BFB	103	84.5-118		%REC	1	11/24/2010 11:17:07 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	0.51	0.10		mg/L	1	11/29/2010 3:23:06 PM
Chloride	3400	100		mg/L	200	12/1/2010 12:59:02 AM
Bromide	2.1	2.0		mg/L	20	11/29/2010 3:40:31 PM
Sulfate	7000	100		mg/L	200	12/1/2010 12:59:02 AM
EPA 6010B: HARDNESS						Analyst: RAGS
Hardness (As CaCO3)	1900	1.0		mg/L	1	12/3/2010
EPA METHOD 7470: MERCURY						Analyst: ELS
Mercury	ND	0.00020		mg/L	1	11/23/2010 1:38:27 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: RAGS
Calcium	630	10		mg/L	10	12/3/2010 1:17:52 PM
Magnesium	92	1.0		mg/L	1	12/3/2010 12:25:37 PM
Potassium	14	1.0		mg/L	1	12/3/2010 12:25:37 PM
Sodium	1700	100		mg/L	100	12/3/2010 1:20:12 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: RAGS
Arsenic	ND	0.10		mg/L	5	11/30/2010 4:47:19 PM
Barium	ND	0.10		mg/L	5	11/30/2010 4:47:19 PM
Cadmium	ND	0.010		mg/L	5	11/30/2010 4:47:19 PM
Chromium	ND	0.030		mg/L	5	11/30/2010 4:47:19 PM
Lead	ND	0.025		mg/L	5	11/30/2010 4:47:19 PM
Selenium	ND	0.25		mg/L	5	11/30/2010 4:47:19 PM
Silver	ND	0.025		mg/L	5	11/30/2010 4:47:19 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
Toluene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
Ethylbenzene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
Methyl tert-butyl ether (MTBE)	28	1.0		µg/L	1	11/21/2010 2:15:46 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

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Hall Environmental Analysis Laboratory, Inc.

Date: 13-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011764
Project: TW 810 Refinery
Lab ID: 1011764-04

Client Sample ID: TW-49
Collection Date: 11/17/2010 1:25:00 PM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
Naphthalene	ND	2.0		µg/L	1	11/21/2010 2:15:46 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 2:15:46 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 2:15:46 AM
Acetone	ND	10		µg/L	1	11/21/2010 2:15:46 AM
Bromobenzene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
Bromoform	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
Bromomethane	ND	3.0		µg/L	1	11/21/2010 2:15:46 AM
2-Butanone	ND	10		µg/L	1	11/21/2010 2:15:46 AM
Carbon disulfide	ND	10		µg/L	1	11/21/2010 2:15:46 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
Chlorobenzene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
Chloroethane	ND	2.0		µg/L	1	11/21/2010 2:15:46 AM
Chloroform	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
Chloromethane	ND	3.0		µg/L	1	11/21/2010 2:15:46 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/21/2010 2:15:46 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
Dibromomethane	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/21/2010 2:15:46 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
2-Hexanone	ND	10		µg/L	1	11/21/2010 2:15:46 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/21/2010 2:15:46 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

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Hall Environmental Analysis Laboratory, Inc.

Date: 13-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011764
Project: TW 810 Refinery
Lab ID: 1011764-04

Client Sample ID: TW-49
Collection Date: 11/17/2010 1:25:00 PM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Methylene Chloride	ND	3.0		µg/L	1	11/21/2010 2:15:46 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
Styrene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/21/2010 2:15:46 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/21/2010 2:15:46 AM
Vinyl chloride	ND	1.0		µg/L	1	11/21/2010 2:15:46 AM
Xylenes, Total	ND	1.5		µg/L	1	11/21/2010 2:15:46 AM
Surr: 1,2-Dichloroethane-d4	101	77.7-113		%REC	1	11/21/2010 2:15:46 AM
Surr: 4-Bromofluorobenzene	110	76.4-106	S	%REC	1	11/21/2010 2:15:46 AM
Surr: Dibromofluoromethane	101	91.6-125		%REC	1	11/21/2010 2:15:46 AM
Surr: Toluene-d8	102	92.3-107		%REC	1	11/21/2010 2:15:46 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: IC
Specific Conductance	8000	0.010		µmhos/cm	1	11/23/2010 12:49:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	7470	100		mg/L	1	11/29/2010 9:17:00 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

Hall Environmental Analysis Laboratory, Inc.

Date: 13-Dec-10

CLIENT:	Animas Environmental Services	Client Sample ID:	MW-5
Lab Order:	1011764	Collection Date:	11/17/2010 10:00:00 AM
Project:	TW 810 Refinery	Date Received:	11/18/2010
Lab ID:	1011764-05	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						
						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/19/2010 2:24:51 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/19/2010 2:24:51 PM
Surr: DNOP	122	86.9-151		%REC	1	11/19/2010 2:24:51 PM
EPA METHOD 8015B: GASOLINE RANGE						
						Analyst: NSB
Gasoline Range Organics (GRO)	0.11	0.050		mg/L	1	11/24/2010 11:45:56 PM
Surr: BFB	101	84.5-118		%REC	1	11/24/2010 11:45:56 PM
EPA METHOD 300.0: ANIONS						
						Analyst: SRM
Fluoride	ND	2.0		mg/L	20	12/1/2010 1:21:29 AM
Chloride	310	10		mg/L	20	12/1/2010 1:21:29 AM
Bromide	0.77	0.10		mg/L	1	12/1/2010 1:10:15 AM
Sulfate	3000	50		mg/L	100	12/2/2010 2:42:44 AM
EPA 6010B: HARDNESS						
						Analyst: RAGS
Hardness (As CaCO3)	500	1.0		mg/L	1	12/3/2010
EPA METHOD 7470: MERCURY						
						Analyst: ELS
Mercury	ND	0.00020		mg/L	1	11/23/2010 1:40:18 PM
EPA METHOD 6010B: DISSOLVED METALS						
						Analyst: RAGS
Calcium	150	5.0		mg/L	5	12/3/2010 1:22:29 PM
Magnesium	29	1.0		mg/L	1	12/3/2010 12:29:06 PM
Potassium	6.1	1.0		mg/L	1	12/3/2010 12:29:06 PM
Sodium	1200	20		mg/L	20	12/3/2010 1:32:43 PM
EPA 6010B: TOTAL RECOVERABLE METALS						
						Analyst: RAGS
Arsenic	ND	0.020		mg/L	1	11/30/2010 3:50:52 PM
Barium	ND	0.020		mg/L	1	11/30/2010 3:50:52 PM
Cadmium	ND	0.0020		mg/L	1	11/30/2010 3:50:52 PM
Chromium	ND	0.0060		mg/L	1	11/30/2010 3:50:52 PM
Lead	ND	0.0050		mg/L	1	11/30/2010 3:50:52 PM
Selenium	ND	0.050		mg/L	1	11/30/2010 3:50:52 PM
Silver	ND	0.0050		mg/L	1	11/30/2010 3:50:52 PM
EPA METHOD 8260B: VOLATILES						
						Analyst: RAA
Benzene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
Toluene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
Ethylbenzene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
Methyl tert-butyl ether (MTBE)	54	1.0		µg/L	1	11/21/2010 2:43:25 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

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Hall Environmental Analysis Laboratory, Inc.

