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February 13, 2017

William Jones
New Mexico Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 87505

Via electronic mail with delivery confirmation receipt to: williamv.jones@state.nm.us

**RE: Remedial Progress Report, Thriftway Refinery (NMOCD AP-116)
626 County Road 5500, Bloomfield, New Mexico**

Dear Mr. Jones:

BioTech Remediation, Inc (BioTech), on behalf of Thriftway Company (Thriftway), has completed this periodic Remedial Progress Report for the Thriftway Refinery, located at 626 County Road 5500, Bloomfield, New Mexico. This report summarizes soil and groundwater remediation activities completed between May and October 2016 and groundwater monitoring and sampling that was completed in September 2016.

Facility Description

The facility was constructed in the 1960s and processed San Juan Basin crude oil until the early 1990s. Most of the facility infrastructure has been dismantled and removed from the site. Since March 2010, a multi-phase high vacuum extraction (MPE) remediation system has operated at the facility during non-winter months to remove hydrocarbon vapors from the soil, free product from the soil and groundwater, and dissolved-phase hydrocarbons from the groundwater. Additionally, in 2010, 2011, 2012, and 2014 hybrid poplars, obtained from New Mexico State University (NMSU) Agriculture Experimental Station, were planted in the northwest portion of the facility as part of a joint phytoremediation pilot project. A total of 1,400 trees have been planted under the supervision of NMSU personnel, and survival rate for trees between the first and second year has been approximately 90 percent. A general site plan is included as **Figure 1** and monitor and MPE wells and the phytoremediation areas are shown on **Figure 2**.

Groundwater Monitoring, September 2016

BioTech personnel completed free product thickness and depth to groundwater monitoring on September 7, 2016 of the following groundwater monitor wells and MPE wells:

Monitor Wells Measured on September 7, 2016

TW-1	TW-2	TW-3	TW-4	TW-5	TW-6	TW-7	TW-8	TW-9	TW-10
TW-11	TW-12*	TW-13*	TW-14*	TW-15	TW-16	TW-17	TW-18	TW-19*	TW-20*
TW-21*	TW-22*	TW-23	TW-24	TW-25*	TW-26*	TW-28*	TW-29*	TW-30	TW-31
TW-32*	TW-33*	TW-34	TW-35*	TW-36	TW-37	TW-38*	TW-39	TW-40*	TW-41
TW-42	TW-43	TW-44*	TW-45	TW-46	TW-47	TW-48	TW-50*	TW-51	TW-52
TW-53	TW-54	MW-4	MW-5	MW-6	MW-7	MW-9	MW-10	MW-12*	MW-13
MW-17	MW-18	MW-19	MW-20	MW-21	RW-24	RW-25			

* Indicates Well Containing Free Product

MPE Wells Measured on September 7, 2016

MPE-1	MPE-2	MPE-3	MPE-4	MPE-5*	MPE-6*	MPE-7*	MPE-8	MPE-9
MPE-10	MPE-11	MPE-12	MPE-13*	MPE-14*	MPE-16	MPE-17	MPE-18	MPE-19
MPE-20*	MPE-21*	MPE-22	MPE-23	MPE-24*	MPE-25*	MPE-26*	MPE-27	MPE-28
MPE-29	MPE-30	MPE-31	MPE-32*	MPE-33*	MPE-34*	MPE-35*	MPE-36*	MPE-38*
MPE-39	MPE-40	MPE-41*	MPE-42*	MPE-43*	MPE-44*	MPE-45*	MPE-46*	MPE-47*
MPE-48	MPE-49*	MPE-50*	MPE-51*	MPE-52*	MPE-53*	MPE-54*	MPE-55	MPE-56
MPE-57	MPE-58	MPE-59	MPE-60	MPE-61	MPE-62	MPE-63*	MPE-64*	MPE-65*
MPE-66*	MPE-67*	MPE-68	MPE-69	MPE-70*	MPE-71*	MPE-72*	MPE-73*	MPE-74*
MPE-75*	MPE-76*	MPE-77*	MPE-78*	MPE-79	MPE-80	MPE-81*	MPE-82*	MPE-83*
MPE-84*	MPE-85*	MPE-86*	MPE-87*	MPE-88*	MPE-89*	MPE-90*		

* Indicates Well Containing Free Product

Free Product Thickness Measurements

Measurable thicknesses of free product were recorded in 19 monitor wells and 53 MPE wells during the September 2016 monitoring event. In general, free product thicknesses were similar to those measured during the February 2016 monitoring event and ranged from 0.01 to 1.57 feet, with most thicknesses being less than 0.50 feet. However, during the September 2017 monitoring event, product thicknesses and extent were observed to be diminishing in the 2015 and 2016 remediation system operation areas. Free product measurement data is summarized in **Table 1** and a free product thickness contour map, based on the September 2016 data, is included as **Figure 3**.

Groundwater Elevation Measurements

Depth to groundwater measurements at the site varied little between the February 2016 and September 2016 monitoring events. In the southeast portion of the site, depth to groundwater ranged from 28 feet below top of casing (TOC) to 31 feet below TOC, and groundwater elevations across this area ranged from 5435.00 to 5439.00 feet above mean sea level (AMSL). In the northwest portion of the site, depth to groundwater ranged between 4 and 5 feet below TOC, and groundwater elevations across this area ranged from 5423.00 to 5428.00 feet AMSL. Groundwater gradient measured between the southeast and northwest portions of the site is approximately 0.007 feet/foot west-northwest. Groundwater elevation measurement data is summarized in **Table 1** and a groundwater elevation contour map, based on the September

2016 data, is included as **Figure 4**.

Groundwater Quality Measurements

Following measurement of groundwater elevations, each well was purged with a new disposable bailer and the temperature, pH, and conductivity measurements observed during the purging, along with the purged volumes, were recorded onto Water Sample Collection Forms, which are included in **Appendix A**.

Groundwater temperature ranged between 14.66°C and 21.68°C, conductivity ranged between 4.100 mS and 9.530 mS, and pH varied between 7.21 and 7.52. Groundwater quality data are included in **Table 1**.

Groundwater Sampling and Analytical Results

Once each well was purged and measured for water quality parameters, groundwater samples were collected using a disposable bailer equipped with a slow release valve. Each sample was transferred into appropriate sample containers, labeled, and documented on the Water Sample Collection Form. The Chain of Custody Record was completed, and samples were transported to the analyzing laboratory, Hall Environmental Laboratory, Albuquerque, New Mexico, in insulated coolers at a temperature of less than 6°C. Analytical laboratory reports are included in **Appendix B**.

During the September 2016 sampling event, samples from 27 monitoring wells were analyzed for volatile organic compounds (VOCs) per EPA Method 8021B

Analytical results of groundwater samples collected in September 2016 are similar in respective concentration to those collected in February 2016. For this sampling event, benzene concentrations that exceeded the cleanup standard (10 µg/L) were detected in two monitor wells (TW-37 at 12 µg/L and TW-41 at 79 µg/L), which are located outside of the free product plume. Dissolved-phase methyl-tert-butyl ether (MTBE) concentrations from the September 2016 sampling event that exceed the cleanup standard (100 µg/L) were detected in two monitor wells (TW-51 at 220 µg/L and TW-43 at 300 µg/L, which are both located outside of the free product plume. All other hydrocarbon contaminants analyzed were below the laboratory method detection limit or below the cleanup standard. Hydrocarbon contaminant concentration data is summarized in **Table 2**. Dissolved benzene and MTBE concentration contour maps, based on the September 2016 data, are included as **Figure 5 and Figure 6**, respectively.

Remediation Activities

Between May 10 and October 7, 2016, the MPE system, which included two Remediation Services International (RSI) high-vacuum extraction units, were operated at the site. Due to freezing ambient air conditions, the remediation system is not operated during the winter and

early spring months. During the 2016 operational period, the equipment was operated on monitor well TW-7 and MPE wells 1, 2, 3, 7, 8, 14, 16, 23, and 24. During this period, a total of 74,798 gallons of a mixture of groundwater and free product were extracted. Based on component volume measurements, about 5 percent, or 3,740 gallons of the total volume extracted was free product. The free product is currently being stored at the facility and will be disposed of by recycling at Cummins Burner Fuel, Bloomfield, New Mexico. The groundwater was evaporated in one of the two lined evaporation ponds located at the facility. Due to the weathered nature of the free product and the minimal existence of soil vapors in the area of operation, extraction of additional hydrocarbon mass as vapor was not measurable.

Report Summary

During this monitoring and sampling event, free product thickness and depth to groundwater measurements were taken in 67 monitor wells and 88 MPE wells, and free product was found to be present in 19 of the monitor wells and 53 of the MPE wells. Based on comparisons of free product thickness and extent data from this event to that of previous events, the free product plume is stable and not migrating toward the western portion of the facility or the northern portion towards the Kutz wash. Due to remediation efforts, free product extent and thicknesses in the eastern portion (up-gradient) of the plume is diminishing.

During this sampling event, 27 monitoring wells, which did not contain free product, were sampled. Analytical results across the entire site were similar in respective concentrations to those collected in February 2016. Groundwater contaminants, benzene and MTBE, that exceeded the cleanup standards were detected in monitor wells located in the western portion of the facility. Based on comparisons of benzene and MTBE concentration data from this event to that of previous events, the benzene and MTBE plumes are stable and not migrating further west or north towards the Kutz wash.

Scheduled Work

The following tasks will be completed in 2017:

1. Groundwater monitoring and sampling will be completed in March and September 2017 and will include sampling of phytoremediation observation wells;
2. Based on the March 2017 sampling results of the phytoremediation observation wells, additional poplar trees may be planted in the northwest portion of the site; and
3. Soil and groundwater remediation equipment will be operated at the site between May and October 2017. Beginning this operational season, the RSI remediation units will be replaced with a Soil Therm micro-electric system, which has about 6 times the operation capacity of a single RSI unit. Free product and water separation and disposal will not change with the new remediation system.

If you have any questions regarding site conditions, planned site work, or this report, please do not hesitate to contact me at (505) 327-4965.

Sincerely,



Ross Kennemer
Project Manager

Attachments:

Tables

Table 1. Summary of Groundwater Measurement and Water Quality Data

Table 2. Summary of Groundwater Analytical Results

Figures

Figure 1. General Site Plan

Figure 2. Monitor and MPE Well Locations and Phytoremediation Areas

Figure 3. Free Product Thickness Contour Map, September 2016

Figure 4. Groundwater Elevation Contour Map, September 2016

Figure 5. Dissolved Benzene Concentration Contour Map, September 2016

Figure 6. Dissolved MTBE Concentration Contour Map, September 2016

Appendices

Appendix A. Water Sample Collection Forms

Appendix B. Hall Analytical Report

cc: Robert Moss, Thriftway Company
Via electronic mail with delivery confirmation receipt to:
robertgmoss@me.com