Date: 13-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011764
Project: TW 810 Refinery
Lab ID: 1011764-05

Client Sample ID: MW-5
Collection Date: 11/17/2010 10:00:00 AM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
Naphthalene	ND	2.0		µg/L	1	11/21/2010 2:43:25 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 2:43:25 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 2:43:25 AM
Acetone	ND	10		µg/L	1	11/21/2010 2:43:25 AM
Bromobenzene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
Bromoform	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
Bromomethane	ND	3.0		µg/L	1	11/21/2010 2:43:25 AM
2-Butanone	ND	10		µg/L	1	11/21/2010 2:43:25 AM
Carbon disulfide	ND	10		µg/L	1	11/21/2010 2:43:25 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
Chlorobenzene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
Chloroethane	ND	2.0		µg/L	1	11/21/2010 2:43:25 AM
Chloroform	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
Chloromethane	ND	3.0		µg/L	1	11/21/2010 2:43:25 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
cis-1,2-DCE	3.1	1.0		µg/L	1	11/21/2010 2:43:25 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/21/2010 2:43:25 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
Dibromomethane	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/21/2010 2:43:25 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
2-Hexanone	ND	10		µg/L	1	11/21/2010 2:43:25 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/21/2010 2:43:25 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

Hall Environmental Analysis Laboratory, Inc.

Date: 13-Dec-10

CLIENT:	Animas Environmental Services	Client Sample ID:	MW-5
Lab Order:	1011764	Collection Date:	11/17/2010 10:00:00 AM
Project:	TW 810 Refinery	Date Received:	11/18/2010
Lab ID:	1011764-05	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Methylene Chloride	ND	3.0		µg/L	1	11/21/2010 2:43:25 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
Styrene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/21/2010 2:43:25 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/21/2010 2:43:25 AM
Vinyl chloride	ND	1.0		µg/L	1	11/21/2010 2:43:25 AM
Xylenes, Total	ND	1.5		µg/L	1	11/21/2010 2:43:25 AM
Surr: 1,2-Dichloroethane-d4	94.7	77.7-113		%REC	1	11/21/2010 2:43:25 AM
Surr: 4-Bromofluorobenzene	102	76.4-106		%REC	1	11/21/2010 2:43:25 AM
Surr: Dibromofluoromethane	99.1	91.6-125		%REC	1	11/21/2010 2:43:25 AM
Surr: Toluene-d8	98.2	92.3-107		%REC	1	11/21/2010 2:43:25 AM

EPA 120.1: SPECIFIC CONDUCTANCE

Analyst: IC

Specific Conductance	5400	0.010	µmhos/cm	1	11/23/2010 12:51:00 PM
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SM2540C MOD: TOTAL DISSOLVED SOLIDS

Analyst: KS

Total Dissolved Solids	4630	100	mg/L	1	11/29/2010 9:17:00 AM
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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

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Hall Environmental Analysis Laboratory, Inc.

Date: 13-Dec-10

CLIENT: Animas Environmental Services

Client Sample ID: MW-20

Lab Order: 1011764

Collection Date: 11/17/2010 11:45:00 AM

Project: TW 810 Refinery

Date Received: 11/18/2010

Lab ID: 1011764-06

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/20/2010 12:10:54 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/20/2010 12:10:54 PM
Surr: DNOP	122	86.9-151		%REC	1	11/20/2010 12:10:54 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	1.0	0.050		mg/L	1	11/25/2010 12:14:47 AM
Surr: BFB	140	84.5-118	S	%REC	1	11/25/2010 12:14:47 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	ND	0.50		mg/L	5	12/2/2010 2:53:58 AM
Chloride	430	25		mg/L	50	12/1/2010 1:55:10 AM
Bromide	0.72	0.10		mg/L	1	12/1/2010 1:43:56 AM
Sulfate	2000	25		mg/L	50	12/1/2010 1:55:10 AM
EPA 6010B: HARDNESS						Analyst: RAGS
Hardness (As CaCO3)	1200	1.0		mg/L	1	12/3/2010
EPA METHOD 7470: MERCURY						Analyst: ELS
Mercury	ND	0.00020		mg/L	1	11/23/2010 1:42:01 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: RAGS
Calcium	410	10		mg/L	10	12/3/2010 1:35:00 PM
Magnesium	47	1.0		mg/L	1	12/3/2010 12:34:13 PM
Potassium	4.1	1.0		mg/L	1	12/3/2010 12:34:13 PM
Sodium	840	10		mg/L	10	12/3/2010 1:35:00 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: RAGS
Arsenic	ND	0.020		mg/L	1	11/30/2010 3:54:57 PM
Barium	0.020	0.020		mg/L	1	11/30/2010 3:54:57 PM
Cadmium	ND	0.0020		mg/L	1	11/30/2010 3:54:57 PM
Chromium	ND	0.0080		mg/L	1	11/30/2010 3:54:57 PM
Lead	ND	0.0050		mg/L	1	11/30/2010 3:54:57 PM
Selenium	ND	0.050		mg/L	1	11/30/2010 3:54:57 PM
Silver	ND	0.0050		mg/L	1	11/30/2010 3:54:57 PM
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	1.6	1.0		µg/L	1	11/21/2010 3:11:03 AM
Toluene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
Ethylbenzene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
Methyl tert-butyl ether (MTBE)	160	1.0		µg/L	1	11/21/2010 3:11:03 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

Hall Environmental Analysis Laboratory, Inc.

Date: 13-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011764
Project: TW 810 Refinery
Lab ID: 1011764-06

Client Sample ID: MW-20
Collection Date: 11/17/2010 11:45:00 AM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
Naphthalene	ND	2.0		µg/L	1	11/21/2010 3:11:03 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 3:11:03 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 3:11:03 AM
Acetone	ND	10		µg/L	1	11/21/2010 3:11:03 AM
Bromobenzene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
Bromoform	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
Bromomethane	ND	3.0		µg/L	1	11/21/2010 3:11:03 AM
2-Butanone	ND	10		µg/L	1	11/21/2010 3:11:03 AM
Carbon disulfide	ND	10		µg/L	1	11/21/2010 3:11:03 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
Chlorobenzene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
Chloroethane	ND	2.0		µg/L	1	11/21/2010 3:11:03 AM
Chloroform	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
Chloromethane	ND	3.0		µg/L	1	11/21/2010 3:11:03 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/21/2010 3:11:03 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
Dibromomethane	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/21/2010 3:11:03 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
2-Hexanone	ND	10		µg/L	1	11/21/2010 3:11:03 AM
Isopropylbenzene	2.0	1.0		µg/L	1	11/21/2010 3:11:03 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/21/2010 3:11:03 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

Hall Environmental Analysis Laboratory, Inc.

Date: 13-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011764
Project: TW 810 Refinery
Lab ID: 1011764-06

Client Sample ID: MW-20
Collection Date: 11/17/2010 11:45:00 AM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Methylene Chloride	ND	3.0		µg/L	1	11/21/2010 3:11:03 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
sec-Butylbenzene	1.3	1.0		µg/L	1	11/21/2010 3:11:03 AM
Styrene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
tert-Butylbenzene	1.4	1.0		µg/L	1	11/21/2010 3:11:03 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/21/2010 3:11:03 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/21/2010 3:11:03 AM
Vinyl chloride	ND	1.0		µg/L	1	11/21/2010 3:11:03 AM
Xylenes, Total	ND	1.5		µg/L	1	11/21/2010 3:11:03 AM
Surr: 1,2-Dichloroethane-d4	112	77.7-113		%REC	1	11/21/2010 3:11:03 AM
Surr: 4-Bromofluorobenzene	94.9	76.4-106		%REC	1	11/21/2010 3:11:03 AM
Surr: Dibromofluoromethane	99.0	91.6-125		%REC	1	11/21/2010 3:11:03 AM
Surr: Toluene-d8	99.0	92.3-107		%REC	1	11/21/2010 3:11:03 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: IC
Specific Conductance	4700	0.010		µmhos/cm	1	11/23/2010 12:53:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	3950	40.0		mg/L	1	11/29/2010 9:17:00 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

Hall Environmental Analysis Laboratory, Inc.