TABLES

TABLE 1
SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-1	21-May-14	5471.58		31.06		5440.52	NM	NM	NM	NM	NA
	05-Aug-14	5471.58		31.52		5440.06	NM	NM	NM	NM	NA
	05-Dec-14	5471.58		31.55		5440.03	NM	NM	NM	NM	NA
	13-Apr-15	5471.58		31.25		5440.33	NM	NM	NM	NM	NA
	17-Jun-15	5471.58		31.09		5440.49	NM	NM	NM	NM	NA
	16-Feb-16	5471.58		31.58		5440.00	7.51	2.654	14.66	-31.8	2
	07-Sep-16	5471.58		31.79		5439.79	NM	NM	NM	NM	NA
TW-2	21-May-14	5469.31		29.30		5440.01	NM	NM	NM	NM	NA
	05-Aug-14	5469.31		29.72		5439.59	NM	NM	NM	NM	NA
	05-Dec-14	5469.31		29.79		5439.52	NM	NM	NM	NM	NA
	13-Apr-15	5469.31		29.48		5439.83	NM	NM	NM	NM	NA
	17-Jun-15	5469.31		29.32		5439.99	NM	NM	NM	NM	NA
	16-Feb-16	5469.31		29.78		5439.53	7.41	4.327	15.73	-26.6	4
	07-Sep-16	5469.31		30.01		5439.30	NM	NM	NM	NM	NA
TW-3	21-May-14	5468.14		NM	NOT MEASURED - ROOT GROWTH AT 28'						
	05-Aug-14	5468.14		DRY			NM	NM	NM	NM	NA
	05-Dec-14	5468.14		30.00		5438.14	NM	NM	NM	NM	NA
	13-Apr-15	5468.14		NM	NOT MEASURED - ROOT GROWTH AT 28'						
	17-Jun-15	5468.14		NM	NOT MEASURED - ROOT GROWTH AT 28'						
	26-Feb-16	5468.14		28.23		5439.91	7.41	5.915	15.79	-32.1	4
	07-Sep-16	5468.14		29.12		5439.02	NM	NM	NM	NM	NA
TW-4	21-May-14	5458.72		19.43		5439.29	NM	NM	NM	NM	NA
	05-Aug-14	5458.72		19.90		5438.82	NM	NM	NM	NM	NA
	05-Dec-14	5458.72		19.92		5438.80	NM	NM	NM	NM	NA
	13-Apr-15	5458.72		19.58		5439.14	NM	NM	NM	NM	NA
	17-Jun-15	5458.72		19.48		5439.24	NM	NM	NM	NM	NA
	16-Feb-16	5458.72		19.87		5438.85	7.48	6.123	17.93	-30.3	4
	07-Sep-16	5458.72		20.20		5438.52	NM	NM	NM	NM	NA

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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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-5	21-May-14	5465.18		25.86		5439.32	NM	NM	NM	NM	NA
	05-Aug-14	5465.18		26.28		5438.90	NM	NM	NM	NM	NA
	05-Dec-14	5465.18		28.36		5436.82	NM	NM	NM	NM	NA
	13-Apr-15	5465.18		26.04		5439.14	NM	NM	NM	NM	NA
	17-Jun-15	5465.18		25.90		5439.28	NM	NM	NM	NM	NA
	16-Feb-16	5465.18		26.31		5438.87	7.41	3.260	16.07	-26.4	4
	07-Sep-16	5465.18	NM, WELL PLUGGED WITH TREE ROOTS								
TW-6	21-May-14	5463.57		25.05		5438.52	NM	NM	NM	NM	NA
	05-Aug-14	5463.57		25.46		5438.11	NM	NM	NM	NM	NA
	05-Dec-14	5463.57		25.54		5438.03	NM	NM	NM	NM	NA
	13-Apr-15	5463.57		25.22		5438.35	NM	NM	NM	NM	NA
	17-Jun-15	5463.57		25.11		5438.46	NM	NM	NM	NM	NA
	16-Feb-16	5463.57		25.44		5438.13	7.44	4.434	16.20	-30.4	4
	07-Sep-16	5463.57		25.76		5437.81	NM	NM	NM	NM	NA
TW-7	21-May-14	5461.17	22.43	22.80	0.37	5438.68	NM	NM	NM	NM	NA
	05-Aug-14	5461.17	22.69	23.77	1.08	5438.29	NM	NM	NM	NM	NA
	10-Dec-14	5461.17	22.72	23.95	1.23	5438.24	NM	NM	NM	NM	NA
	13-Apr-15	5461.17	22.51	23.20	0.69	5438.54	NM	NM	NM	NM	NA
	17-Jun-15	5461.17	22.45	23.01	0.56	5438.62	NM	NM	NM	NM	NA
	16-Feb-16	5461.17	22.70	23.76	1.06	5438.29	NM	NM	NM	NM	NA
	07-Sep-16	5461.17		23.29		5437.88	NM	NM	NM	NM	NA
TW-8	29-May-14	5458.29		19.96		5438.33	7.58	2.000	12.12	64.4	3.7
	05-Aug-14	5458.29		20.48		5437.81	NM	NM	NM	NM	NA
	10-Dec-14	5458.29		20.41		5437.88	7.50	4.124	11.14	252.7	3
	13-Apr-15	5458.29		20.03		5438.26	NM	NM	NM	NM	NA
	17-Jun-15	5458.29		20.03		5438.26	NM	NM	NM	NM	NA
	16-Feb-16	5458.29		20.30		5437.99	7.15	4.318	14.29	-11.7	4
	07-Sep-16	5458.29		20.74		5437.55	NM	NM	NM	NM	NA

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Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-9	29-May-14	5450.61		12.51		5438.10	NM	NM	NM	NM	NA
	05-Aug-14	5450.61		13.13		5437.48	NM	NM	NM	NM	NA
	05-Dec-14	5450.61		12.87		5437.74	NM	NM	NM	NM	NA
	13-Apr-15	5450.61		12.46		5438.15	NM	NM	NM	NM	NA
	17-Jun-15	5450.61		12.56		5438.05	NM	NM	NM	NM	NA
	16-Feb-16	5450.61		12.74		5437.87	7.59	2.154	13.12	-35.5	4.00
	07-Sep-16	5450.61		13.36		5437.25	NM	NM	NM	NM	NA
TW-10	21-May-14	5450.16		12.71		5437.45	NM	NM	NM	NM	NA
	05-Aug-14	5450.16		13.29		5436.87	NM	NM	NM	NM	NA
	05-Dec-14	5450.16		13.02		5437.14	NM	NM	NM	NM	NA
	13-Apr-15	5450.16		12.64		5437.52	NM	NM	NM	NM	NA
	17-Jun-15	5450.16		12.75		5437.41	NM	NM	NM	NM	NA
	16-Feb-16	5450.16		12.87		5437.29	7.35	2.598	12.74	-22.4	4
	07-Sep-16	5450.16		13.45		5436.71	NM	NM	NM	NM	NA
TW-11	21-May-14	5456.31		18.37		5437.94	NM	NM	NM	NM	NA
	05-Aug-14	5456.31		18.79		5437.52	NM	NM	NM	NM	NA
	05-Dec-14	5456.31		18.83		5437.48	NM	NM	NM	NM	NA
	13-Apr-15	5456.31		19.49		5436.82	NM	NM	NM	NM	NA
	17-Jun-15	5456.31		18.45		5437.86	NM	NM	NM	NM	NA
	17-Feb-16	5456.31		18.72		5437.59	7.53	7.106	14.34	-30.2	4
	08-Sep-16	5456.31		19.12		5437.19	7.62	6.870	16.55	-38.1	1
TW-12	21-May-14	5460.44	22.65	22.74	0.09	5437.77	NM	NM	NM	NM	NA
	05-Aug-14	5460.44	23.02	23.30	0.28	5437.37	NM	NM	NM	NM	NA
	05-Dec-14	5460.44	23.06	23.46	0.40	5437.31	NM	NM	NM	NM	NA
	13-Apr-15	5460.44	22.80	22.87	0.07	5437.63	NM	NM	NM	NM	NA
	17-Jun-15	5460.44	22.80	22.87	0.07	5437.63	NM	NM	NM	NM	NA
	17-Feb-16	5460.44	23.00	23.20	0.20	5437.41	NM	NM	NM	NM	NA
	07-Sep-16	5460.44	23.29	24.10	0.81	5437.01	NM	NM	NM	NM	NA

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Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-13	21-May-14	5458.17	20.84	21.69	0.85	5437.18	NM	NM	NM	NM	NA
	05-Aug-14	5458.17	21.25	22.29	1.04	5436.74	NM	NM	NM	NM	NA
	10-Dec-14	5458.17	21.25	22.15	0.90	5436.76	NM	NM	NM	NM	NA
	13-Apr-15	5458.17	21.00	21.55	0.55	5437.07	NM	NM	NM	NM	NA
	17-Jun-15	5458.17	20.96	21.52	0.56	5437.11	NM	NM	NM	NM	NA
	17-Feb-16	5458.17	21.17	21.91	0.74	5436.87	NM	NM	NM	NM	NA
	07-Sep-16	5458.17	21.50	22.81	1.31	5436.44	NM	NM	NM	NM	NA
TW-14	21-May-14	5454.24	17.27	17.60	0.33	5436.91	NM	NM	NM	NM	NA
	05-Aug-14	5454.24	17.53	18.53	1.00	5436.54	NM	NM	NM	NM	NA
	10-Dec-14	5454.24	17.56	18.71	1.15	5436.48	NM	NM	NM	NM	NA
	13-Apr-15	5454.24	17.39	17.64	0.25	5436.81	NM	NM	NM	NM	NA
	17-Jun-15	5454.24	17.35	17.50	0.15	5436.86	NM	NM	NM	NM	NA
	17-Feb-16	5454.24	17.58	18.03	0.45	5436.58	NM	NM	NM	NM	NA
	07-Sep-16	5454.24	17.93	18.56	0.63	5436.20	NM	NM	NM	NM	NA
TW-15	29-May-14	5450.44		13.40		5437.04	7.64	3.173	14.37	58.4	4.3
	05-Aug-14	5450.44		13.92		5436.52	NM	NM	NM	NM	NA
	05-Dec-14	5450.44		13.75		5436.69	NM	NM	NM	NM	NA
	13-Apr-15	5450.44		13.40		5437.04	NM	NM	NM	NM	NA
	17-Jun-15	5450.44		13.45		5436.99	NM	NM	NM	NM	NA
	17-Feb-16	5450.44		13.54		5436.90	7.25	5.148	14.04	-18.0	4
	08-Sep-16	5450.44		14.08		5436.36	7.32	5.170	16.84	-21.7	1
TW-16	21-May-14	5448.45	NM, WELL PLUGGED WITH TREE ROOTS								
	05-Aug-14	5448.45	NM, WELL PLUGGED WITH TREE ROOTS								
	05-Dec-14	5448.45		11.22			NM	NM	NM	NM	NA
	13-Apr-15	5448.45		11.56			NM	NM	NM	NM	NA
	17-Jun-15	5448.45		10.75			NM	NM	NM	NM	NA
	17-Feb-16	5448.45		11.72		5436.73	7.46	3.590	12.53	-27.7	4
	07-Sep-16	5448.45		12.47		5435.98	NM	NM	NM	NM	NA