Date: 13-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011764
Project: TW 810 Refinery
Lab ID: 1011764-07

Client Sample ID: MW-21
Collection Date: 11/17/2010 12:42:00 PM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JB
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	11/20/2010 12:44:46 PM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	11/20/2010 12:44:46 PM
Surr: DNOP	129	86.9-151		%REC	1	11/20/2010 12:44:46 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	0.12	0.050		mg/L	1	11/25/2010 12:43:40 AM
Surr: BFB	104	84.5-118		%REC	1	11/25/2010 12:43:40 AM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Fluoride	0.64	0.50		mg/L	5	12/2/2010 3:05:12 AM
Chloride	820	50		mg/L	100	12/1/2010 2:40:04 AM
Bromide	0.87	0.10		mg/L	1	12/1/2010 2:28:51 AM
Sulfate	3500	50		mg/L	100	12/1/2010 2:40:04 AM
EPA 6010B: HARDNESS						Analyst: RAGS
Hardness (As CaCO3)	1400	1.0		mg/L	1	12/3/2010
EPA METHOD 7470: MERCURY						Analyst: ELS
Mercury	ND	0.00020		mg/L	1	11/23/2010 1:43:45 PM
EPA METHOD 6010B: DISSOLVED METALS						Analyst: RAGS
Calcium	460	10		mg/L	10	12/3/2010 1:37:15 PM
Magnesium	64	1.0		mg/L	1	12/3/2010 12:37:38 PM
Potassium	7.4	1.0		mg/L	1	12/3/2010 12:37:38 PM
Sodium	1400	100		mg/L	100	12/3/2010 1:41:11 PM
EPA 6010B: TOTAL RECOVERABLE METALS						Analyst: RAGS
Arsenic	0.040	0.020		mg/L	1	12/7/2010 10:54:07 AM
Barium	ND	0.020		mg/L	1	12/7/2010 10:54:07 AM
Cadmium	ND	0.0020		mg/L	1	12/7/2010 10:54:07 AM
Calcium	390	5.0		mg/L	5	11/30/2010 4:57:46 PM
Chromium	ND	0.0060		mg/L	1	12/7/2010 10:54:07 AM
Lead	ND	0.0050		mg/L	1	12/7/2010 10:54:07 AM
Magnesium	60	1.0		mg/L	1	12/7/2010 10:54:07 AM
Potassium	7.2	1.0		mg/L	1	11/30/2010 4:01:02 PM
Selenium	ND	0.050		mg/L	1	12/7/2010 10:54:07 AM
Silver	ND	0.0050		mg/L	1	12/7/2010 10:54:07 AM
Sodium	1400	20		mg/L	20	12/7/2010 10:58:18 AM
EPA METHOD 8260B: VOLATILES						Analyst: RAA

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: 13-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011764
Project: TW 810 Refinery
Lab ID: 1011764-07

Client Sample ID: MW-21
Collection Date: 11/17/2010 12:42:00 PM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
Benzene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
Toluene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
Ethylbenzene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
Methyl tert-butyl ether (MTBE)	83	1.0		µg/L	1	11/21/2010 3:38:39 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
Naphthalene	ND	2.0		µg/L	1	11/21/2010 3:38:39 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 3:38:39 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	11/21/2010 3:38:39 AM
Acetone	ND	10		µg/L	1	11/21/2010 3:38:39 AM
Bromobenzene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
Bromodichloromethane	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
Bromoform	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
Bromomethane	ND	3.0		µg/L	1	11/21/2010 3:38:39 AM
2-Butanone	ND	10		µg/L	1	11/21/2010 3:38:39 AM
Carbon disulfide	ND	10		µg/L	1	11/21/2010 3:38:39 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
Chlorobenzene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
Chloroethane	ND	2.0		µg/L	1	11/21/2010 3:38:39 AM
Chloroform	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
Chloromethane	ND	3.0		µg/L	1	11/21/2010 3:38:39 AM
2-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
4-Chlorotoluene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
cis-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	11/21/2010 3:38:39 AM
Dibromochloromethane	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
Dibromomethane	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	11/21/2010 3:38:39 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	11/21/2010 3:38:39 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

Hall Environmental Analysis Laboratory, Inc.

Date: 13-Dec-10

CLIENT: Animas Environmental Services
Lab Order: 1011764
Project: TW 810 Refinery
Lab ID: 1011764-07

Client Sample ID: MW-21
Collection Date: 11/17/2010 12:42:00 PM
Date Received: 11/18/2010
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: RAA
2-Hexanone	ND	10		µg/L	1	11/21/2010 3:38:39 AM
Isopropylbenzene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	11/21/2010 3:38:39 AM
Methylene Chloride	ND	3.0		µg/L	1	11/21/2010 3:38:39 AM
n-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
n-Propylbenzene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
sec-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
Styrene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
tert-Butylbenzene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	11/21/2010 3:38:39 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
trans-1,2-DCE	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	11/21/2010 3:38:39 AM
Vinyl chloride	ND	1.0		µg/L	1	11/21/2010 3:38:39 AM
Xylenes, Total	ND	1.5		µg/L	1	11/21/2010 3:38:39 AM
Surr: 1,2-Dichloroethane-d4	95.4	77.7-113		%REC	1	11/21/2010 3:38:39 AM
Surr: 4-Bromofluorobenzene	101	76.4-106		%REC	1	11/21/2010 3:38:39 AM
Surr: Dibromofluoromethane	102	91.6-125		%REC	1	11/21/2010 3:38:39 AM
Surr: Toluene-d8	101	92.3-107		%REC	1	11/21/2010 3:38:39 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: IC
Specific Conductance	6700	0.010		µmhos/cm	1	11/23/2010 12:55:00 PM
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: KS
Total Dissolved Solids	6270	100		mg/L	1	11/29/2010 9:17:00 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: TW 810 Refinery

Work Order: 1011764

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: 1011764-01DMSD	MSD					Batch ID: R42387	Analysis Date: 11/29/2010 1:38:39 PM				
Fluoride	1.265	mg/L	0.10	0.5	0.8112	90.8	71.7	114	2.60	20	
Bromide	2.533	mg/L	0.10	2.5	0.2638	90.8	82	112	7.28	20	
Sample ID: MB	MBLK					Batch ID: R42387	Analysis Date: 11/29/2010 9:41:34 AM				
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Sulfate	ND	mg/L	0.50								
Sample ID: MB	MBLK					Batch ID: R42418	Analysis Date: 11/30/2010 3:15:02 PM				
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Sulfate	ND	mg/L	0.50								
Sample ID: MB	MBLK					Batch ID: R42439	Analysis Date: 12/1/2010 11:31:48 PM				
Fluoride	ND	mg/L	0.10								
Chloride	ND	mg/L	0.50								
Bromide	ND	mg/L	0.10								
Sulfate	ND	mg/L	0.50								
Sample ID: LCS	LCS					Batch ID: R42387	Analysis Date: 11/29/2010 9:58:59 AM				
Fluoride	0.4953	mg/L	0.10	0.5	0	99.1	90	110			
Chloride	4.867	mg/L	0.50	5	0	97.3	90	110			
Bromide	2.486	mg/L	0.10	2.5	0	99.4	90	110			
Sulfate	9.828	mg/L	0.50	10	0	98.3	90	110			
Sample ID: LCS	LCS					Batch ID: R42418	Analysis Date: 11/30/2010 3:26:15 PM				
Fluoride	0.5470	mg/L	0.10	0.5	0	109	90	110			
Chloride	5.087	mg/L	0.50	5	0	102	90	110			
Bromide	2.604	mg/L	0.10	2.5	0	104	90	110			
Sulfate	10.31	mg/L	0.50	10	0	103	90	110			
Sample ID: LCS	LCS					Batch ID: R42439	Analysis Date: 12/1/2010 11:43:01 PM				
Fluoride	0.5160	mg/L	0.10	0.5	0	103	90	110			
Chloride	4.946	mg/L	0.50	5	0	98.9	90	110			
Bromide	2.420	mg/L	0.10	2.5	0	96.8	90	110			
Sulfate	10.25	mg/L	0.50	10	0	102	90	110			
Sample ID: 1011764-01DMS	MS					Batch ID: R42387	Analysis Date: 11/29/2010 1:21:15 PM				
Fluoride	1.299	mg/L	0.10	0.5	0.8112	97.5	71.7	114			
Bromide	2.724	mg/L	0.10	2.5	0.2638	98.4	82	112			