TABLE 1
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Well ID	Date	T.O.C. (ft amsl)	Depth to Product (ft)	Depth to Water (ft)	NAPL Thickness (ft)	Corrected GW (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-17	21-May-14	5446.24		10.25		5435.99	NM	NM	NM	NM	NA
	05-Aug-14	5446.24		10.77		5435.47	NM	NM	NM	NM	NA
	05-Dec-14	5446.24		10.43		5435.81	NM	NM	NM	NM	NA
	13-Apr-15	5446.24		10.12		5436.12	NM	NM	NM	NM	NA
	17-Jun-15	5446.24		10.24		5436.00	NM	NM	NM	NM	NA
	17-Feb-16	5446.24		10.69		5435.55	7.59	4.682	12.39	-36.2	4
	07-Sep-16	5446.24		10.75		5435.49	NM	NM	NM	NM	NA
TW-18	21-May-14	5452.73		16.59		5436.14	NM	NM	NM	NM	NA
	05-Aug-14	5452.73		16.96		5435.77	NM	NM	NM	NM	NA
	10-Dec-14	5452.73		16.95		5435.78	7.70	6.835	14.93	96.3	3
	13-Apr-15	5452.73		16.64		5436.09	NM	NM	NM	NM	NA
	17-Jun-15	5452.73		16.62		5436.11	NM	NM	NM	NM	NA
	17-Feb-16	5452.73		16.79		5435.94	7.38	7.294	16.2	-24.5	4
	08-Sep-16	5452.73		17.23		5435.50	7.41	7.380	17.43	-26.8	1
TW-19	21-May-14	5458.49	17.83	18.03	0.20	5440.63	NM	NM	NM	NM	NA
	05-Aug-14	5458.49	18.07	18.80	0.73	5440.29	NM	NM	NM	NM	NA
	10-Dec-14	5458.49	18.13	18.85	0.72	5440.24	NM	NM	NM	NM	NA
	13-Apr-15	5458.49		17.95		5440.54	NM	NM	NM	NM	NA
	17-Jun-15	5458.49		17.90		5440.59	NM	NM	NM	NM	NA
	17-Feb-16	5458.49	18.09	18.30	0.21	5440.36	NM	NM	NM	NM	NA
	07-Sep-16	5458.49	18.30	19.19	0.89	5440.04	NM	NM	NM	NM	NA
TW-20	21-May-14	5453.74	17.64	18.95	1.31	5435.87	NM	NM	NM	NM	NA
	05-Aug-14	5453.74	17.89	20.28	2.39	5435.44	NM	NM	NM	NM	NA
	10-Dec-14	5453.74	17.98	18.51	0.53	5435.67	NM	NM	NM	NM	NA
	13-Apr-15	5453.74	17.77	18.77	1.00	5435.80	NM	NM	NM	NM	NA
	17-Jun-15	5453.74	17.79	18.73	0.94	5435.79	NM	NM	NM	NM	NA
	17-Feb-16	5453.74	17.97	18.49	0.52	5435.68	NM	NM	NM	NM	NA
	07-Sep-16	5453.74	18.29	19.75	1.46	5435.20	NM	NM	NM	NM	NA

TABLE 1
SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-21	21-May-14	5451.85	16.68	16.75	0.07	5435.16	NM	NM	NM	NM	NA
	05-Aug-14	5451.85	16.86	17.55	0.69	5434.87	NM	NM	NM	NM	NA
	05-Dec-14	5451.85	16.90	17.77	0.87	5434.80	NM	NM	NM	NM	NA
	13-Apr-15	5451.85	16.73	16.79	0.06	5435.11	NM	NM	NM	NM	NA
	17-Jun-15	5451.85		16.68		5435.17	NM	NM	NM	NM	NA
	17-Feb-16	5451.85	16.84	17.15	0.31	5434.96	NM	NM	NM	NM	NA
	07-Sep-16	5451.85	16.98	18.07	1.09	5434.68	NM	NM	NM	NM	NA
TW-22	29-May-14	5450.19		15.08		5435.11	7.58	2.744	16.63	89.3	3.0
	05-Aug-14	5450.19	15.29	15.79	0.50	5434.81	NM	NM	NM	NM	NA
	10-Dec-14	5450.19	15.35	15.55	0.20	5434.81	NM	NM	NM	NM	NA
	13-Apr-15	5450.19		15.10		5435.09	NM	NM	NM	NM	NA
	17-Jun-15	5450.19		15.06		5435.13	NM	NM	NM	NM	NA
	17-Feb-16	5450.19		15.24		5434.95	7.20	4.289	15.95	-14.7	4
	08-Sep-16	5450.19	15.55	15.71	0.16	5434.61	NM	NM	NM	NM	NA
TW-23	21-May-14	5443.64	Not Measured - Root Growth at 9.0'								
	05-Aug-14	5443.64	Not Measured - Root Growth at 9.0'								
	10-Dec-14	5443.64		9.36		5434.28	7.69	5.962	12.57	102.7	3.0
	13-Apr-15	5443.64		9.00		5434.64	NM	NM	NM	NM	NA
	17-Jun-15	5443.64		8.90		5434.74	NM	NM	NM	NM	NA
	17-Feb-16	5443.64		9.07		5434.57	7.3	5.703	10.53	-18.7	4
	07-Sep-16	5443.64		9.60		5434.04	NM	NM	NM	NM	NA
TW-24	21-May-14	5444.79		11.10		5433.69	NM	NM	NM	NM	NA
	05-Aug-14	5444.79	11.41	11.43	0.02	5433.38	NM	NM	NM	NM	NA
	10-Dec-14	5444.79		11.22		5433.57	7.72	5.620	15.13	214.3	3
	17-Jun-15	5444.79		10.96		5433.83	7.72	5.620	15.13	214.3	3
	17-Feb-16	5444.79		11.02		5433.77	7.36	6.110	14.21	-23.4	4
	07-Sep-16	5444.79		11.36		5433.43	NM	NM	NM	NM	NA

TABLE 1
SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-25	19-Feb-14	5448.80	14.37	14.51	0.14	5434.41	NM	NM	NM	NM	NA
	21-May-14	5448.80	14.33	14.37	0.04	5434.46	NM	NM	NM	NM	NA
	05-Aug-14	5448.80	14.52	15.04	0.52	5434.19	NM	NM	NM	NM	NA
	10-Dec-14	5448.80	14.57	15.05	0.48	5434.15	NM	NM	NM	NM	NA
	17-Jun-15	5448.80	14.32			5448.80	NM	NM	NM	NM	NA
	17-Feb-16	5448.80	14.46	14.69	0.23	5434.30	NM	NM	NM	NM	NA
	07-Sep-16	5448.80	14.66	15.32	0.66	5434.03	NM	NM	NM	NM	NA
TW-26	19-Feb-14	5450.34	16.09	16.84	0.75	5434.12	NM	NM	NM	NM	NA
	21-May-14	5450.34	16.02	16.52	0.50	5434.23	NM	NM	NM	NM	NA
	05-Aug-14	5450.34	16.16	17.23	1.07	5433.99	NM	NM	NM	NM	NA
	10-Dec-14	5450.34	16.25	17.40	1.15	5433.89	NM	NM	NM	NM	NA
	17-Jun-15	5450.34	16.05	16.24	0.19	5434.26	NM	NM	NM	NM	NA
	17-Feb-16	5450.34	16.18	16.79	0.61	5434.05	NM	NM	NM	NM	NA
	07-Sep-16	5450.34	16.31	17.52	1.21	5433.82	NM	NM	NM	NM	NA
TW-28	19-Feb-14	5449.24	15.45	16.38	0.93	5433.63	NM	NM	NM	NM	NA
	21-May-14	5449.24	15.37	16.14	0.77	5433.74	NM	NM	NM	NM	NA
	05-Aug-14	5449.24	15.50	16.76	1.26	5433.52	NM	NM	NM	NM	NA
	10-Dec-14	5449.24	15.59	17.00	1.41	5433.41	NM	NM	NM	NM	NA
	17-Jun-15	5449.24	15.33	16.00	0.67	5433.79	NM	NM	NM	NM	NA
	17-Feb-16	5448.89	15.13	16.14	1.01	5433.59	NM	NM	NM	NM	NA
	07-Sep-16	5448.89	15.38	16.75	1.37	5433.27	NM	NM	NM	NM	NA
TW-29	19-Feb-14	5441.87		9.30		5432.57	NM	NM	NM	NM	NA
	21-May-14	5441.87	9.33	9.53	0.20	5432.51	NM	NM	NM	NM	NA
	05-Aug-14	5441.87	9.55	10.29	0.74	5432.19	NM	NM	NM	NM	NA
	10-Dec-14	5441.87	9.42	9.61	0.19	5432.42	NM	NM	NM	NM	NA
	17-Jun-15	5441.87		9.19		5432.68	NM	NM	NM	NM	NA
	19-Feb-16	5441.87		9.27		5432.60	7.35	3.485	13.59	-23.50	4
	08-Sep-16	5441.87	9.51	9.78	0.27	5432.31	NM	NM	NM	NM	NA

TABLE 1
SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-30	19-Feb-14	5437.93		5.96		5431.97	NM	NM	NM	NM	NA
	21-May-14	5437.93		6.18		5431.75	NM	NM	NM	NM	NA
	05-Aug-14	5437.93		6.30		5431.63	NM	NM	NM	NM	NA
	10-Dec-14	5437.93		6.03		5431.90	7.66	5.462	12.95	129.0	3
	17-Jun-15	5437.93		6.00		5431.93	7.66	5.462	12.95	129.0	3
	19-Feb-16	5437.93		5.86		5432.07	7.19	5.465	9.33	-13.7	4
	07-Sep-16	5437.93	NM, WASP NEST IN WELL								
TW-31	19-Feb-14	5438.54		7.04		5431.50	NM	NM	NM	NM	NA
	21-May-14	5438.54		7.19		5431.35	NM	NM	NM	NM	NA
	05-Aug-14	5438.54		7.43		5431.11	NM	NM	NM	NM	NA
	10-Dec-14	5438.54		7.10		5431.44	7.72	5.550	12.99	87.1	3
	17-Jun-15	5438.54		7.02		5431.52	7.72	5.550	12.99	87.1	3
	19-Feb-16	5438.54		7.01		5431.53	7.33	5.426	10.04	-21.9	4
	07-Sep-16	5438.54		7.35		5431.19	NM	NM	NM	NM	NA
TW-32	19-Feb-14	5441.61	9.30	10.32	1.02	5432.13	NM	NM	NM	NM	NA
	21-May-14	5441.61	9.30	10.20	0.90	5432.15	NM	NM	NM	NM	NA
	05-Aug-14	5441.61	9.54	10.52	0.98	5431.90	NM	NM	NM	NM	NA
	10-Dec-14	5441.61	9.48	10.70	1.22	5431.92	NM	NM	NM	NM	NA
	17-Jun-15	5441.61	9.20	9.40	0.20	5432.38	NM	NM	NM	NM	NA
	19-Feb-16	5441.61	9.36	10.31	0.95	5432.09	NM	NM	NM	NM	NA
	07-Sep-16	5441.61	9.51	10.47	0.96	5431.93	NM	NM	NM	NM	NA
TW-33	19-Feb-14	5445.85	13.00	13.57	0.57	5432.75	NM	NM	NM	NM	NA
	21-May-14	5445.85	12.91	13.31	0.40	5432.87	NM	NM	NM	NM	NA
	05-Aug-14	5445.85	13.05	14.09	1.04	5432.62	NM	NM	NM	NM	NA
	10-Dec-14	5445.85	13.12	14.10	0.98	5432.56	NM	NM	NM	NM	NA
	17-Jun-15	5445.85	12.85	13.25	0.40	5432.93	NM	NM	NM	NM	NA
	19-Feb-16	5445.85	13.03	13.71	0.68	5432.70	NM	NM	NM	NM	NA
	19-Feb-16	5445.85	13.11	14.10	0.99	5432.57	NM	NM	NM	NM	NA