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: TW 810 Refinery

Work Order: 1011764

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8015B: Diesel Range

Sample ID: MB-24587		MBLK				Batch ID: 24587	Analysis Date: 11/19/2010 9:52:42 AM
Diesel Range Organics (DRO)	ND	mg/L	1.0				
Motor Oil Range Organics (MRO)	ND	mg/L	5.0				
Sample ID: LCS-24587		LCS				Batch ID: 24587	Analysis Date: 11/19/2010 10:26:33 AM
Diesel Range Organics (DRO)	5.530	mg/L	1.0	5	0	111	74 157
Sample ID: LCSD-24587		LCSD				Batch ID: 24587	Analysis Date: 11/19/2010 11:00:24 AM
Diesel Range Organics (DRO)	5.780	mg/L	1.0	5	0	116	74 157 4.42 23

Method: EPA Method 8015B: Gasoline Range

Sample ID: 5ML RB		MBLK				Batch ID: R42340	Analysis Date: 11/24/2010 8:28:50 AM
Gasoline Range Organics (GRO)	ND	mg/L	0.050				
Sample ID: b 14		MBLK				Batch ID: R42340	Analysis Date: 11/24/2010 2:36:43 PM
Gasoline Range Organics (GRO)	ND	mg/L	0.050				
Sample ID: b 48		MBLK				Batch ID: R42340	Analysis Date: 11/25/2010 6:59:00 AM
Gasoline Range Organics (GRO)	ND	mg/L	0.050				
Sample ID: 2.5UG GRO LCS-II		LCS				Batch ID: R42340	Analysis Date: 11/24/2010 8:52:32 PM
Gasoline Range Organics (GRO)	0.5210	mg/L	0.050	0.5	0	104	83.7 124
Sample ID: 2.5UG GRO LCS		LCS				Batch ID: R42340	Analysis Date: 11/24/2010 12:18:10 PM
Gasoline Range Organics (GRO)	0.5500	mg/L	0.050	0.5	0	110	83.7 124
Sample ID: 2.5UG GRO LCS-III		LCS				Batch ID: R42340	Analysis Date: 11/25/2010 7:56:42 AM
Gasoline Range Organics (GRO)	0.5038	mg/L	0.050	0.5	0	101	83.7 124
Sample ID: 2.5UG GRO LCSD		LCSD				Batch ID: R42340	Analysis Date: 11/24/2010 12:47:11 PM
Gasoline Range Organics (GRO)	0.5196	mg/L	0.050	0.5	0	104	83.7 124 5.68 12
Sample ID: 2.5UG GRO LCSD-III		LCSD				Batch ID: R42340	Analysis Date: 11/25/2010 8:25:31 AM
Gasoline Range Organics (GRO)	0.5020	mg/L	0.050	0.5	0	100	83.7 124 0.358 12

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: TW 810 Refinery

Work Order: 1011764

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 1011764-01a msd

MSD

Batch ID: R42279 Analysis Date: 11/20/2010 11:02:50 PM

Benzene	19.19	µg/L	1.0	20	0	95.9	73.1	117	0.857	11.3
Toluene	20.81	µg/L	1.0	20	0	104	82.9	109	5.80	11.6
Chlorobenzene	20.13	µg/L	1.0	20	0	101	87.5	110	4.45	10.6
1,1-Dichloroethene	21.42	µg/L	1.0	20	0	107	66.2	131	3.37	14.4
Trichloroethene (TCE)	17.38	µg/L	1.0	20	0	86.9	67.1	110	3.16	11.2

Sample ID: 5ml-rb

MBLK

Batch ID: R42279 Analysis Date: 11/20/2010 11:08:52 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
1,2,4-Trimethylbenzene	ND	µg/L	1.0
1,3,5-Trimethylbenzene	ND	µg/L	1.0
1,2-Dichloroethane (EDC)	ND	µg/L	1.0
1,2-Dibromoethane (EDB)	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
Acetone	ND	µg/L	10
Bromobenzene	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	3.0
2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	1.0
Chlorobenzene	ND	µg/L	1.0
Chloroethane	ND	µg/L	2.0
Chloroform	ND	µg/L	1.0
Chloromethane	ND	µg/L	3.0
2-Chlorotoluene	ND	µg/L	1.0
4-Chlorotoluene	ND	µg/L	1.0
cis-1,2-DCE	ND	µg/L	1.0
cis-1,3-Dichloropropene	ND	µg/L	1.0
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0
Dibromochloromethane	ND	µg/L	1.0
Dibromomethane	ND	µg/L	1.0
1,2-Dichlorobenzene	ND	µg/L	1.0
1,3-Dichlorobenzene	ND	µg/L	1.0
1,4-Dichlorobenzene	ND	µg/L	1.0
Dichlorodifluoromethane	ND	µg/L	1.0
1,1-Dichloroethane	ND	µg/L	1.0
1,1-Dichloroethene	ND	µg/L	1.0
1,2-Dichloropropane	ND	µg/L	1.0
1,3-Dichloropropane	ND	µg/L	1.0

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services

Project: TW 810 Refinery

Work Order: 1011764

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: 5ml-rb

MBLK

Batch ID: R42279 Analysis Date: 11/20/2010 11:08:52 AM

2,2-Dichloropropane	ND	µg/L	2.0
1,1-Dichloropropene	ND	µg/L	1.0
Hexachlorobutadiene	ND	µg/L	1.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0
4-Isopropyltoluene	ND	µg/L	1.0
4-Methyl-2-pentanone	ND	µg/L	10
Methylene Chloride	ND	µg/L	3.0
n-Butylbenzene	ND	µg/L	1.0
n-Propylbenzene	ND	µg/L	1.0
sec-Butylbenzene	ND	µg/L	1.0
Styrene	ND	µg/L	1.0
tert-Butylbenzene	ND	µg/L	1.0
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0
Tetrachloroethene (PCE)	ND	µg/L	1.0
trans-1,2-DCE	ND	µg/L	1.0
trans-1,3-Dichloropropene	ND	µg/L	1.0
1,2,3-Trichlorobenzene	ND	µg/L	1.0
1,2,4-Trichlorobenzene	ND	µg/L	1.0
1,1,1-Trichloroethane	ND	µg/L	1.0
1,1,2-Trichloroethane	ND	µg/L	1.0
Trichloroethene (TCE)	ND	µg/L	1.0
Trichlorofluoromethane	ND	µg/L	1.0
1,2,3-Trichloropropane	ND	µg/L	2.0
Vinyl chloride	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	1.5

Sample ID: b3

MBLK

Batch ID: R42279 Analysis Date: 11/20/2010 11:57:45 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
1,2,4-Trimethylbenzene	ND	µg/L	1.0
1,3,5-Trimethylbenzene	ND	µg/L	1.0
1,2-Dichloroethane (EDC)	ND	µg/L	1.0
1,2-Dibromoethane (EDB)	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
Acetone	ND	µg/L	10
Bromobenzene	ND	µg/L	1.0
Bromodichloromethane	ND	µg/L	1.0
Bromoform	ND	µg/L	1.0
Bromomethane	ND	µg/L	3.0