TABLE 1
SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-34	28-May-14	5455.80		20.13		5435.67	NM	NM	NM	NM	NA
	05-Aug-14	5455.80		20.72		5435.08	NM	NM	NM	NM	NA
	05-Dec-14	5455.80		20.47		5435.33	NM	NM	NM	NM	NA
	17-Jun-15	5455.80		20.20		5435.60	NM	NM	NM	NM	NA
	23-Feb-16	5455.80		20.27		5435.53	7.14	7.126	14.04	-12.9	4
	08-Sep-16	5455.80		20.85		5434.95	7.37	6.730	15.86	-24.3	1
TW-35	28-May-14	5449.14	15.17	15.90	0.73	5433.84	NM	NM	NM	NM	NA
	05-Aug-14	5449.14	15.33	16.52	1.19	5433.60	NM	NM	NM	NM	NA
	05-Dec-14	5449.14	15.42	16.53	1.11	5433.53	NM	NM	NM	NM	NA
	13-Apr-15	5449.14	15.23	15.68	0.45	5433.83	NM	NM	NM	NM	NA
	17-Jun-15	5449.14	15.18	15.58	0.40	5433.89	NM	NM	NM	NM	NA
	23-Feb-16	5449.14	15.37	15.84	0.47	5433.69	NM	NM	NM	NM	NA
	23-Feb-16	5449.14	15.55	16.26	0.71	5433.47	NM	NM	NM	NM	NA
TW-36	29-May-14	5441.91		12.95		5428.96	7.44	4.425	17.40	70.6	3.0
	05-Aug-14	5441.91	13.24	13.41	0.17	5428.64	NM	NM	NM	NM	NA
	10-Dec-14	5441.91	13.27	13.44	0.17	5428.61	NM	NM	NM	NM	NA
	13-Apr-15	5441.91		12.97		5428.94	NM	NM	NM	NM	NA
	17-Jun-15	5441.91		12.85		5429.06	NM	NM	NM	NM	NA
	22-Feb-16	5441.91		13.19		5428.72	7.18	6.502	14.97	-13.7	4
	08-Sep-16	5441.91		13.30		5428.61	7.45	7.270	18.28	-28.6	1
TW-37	29-May-14	5439.59		10.41		5429.18	7.50	3.269	15.83	27.7	3.0
	05-Aug-14	5439.59		10.73		5428.86	NM	NM	NM	NM	NA
	10-Dec-14	5439.59		10.81		5428.78	7.74	4.255	14.47	101.6	3.0
	13-Apr-15	5439.59		10.47		5429.12	NM	NM	NM	NM	NA
	18-Jun-15	5439.59		10.45		5429.14	NM	NM	NM	NM	NA
	25-Feb-16	5439.59		10.70		5428.89	7.28	4.271	12.7	-19.2	4
	08-Sep-16	5439.59		10.80		5428.79	7.32	4.560	19.34	-21.9	1

TABLE 1
SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-38	29-May-14	5442.11		11.44		5430.67	7.61	3.769	15.62	68.0	3.0
	05-Aug-14	5442.11	11.68	11.82	0.14	5430.41	NM	NM	NM	NM	NA
	10-Dec-14	5442.11	11.75	11.82	0.07	5430.35	NM	NM	NM	NM	NA
	13-Apr-15	5442.11		11.43		5430.68	NM	NM	NM	NM	NA
	18-Jun-15	5442.11		11.41		5430.70	NM	NM	NM	NM	NA
	25-Feb-16	5442.11		11.64		5430.47	7.49	4.485	13.74	-35.3	4
	08-Sep-16	5442.11	11.73	11.76	0.03	5430.37	NM	NM	NM	NM	NA
TW-39	29-May-14	5438.43		7.75		5430.68	7.59	3.847	15.51	44.5	3.0
	05-Aug-14	5438.43		8.19		5430.24	NM	NM	NM	NM	NA
	11-Dec-14	5438.43		7.97		5430.46	7.84	4.191	11.20	-86.0	NA
	13-Apr-15	5438.43		7.51		5430.92	NM	NM	NM	NM	NA
	18-Jun-15	5438.43		7.60		5430.83	NM	NM	NM	NM	NA
	19-Feb-16	5438.43		7.78		5430.65	7.37	4.201	9.63	-24.3	4
	08-Sep-16	5438.43		8.05		5430.38	7.43	4.100	21.36	-28.3	1
TW-40	28-May-14	5437.50	7.59	7.61	0.02	5429.91	NM	NM	NM	NM	NA
	05-Aug-14	5437.50	8.22	8.43	0.21	5429.24	NM	NM	NM	NM	NA
	10-Dec-14	5437.50	7.89	7.97	0.08	5429.60	NM	NM	NM	NM	NA
	13-Apr-15	5437.50	7.36	7.51	0.15	5430.11	NM	NM	NM	NM	NA
	18-Jun-15	5437.50	7.47	7.61	0.14	5430.01	NM	NM	NM	NM	NA
	22-Feb-16	5437.50	7.75	8.00	0.25	5429.71	NM	NM	NM	NM	NA
	22-Feb-16	5437.50	8.08	8.22	0.14	5429.40	NM	NM	NM	NM	NA
TW-41	29-May-14	5434.77		5.65		5429.12	7.60	5.438	15.45	65.7	NA
	05-Aug-14	5434.77		6.11		5428.66	NM	NM	NM	NM	NA
	11-Dec-14	5434.77		6.23		5428.54	7.76	4.746	10.91	68.2	3
	13-Apr-15	5434.77		5.67		5429.10	NM	NM	NM	NM	NA
	18-Jun-15	5434.77		5.63		5429.14	NM	NM	NM	NM	NA
	22-Feb-16	5434.77		6.05		5428.72	6.99	5.896	7.89	-3.0	4
	08-Sep-16	5434.77		6.28		5428.49	7.29	6.550	20.93	-20.3	1

TABLE 1
SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-42	29-May-14	5433.76		4.59		5429.17	NM	NM	14.97	NM	NA
	05-Aug-14	5433.76		5.39		5428.37	NM	NM	NM	NM	NA
	11-Dec-14	5433.76		6.30		5427.46	7.84	5.338	11.46	43.8	3
	13-Apr-15	5433.76		5.80		5427.96	NM	NM	NM	NM	NA
	18-Jun-15	5433.76		5.80		5427.96	NM	NM	NM	NM	NA
	22-Feb-16	5433.76		6.46		5427.30	7.39	5.909	8.54	-24.7	4
	08-Sep-16	5433.76		6.34		5427.42	7.37	6.460	20.86	-24.8	1
TW-43	30-May-14	5440.42		11.92		5428.50	7.31	3.315	15.38	105.6	1
	05-Aug-14	5440.42		12.25		5428.17	NM	NM	NM	NM	NA
	11-Dec-14	5440.42		12.42		5428.00	7.74	5.047	14.11	218.3	3
	13-Apr-15	5440.42		12.07		5428.35	NM	NM	NM	NM	NA
	18-Jun-15	5440.42		12.04		5428.38	NM	NM	NM	NM	NA
	22-Feb-16	5440.42		12.33		5428.09	7.12	5.159	13.14	-9.9	4
	08-Sep-16	5440.42		12.49		5427.93	7.23	5.140	18.98	-16.3	1
TW-44	28-May-14	5444.08	14.77	15.75	0.98	5429.14	NM	NM	NM	NM	NA
	05-Aug-14	5444.08	15.05	16.12	1.07	5428.84	NM	NM	NM	NM	NA
	10-Dec-14	5444.08	15.13	16.21	1.08	5428.76	NM	NM	NM	NM	NA
	13-Apr-15	5444.08	14.82	15.80	0.98	5429.09	NM	NM	NM	NM	NA
	18-Jun-15	5444.08	14.77	15.70	0.93	5429.15	NM	NM	NM	NM	NA
	22-Feb-16	5444.08	15.19	15.31	0.12	5428.87	NM	NM	NM	NM	NA
	07-Sep-16	5444.08	15.23	15.49	0.26	5428.81	NM	NM	NM	NM	NA
TW-45	30-May-14	TBS		6.73			7.34	3.986	14.13	119.0	3
	05-Aug-14	TBS		7.10			NM	NM	NM	NM	NA
	11-Dec-14	TBS		7.15			7.78	5.450	11.95	188.1	3
	13-Apr-15	TBS		6.80			NM	NM	NM	NM	NA
	18-Jun-15	TBS		6.84			NM	NM	NM	NM	NA
	23-Feb-16	TBS		7.05			7.16	5.190	8.47	-12.2	4
	08-Sep-16	TBS		7.28			7.24	5.248	19.21	-17.2	1

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SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-46	28-May-14	TBS		6.91			NM	NM	NM	NM	NA
	05-Aug-14	TBS		7.25			NM	NM	NM	NM	NA
	11-Dec-14	TBS		7.51			7.81	7.631	12.22	91.6	3
	13-Apr-15	TBS		7.11			NM	NM	NM	NM	NA
	18-Jun-15	TBS		7.11			NM	NM	NM	NM	NA
	23-Feb-16	TBS		7.44			7.41	6.827	8.84	-25.1	4
	08-Sep-16	TBS		7.61			7.52	6.120	20.39	-33.1	1
TW-47	28-May-14	TBS		6.61			NM	NM	NM	NM	NA
	05-Aug-14	TBS		7.26			NM	NM	NM	NM	NA
	11-Dec-14	TBS		6.90			7.89	11.54	12.28	118.2	3
	13-Apr-15	TBS		6.39			NM	NM	NM	NM	NA
	18-Jun-15	TBS		6.53			NM	NM	NM	NM	NA
	26-Feb-16	TBS		6.98			7.28	