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
 Project: TW 810 Refinery

Work Order: 1011764

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b3

MBLK

Batch ID: R42279 Analysis Date: 11/20/2010 11:57:45 PM

2-Butanone	ND	µg/L	10
Carbon disulfide	ND	µg/L	10
Carbon Tetrachloride	ND	µg/L	1.0
Chlorobenzene	ND	µg/L	1.0
Chloroethane	ND	µg/L	2.0
Chloroform	ND	µg/L	1.0
Chloromethane	ND	µg/L	3.0
2-Chlorotoluene	ND	µg/L	1.0
4-Chlorotoluene	ND	µg/L	1.0
cis-1,2-DCE	ND	µg/L	1.0
cis-1,3-Dichloropropene	ND	µg/L	1.0
1,2-Dibromo-3-chloropropane	ND	µg/L	2.0
Dibromochloromethane	ND	µg/L	1.0
Dibromomethane	ND	µg/L	1.0
1,2-Dichlorobenzene	ND	µg/L	1.0
1,3-Dichlorobenzene	ND	µg/L	1.0
1,4-Dichlorobenzene	ND	µg/L	1.0
Dichlorodifluoromethane	ND	µg/L	1.0
1,1-Dichloroethane	ND	µg/L	1.0
1,1-Dichloroethene	ND	µg/L	1.0
1,2-Dichloropropane	ND	µg/L	1.0
1,3-Dichloropropane	ND	µg/L	1.0
2,2-Dichloropropane	ND	µg/L	2.0
1,1-Dichloropropene	ND	µg/L	1.0
Hexachlorobutadiene	ND	µg/L	1.0
2-Hexanone	ND	µg/L	10
Isopropylbenzene	ND	µg/L	1.0
4-Isopropyltoluene	ND	µg/L	1.0
4-Methyl-2-pentanone	ND	µg/L	10
Methylene Chloride	ND	µg/L	3.0
n-Butylbenzene	ND	µg/L	1.0
n-Propylbenzene	ND	µg/L	1.0
sec-Butylbenzene	ND	µg/L	1.0
Styrene	ND	µg/L	1.0
tert-Butylbenzene	ND	µg/L	1.0
1,1,1,2-Tetrachloroethane	ND	µg/L	1.0
1,1,2,2-Tetrachloroethane	ND	µg/L	2.0
Tetrachloroethene (PCE)	ND	µg/L	1.0
trans-1,2-DCE	ND	µg/L	1.0
trans-1,3-Dichloropropene	ND	µg/L	1.0
1,2,3-Trichlorobenzene	ND	µg/L	1.0
1,2,4-Trichlorobenzene	ND	µg/L	1.0
1,1,1-Trichloroethane	ND	µg/L	1.0
1,1,2-Trichloroethane	ND	µg/L	1.0

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
Project: TW 810 Refinery

Work Order: 1011764

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 8260B: VOLATILES

Sample ID: b3 MBLK Batch ID: R42279 Analysis Date: 11/20/2010 11:57:45 PM

Trichloroethene (TCE) ND µg/L 1.0
Trichlorofluoromethane ND µg/L 1.0
1,2,3-Trichloropropane ND µg/L 2.0
Vinyl chloride ND µg/L 1.0
Xylenes, Total ND µg/L 1.5

Sample ID: 100ng lcs2 LCS Batch ID: R42279 Analysis Date: 11/20/2010 2:07:57 PM

Benzene 18.75 µg/L 1.0 20 0 93.8 84.6 109
Toluene 20.92 µg/L 1.0 20 0 105 81 114
Chlorobenzene 20.92 µg/L 1.0 20 0 105 85.2 113
1,1-Dichloroethene 21.65 µg/L 1.0 20 0 108 79.6 124
Trichloroethene (TCE) 17.39 µg/L 1.0 20 0 87.0 78.3 102

Sample ID: 100ng lcs3 LCS Batch ID: R42279 Analysis Date: 11/21/2010 12:52:57 AM

Benzene 18.40 µg/L 1.0 20 0 92.0 84.6 109
Toluene 20.68 µg/L 1.0 20 0 103 81 114
Chlorobenzene 20.60 µg/L 1.0 20 0 103 85.2 113
1,1-Dichloroethene 21.51 µg/L 1.0 20 0 108 79.6 124
Trichloroethene (TCE) 16.88 µg/L 1.0 20 0 84.4 78.3 102

Sample ID: 1011764-01a ms MS Batch ID: R42279 Analysis Date: 11/20/2010 10:35:11 PM

Benzene 19.35 µg/L 1.0 20 0 96.8 73.1 117
Toluene 22.05 µg/L 1.0 20 0 110 82.9 109
Chlorobenzene 21.05 µg/L 1.0 20 0 105 87.5 110
1,1-Dichloroethene 22.16 µg/L 1.0 20 0 111 66.2 131
Trichloroethene (TCE) 16.84 µg/L 1.0 20 0 84.2 67.1 110

Method: EPA Method 7470: Mercury

Sample ID: MB-24639 MBLK Batch ID: 24639 Analysis Date: 11/23/2010 1:23:52 PM

Mercury ND mg/L 0.00020

Sample ID: LCS-24639 LCS Batch ID: 24639 Analysis Date: 11/23/2010 1:25:39 PM

Mercury 0.005262 mg/L 0.00020 0.005 0 105 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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services
 Project: TW 810 Refinery

Work Order: 1011764

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: EPA Method 6010B: Dissolved Metals

Sample ID: MB MBLK Batch ID: R42480 Analysis Date: 12/3/2010 11:44:23 AM

Calcium	ND	mg/L	1.0								
Magnesium	ND	mg/L	1.0								
Potassium	ND	mg/L	1.0								
Sodium	ND	mg/L	1.0								

Sample ID: LCS LCS Batch ID: R42480 Analysis Date: 12/3/2010 11:46:45 AM

Calcium	50.64	mg/L	1.0	50.5	0	100	80	120			
Magnesium	48.19	mg/L	1.0	50.5	0	95.4	80	120			
Potassium	44.83	mg/L	1.0	55	0	81.5	80	120			
Sodium	44.04	mg/L	1.0	50.5	0.1433	86.9	80	120			

Sample ID: LCSRR LCS Batch ID: R42480 Analysis Date: 12/3/2010 1:48:00 PM

Calcium	50.54	mg/L	1.0	50.5	0	100	80	120	0.211	0	
Magnesium	47.60	mg/L	1.0	50.5	0	94.3	80	120	1.24	0	
Potassium	44.23	mg/L	1.0	55	0	80.4	80	120	1.36	0	
Sodium	43.73	mg/L	1.0	50.5	0.1433	86.3	80	120	0.718	0	

Method: EPA 6010B: Total Recoverable Metals

Sample ID: MB-24684 MBLK Batch ID: 24684 Analysis Date: 11/30/2010 1:51:05 PM

Arsenic	ND	mg/L	0.020								
Barium	ND	mg/L	0.020								
Cadmium	ND	mg/L	0.0020								
Calcium	ND	mg/L	1.0								
Chromium	ND	mg/L	0.0060								
Lead	ND	mg/L	0.0050								
Magnesium	ND	mg/L	1.0								
Potassium	ND	mg/L	1.0								
Selenium	ND	mg/L	0.050								
Sodium	ND	mg/L	1.0								

Sample ID: LCS-24684 LCS Batch ID: 24684 Analysis Date: 11/30/2010 1:54:30 PM

Arsenic	0.5285	mg/L	0.020	0.5	0	106	80	120			
Barium	0.5174	mg/L	0.020	0.5	0	103	80	120			
Cadmium	0.5406	mg/L	0.0020	0.5	0	108	80	120			
Calcium	50.09	mg/L	1.0	50	0	100	80	120			
Chromium	0.5215	mg/L	0.0060	0.5	0	104	80	120			
Lead	0.5301	mg/L	0.0050	0.5	0	106	80	120			
Magnesium	52.36	mg/L	1.0	50	0	105	80	120			
Potassium	55.43	mg/L	1.0	50	0	111	80	120			
Selenium	0.5284	mg/L	0.050	0.5	0	105	80	120			
Silver	0.6045	mg/L	0.0050	0.5	0.0150	118	80	120			B
Sodium	51.65	mg/L	1.0	50	0	103	80	120			

Qualifiers:

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

QA/QC SUMMARY REPORT

Client: Animas Environmental Services

Project: TW 810 Refinery

Work Order: 1011764

Analyte	Result	Units	PQL	SPK Val	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: SM2540C MOD: Total Dissolved Solids

Sample ID: MB-24667

MBLK

Batch ID: 24667 Analysis Date: 11/29/2010 9:17:00 AM

Total Dissolved Solids

ND

mg/L

20.0

Sample ID: LCS-24667

LCS

Batch ID: 24667 Analysis Date: 11/29/2010 9:17:00 AM

Total Dissolved Solids

1020

mg/L

20.0

1000

9

101

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:

11/18/2010

Work Order Number 1011764

Received by: LNM

Checklist completed by:

Signature

11/18/10
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
Container/Temp Blank temperature?	1.3°	<6° C Acceptable If given sufficient time to cool.	

Number of preserved bottles checked for pH:

14
<2 >12 unless noted below.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding:

Comments:

ADDED 14C HNO₃ TO: 01C, 04C, 05C, 06C, 07C 500'S TO PRESERVE FOR PROPER ANALYSIS. - 11/18/10

Corrective Action

DEPTH TO GROUNDWATER MEASUREMENT FORM

Animas Environmental Services

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

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

Project No.: AES 050204
Date: 11-15-10
Time: 0930-1530
Form: 1 of 2

Well I.D.	Time	Depth to NAPL (ft.)	Depth to Water (ft.)	NAPL Thickness (ft.)	Notes / Observations
TW-1	0953	—	30.98	—	
TW-2	0958	—	29.11	—	
TW-3	1003	—	28.16	—	
TW-4	1007	—	19.51	—	
TW-5	1012	—	25.70	—	
TW-6	1022	—	24.90	—	
TW-7	1026	—	22.37	—	
TW-8	1030	—	19.87	—	
TW-9	1034	—	12.36	—	
TW-10	1038	—	12.54	—	
TW-11	1055	—	18.52 18.29	—	
TW-12	1059	—	22.54	—	
TW-13	1107	20.79	21.39	0.60	
TW-14	1050	—	17.17	—	
TW-15	1048	—	15.24	—	
TW-16	1042	—	11.52	—	
TW-17	1113	—	15.10.18	—	
TW-18	1416	—	16.50	—	
TW-19	1411	17.79	19.02	0.23	
TW-20	1236	17.56	18.88	1.32	
TW-21	—	—	—	—	Well Damaged
TW-22	1354	14.94	15.14	0.20	
TW-23	1117	—	9.10	—	
TW-24	1345	11.17	11.30	0.13	
TW-25	1357	14.40	14.71	0.31	
TW-26	1245	15.85	17.06	1.21	
TW-28	1251	15.49	16.67	1.18	
TW-29	1350	9.45	10.23	0.80	
TW-30	1340	—	6.34	—	
TW-31	1537	—	7.20	—	
TW-32	1325	9.30	10.87	1.57	
TW-33	1256	12.97	13.15	0.18	
TW-34	1433	—	14.93	—	

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

624 E. Comanche, Farmington NM 87401
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.

Monitor Well No: TW-19

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

Project No.: AES 050204

Date: 11/15/10

Arrival Time: _____

Air Temp:

T.O.C. Elev. (ft): 5458.49

Total Well Depth (ft): _____

Time: (taken at initial gauging of all wells)

Time: _____ (taken prior to purging well)

Time: _____ (taken after sample collection)

D.T.W.: 18.02 Thickness: 0.23 Time:

Water Quality Parameters - Recorded During Well Purging

[illegible]

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

Full VOCs, GRO, DRO, MRO per EPA Methods 8260/8015 (6-40 mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

RCRA 8 Metals, Hardness as CaCO3 per EPA Method 6010/7470 (1-500 mL plastic w/ HNO3 preserve)

Dissolved Ca, Mg, K, Na per EPA Method 6010 (1-125 mL plastic w/ HNO₃ preserve)

TDS per 2540C, Bromide, Chloride, Flouride, Sulfate per 300.0, Spec. Cond. per 120.1 (1-1L 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:

[illegible]

Animas Environmental Services

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

Project No.: AES 050204
Date: 11/15/10
Arrival Time: _____
Air Temp: _____
O.C. Elev. (ft): 5450.19
Well Depth (ft): _____
(taken at initial gauging of all wells)
(taken prior to purging well)
(taken after sample collection)
Thickness: 0.20 Time: _____

[illegible]

Full VOCs, GRO, DRO, MRO per EPA Methods 8260/8015 (6-40 mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
RCRA B Metals, Hardness as CaCO₃ per EPA Method 6010/7470 (1-500 mL plastic w/ HNO₃ preserve)
Dissolved Ca, Mg, K, Na per EPA Method 6010 (1-125 mL plastic w/ HNO₃ preserve)
TDS per 2540C, Bromide, Chloride, Fluoride, Sulfate per 300.0, Spec. Cond. per 120.1 (1-1L 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:

[illegible]

Monitor Well No: TW-25

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

Site: Thriftway #B10 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: Chris Dawson
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.: 14.40 D.T.W.: 14.7

Project No.: AES 050204
Date: 7/15/10
Arrival Time: _____
Air Temp: _____
O.C. Elev. (ft): 5448.8
Well Depth (ft): _____
(taken at initial gauging of all wells)
(taken prior to purging well)
(taken after sample collection)
Thickness: 0.31 Time: _____

[illegible]

Full VOCs, GRO, DRO, MRO per EPA Methods 8260/8015 (6-40 mL Vials: 5 w/ HCl preserve and 1 w/ no preserve)
RCRA 8 Metals, Hardness as CaCO₃ per EPA Method 6010/7470 (1-500 mL plastic w/ HNO₃ preserve)
Dissolved Ca, Mg, K, Na per EPA Method 6010 (1-125 mL plastic w/ HNO₃ preserve)
TDS per 2540C, Bromide, Chloride, Fluoride, Sulfate per 300.0, Spec. Cond. per 120.1 (1-1L 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:

Monitor Well No: TW-26

624 E. Comanche, Farmington NM 87401
Tel: (505) 584-2281 Fax: (505) 324-2022

Project No.: AES 050204

Date: 11/15/10

Arrival Time:

Air Temp:

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

Total Well Depth (ft):

Time:

Time:

Time:

If NAPL Present:

If NAPL Present: D.T.P.: 15.85 D.T.W.: 17.06 Thickness: 1.21 Time: _____

[illegible]

Full VOCs, GRO, DRO, MRO per EPA Methods 8260/8015 (6-40 mL Vials: 5 w/ HCl preserve and 1 w/ no preserve)
RCRA 8 Metals, Hardness as CaCO₃ per EPA Method 6010/7470 (1-500 mL plastic w/ HNO₃ preserve)
Dissolved Ca, Mg, K, Na per EPA Method 6010 (1-125 mL plastic w/ HNO₃ preserve)
TDS per 2540C, Bromide, Chloride, Fluoride, Sulfate per 300.0, Spec. Cond. per 120.1 (1-1L plastic w/ no preserve)

Chain of Custody Record Complete:

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: 11-15-10
Arrival Time: _____
Air Temp: _____
O.C. Elev. (ft): 5449.24
Well Depth (ft): _____
(taken at initial gauging of all walls)
(taken prior to purging well)
(taken after sample collection)
Thickness: 1-18 Time: _____

[illegible]

Full VOCs, GRG, DRO, MRO per EPA Methods 8260/8015 (6-40 mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
RCRA 8 Metals, Hardness as CaCO₃ per EPA Method 6010/7470 (1-500 mL plastic w/ HNO₃ preserve)
Dissolved Ca, Mg, K, Na per EPA Method 6010 (1-125 mL plastic w/ HNO₃ preserve)
TDS per 2540C, Bromide, Chloride, Fluoride, Sulfate per 300.0, Spec. Cond. per 120.1 (1-4L 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:

[illegible]

Animas Environmental Services

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

Project No.: AES 05020d
Date: 11-16-10
Arrival Time: 1020
Air Temp: 48°
T.O.C. Elev. (ft): 5437.93
Well Depth (ft): 17.14
(taken at initial gauging of all wells)
(taken prior to purging well)
(taken after sample collection)
Thickness: Time:

[illegible]

Full VOCs, GRO, DRO, MRO per EPA Methods 8260/8015 (6-40 mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
RCRA 8 Metals, Hardness as CaCO₃ per EPA Method 6010/7470 (1-500 mL plastic w/ HNO₃ preserve)
Dissolved Ca, Mg, K, Na per EPA Method 6010 (1-125 mL plastic w/ HNO₃ preserve)
TDS per 2540C, Bromide, Chloride, Fluoride, Sulfate per 300.0, Spec. Cond. per 120.1 (1-1L plastic w/ no preserve)

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

Notes/Comments:

revised: 08/10/05

[illegible]

Animas Environmental Services

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

Project No.: AES 050204

Date: 11-15-10

Arrival Time:

Air Temp: _____

T.O.C. Elev. (ft): 5445.85

Total Well Depth (ft):

(taken at initial gauging of all wells)

(taken prior to purging well)

(taken after sample collection)

If NAPL Present: D.T.P.: 12.97 D.T.W.: 13.15 Thickness: 0.18 Time:

[illegible]

Full VOCs, GRO, DRO, MRO per EPA Methods 8260/8015 (6-40 mL Vials: 5 w/ HCl preserve and 1 w/ no preserve)
RCRA 8 Metals, Hardness as CaCO₃ per EPA Method 6010/7470 (1-500 mL plastic w/ HNO₃ preserve)
Dissolved Ca, Mg, K, Na per EPA Method 8010 (1-125 mL plastic w/ HNO₃ preserve)
TDS per 2540C, Bromide, Chloride, Fluoride, Sulfate per 300.0, Spec. Cond. per 120.1 (1-1L 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-35

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

Site: Thriftway #810 Refinery
Location: Bloomfield, New Mexico
Project: Groundwater Monitoring and Sampling
Sampling Technician: Chad Dawson
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 15.23 Time: 1429
Confirm D.T.W. (ft): 15.24 Time: 1510
Final D.T.W. (ft): _____ Time: _____
If NAPL Present: D.T.P.: _____ D.T.W.: _____ Thickness: _____ Time: _____

Project No.: AES 050204
Date: 11-17-10
Arrival Time: 1007
Air Temp: 47°
T.O.C. Elev. (ft): 5449.14
Total Well Depth (ft): 22.34
(taken at initial gauging of all wells)
(taken prior to purging well)
(taken after sample collection)

Water Quality Parameters - Recorded During Well Purging

Time	Temp (deg C)	Conductivity (µS) (mS)	DO (mg/L)	pH	ORP (mV)	PURGED VOLUME (see reverse for calc.)	Notes/Observations
1015	15.49	6.788	1.03	7.12	-12.3	0.50	
1022	15.80	7.064	0.67	7.12	-12.6	1.75	
1027	15.97	7.175	0.72	7.13	-15.3	3.00	
1037	_____	_____	_____	_____	_____	SC	_____

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

Full VOCs, GRO, DRO, MRO per EPA Methods 8260/8015 (6-40 mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
RCRA 8 Metals, Hardness as CaCO₃ per EPA Method 6010/7470 (1-500 mL plastic w/ HNO₃ preserve)
Dissolved Ca, Mg, K, Na per EPA Method 6010 (1-125 mL plastic w/ HNO₃ preserve)
TDS per 2540C, Bromide, Chloride, Fluoride, Sulfate per 300.0, Spec. Cond. per 120.1 (1-1L 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: _____

[illegible]

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>11-16-10</u>
Project: <u>Groundwater Monitoring and Sampling</u>	Arrival Time: <u>1338</u>
Sampling Technician: <u>Cloud Dawson</u>	Air Temp: <u>56°</u>
Purge / No Purge: <u>Purge</u>	T.O.C. Elev. (ft): <u>5439.59</u>
Well Diameter (in): <u>2</u>	Total Well Depth (ft): <u>16.5</u>
Initial D.T.W. (ft): <u>10-68</u>	Time: <u>1318 (11-15-10)</u> (taken at initial gauging of all wells)
Confirm D.T.W. (ft): <u>10-69</u>	Time: <u>1340</u> (taken prior to purging well)
Final D.T.W. (ft): _____	Time: _____ (taken after sample collection)
If NAPL Present: <u>D.T.P.</u>	D.T.W.: _____ Thickness: _____ Time: _____

[illegible]

Full VOCs, GRO, DRO, MRO per EPA Methods 8260/8015 (6-40 mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
RCRA 8 Metals, Hardness as CaCO₃ per EPA Method 6010/7470 (1-500 mL plastic w/ HNO₃ preserve)
Dissolved Ca, Mg, K, Na per EPA Method 6010 (1-125 mL plastic w/ HNO₃ preserve)
TDS per 2540C, Bromide, Chloride, Fluoride, Sulfate per 300.0, Spec. Cond. per 120.1 (1-1L plastic w/ no preserve)

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

Notes/Comments:

Animas Environmental Services

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

Project No.: AES 050204

Date: 11-16-10

Arrival Time: 1300

Air Temp: 53°

T.O.C. Elev. (ft): 5442.11

Total Well Depth (ft): 15.5

Initial D.T.W. (ft): 11.54 Time: 1320 (11-15-10) (taken at initial gauging of all wells)

Confirm D.T.W. (ft): 11.54 Time: 1303 (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]

Full VOCs, GRO, DRO, MRO per EPA Methods 8260/8015 (6-40 mL Vials: 5 w/ HCl preserve and 1 w/ no preserve)
RCRA 8 Metals, Hardness as CaCO₃ per EPA Method 6010/7470 (1-500 mL plastic w/ HNO₃ preserve)
Dissolved Ca, Mg, K, Na per EPA Method 6010 (1-125 mL plastic w/ HNO₃ preserve)
TDS per 2540C, Bromide, Chloride, Fluoride, Sulfate per 300.0, Spec. Cond. per 120.1 (1-1L 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:

[illegible]

MONITORING WELL SAMPLING RECORD

Animas Environmental Services

Monitor Well No: TW-41

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

Site: Thriftway #810 Refinery Project No.: AES 050204
Location: Bloomfield, New Mexico Date: 11-16-00
Project: Groundwater Monitoring and Sampling Arrival Time: 14:20
Sampling Technician: Charles Dawson Air Temp: 56°
Purge / No Purge: Purge T.O.C. Elev. (ft): 5434.77
Well Diameter (in): 2 Total Well Depth (ft): _____
Initial D.T.W. (ft): 6.12 Time: 1307 (11:50) (taken at initial gauging of all wells)
Confirm D.T.W. (ft): 6.14 Time: 1422 (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
1427	14.67	5.783	0.82	6.88	-4.1	0.50	
1431	14.41	5.763	0.78	6.91	-5.8	1.75	
1435	14.43	5.792	0.69	6.93	-6.7	3.00	
1445	—	—	—	—	—	SC —	—

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

Full VOCs, GRO, DRO, MRO per EPA Methods 8260/8015 (6-40 mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
RCRA 8 Metals, Hardness as CaCO₃ per EPA Method 6010/7470 (1-500 mL plastic w/ HNO₃ preserve)
Dissolved Ca, Mg, K, Na per EPA Method 8010 (1-125 mL plastic w/ HNO₃ preserve)
TDS per 2540C, Bromide, Chloride, Fluoride, Sulfate per 300.1, Spec: Cond. per 120.1 (1-1L 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-42

Animas Environmental Services

624 E. Cumanche, 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: Charles Dawson
Purge / No Purge: Purge
Well Diameter (in): 2
Initial D.T.W. (ft): 10.21 Time: 1310 C
Confirm D.T.W. (ft): 10.21 Time: 1500
Final D.T.W. (ft): _____ Time: _____
If NAPL Present: D.T.P.: _____ D.T.W.: _____

Project No.: AES 050204

Date: 11-16-70

Arrival Time: 1458

Air Temp: 62°

T.O.C. Elev. (ft): 5433.76

Total Well Depth (ft): 11.82

Initial D.T.W. (ft): 16.21

Time: 1310 (11-15-70) (taken at initial gauging of all wells)

Confirm D.T.W. (ft): 72.21

Time: 1500 (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)

Full VOCs, GRO, DRO, MRO per EPA Methods 8260/8015 (6-40 mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
RCRA 8 Metals, Hardness as CaCO₃ per EPA Method 6010/7470 (1-500 mL plastic w/ HNO₃ preserve)
Dissolved Ca, Mg, K, Na per EPA Method 6010 (1-125 mL plastic w/ HNO₃ preserve)
TDS per 2540C, Bromide, Chloride, Fluoride, Sulfate per 300.0, Spec. Cond. per 120.1 (1-1L 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

Animas Environmental Services

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

Project No.: AES 050204
Date: 11-16-10
Arrival Time: 1537
Air Temp: 56°
O.C. Elev. (ft): 5440.42
Well Depth (ft): 18.86
D (taken at initial gauging of all wells)
(taken prior to purging well)
(taken after sample collection)
Thickness: Time:

[illegible]

Full VOCs, GRO, DRO, MRO per EPA Methods 8260/8015 (6-40 mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
RCRA 8 Metals, Hardness as CaCO₃ per EPA Method 8010/7470 (1-500 mL plastic w/ HNO₃ preserve)
Dissolved Ca, Mg, K, Na per EPA Method 8010 (1-125 mL plastic w/ HNO₃ preserve)
TDS per 2540C, Bromide, Chloride, Fluoride, Sulfate per 300.0, Spec. Cond. per 120.1 (1-1L plastic w/ no preserve)

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

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: 11-15-10
Arrival Time: _____
Air Temp: _____
O.C. Elev. (ft): 5444.08
Well Depth (ft): 20.45
(taken at initial gauging of all wells)
(taken prior to purging well)
(taken after sample collection)
Thickness: 0.03 Time: _____

[illegible]

Full VOCs, GRO, DRO, MRO per EPA Methods 8260/8015 (6-40 mL Vials: 5 w/ HCl preserve and 1 w/ no preserve)
RCRA 8 Metals, Hardness as CaCO₃ per EPA Method 6010/7470 (1-500 mL plastic w/ HNO₃ preserve)
Dissolved Ca, Mg, K, Na per EPA Method 6010 (1-125 mL plastic w/ HNO₃ preserve)
TDS per 2540C, Bromide, Chloride, Fluoride, Sulfate per 300.0, Spec. Cond. per 120.1 (1-1L plastic w/ no preserve)

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

Notes/Comments:

Animas Environmental Services

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

Project No.: AES 050204
Date: 11-17-10
Arrival Time: 10:50
Air Temp: 52°
O.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]

Full VOCs, GRO, DRO, MRO per EPA Methods 8260/8015 (6-40 mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
RCRA 8 Metals, Hardness as CaCO₃ per EPA Method 6010/7470 (1-500 mL plastic w/ HNO₃ preserve)
Dissolved Ca, Mg, K, Na per EPA Method 6010 (1-125 mL plastic w/ HNO₃ preserve)
TDS per 2540C, Bromide, Chloride, Fluoride, Sulfate per 300.0, Spec. Cond. per 120.1 (1-1L plastic w/ no preserve)

Notes/Comments:

revised: 05/10/99

Animas Environmental Services

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

Project No.: AES 050204

Date: 11-12-10

Arrival Time: 1702

Air Temp:

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

Total Well Depth (ft):

Initial D.T.W. (ft): 7.93

Time: 1450 (11-15-10) taken at initial gauging of all wells

Confirm D.T.W. (ft): 7.94

Time: 1204 (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]

Full VOCs, GRO, DRO, MRO per EPA Methods 8260/8015 (6-40 mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
RCRA 8 Metals, Hardness as CaCO₃ per EPA Method 8010/7470 (1-500 mL plastic w/ HNO₃ preserve)
Dissolved Ca, Mg, K, Na per EPA Method 8010 (1-125 mL plastic w/ HNO₃ preserve)
TDS per 2540C, Bromide, Chloride, Fluoride, Sulfate per 300.0, Spec. Cond. per 120.1 (1-1L 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-49

Animas Environmental Services

624 E. Comanche, Farmington NM 87401

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

Site: Thriftway #810 Refinery

Location: Bloomfield, New Mexico

Project: Groundwater Monitoring and Sampling

Sampling Technician: LD

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.:

Project No.: AES 050204

Date: 11-15-10

Arrival Time: 17 47

Air Temp: 60°

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

Total Well Depth (ft):

(taken at initial gauging of all wells)

Time:

Time:

Time

DT

(taken prior to pouring well)

(taken after sample collection)

Thickness	Time
-----------	------

Thickness:

Time

Water Quality Parameters - Recorded During Well Purging

[illegible]

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

Full VOCs, GRO, DRO, MRO per EPA Methods 8260/8015 (6-40 mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)

RCRA 8 Metals. Hardness as CaCO3 per EPA Method 8010/7470 (1-500 mL plastic w/ HNO3 preserve)

Dissolved Ca, Mg, K, Na per EPA Method 6010 (1-125 mL plastic w/ HNO3 preserve)

TDS per 2540C, Bromide, Chloride, Fluoride, Sulfate per 300.0, Spec. Cond. per 120.1 (1-1L 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

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>11-17-10</u>
Project: <u>Groundwater Monitoring and Sampling</u>	Arrival Time: <u>0915</u>
Sampling Technician: <u>Clayton Dawson</u>	Air Temp: <u>44°</u>
Purge / No Purge: <u>Purge</u>	T.O.C. Elev. (ft): <u>5428.97</u>
Well Diameter (in): <u>2"</u>	Total Well Depth (ft): <u></u>
Initial D.T.W. (ft): <u>5.13</u>	Time: <u>1213 (11-15-10)</u> (taken at initial gauging of all wells)
Confirm D.T.W. (ft): <u>5.12</u>	Time: <u>0920</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]

Full VOCs, GRO, DRO, MRO per EPA Methods 8260/8015 (6-40 mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
RCRA 8 Metals, Hardness as CaCO₃ per EPA Method 6010/7470 (1-500 mL plastic w/ HNO₃ preserve)
Dissolved Ca, Mg, K, Na per EPA Method 6010 (1-125 mL plastic w/ HNO₃ preserve)
TDS per 2540C, Bromide, Chloride, Fluoride, Sulfate per 300.0, Spec. Cond. per 120.1 (1-1L 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: Cleared out Plant Growth

Monitor Well No: **MW-20**

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

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

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: 11-17-10
Arrival Time: 1724
Air Temp: 60°
C. Elev. (ft): 5428.62
Well Depth (ft):
Taken at initial gauging of all wells
(taken prior to purging well)
(taken after sample collection)
Thickness: Time:

Water Quality Parameters - Recorded During Well Purging

[illegible]

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

Full VOCs, GRO, DRO, MRO per EPA Methods 8260/8015 (6-40 mL Vials; 5 w/ HCl preserve and 1 w/ no preserve)
RCRA 8 Metals: Hardness as CaCO₃ per EPA Method 8010/7470 (1-500 mL plastic w/ HNO₃ preserve)
Dissolved Ca, Mg, K, Na per EPA Method 8010 (1-125 mL plastic w/ HNO₃ preserve)
TDS per 2540C, Bromide, Chloride, Fluoride, Sulfate per 300.0, Spec. Cond. per 120.1 (1-1L 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: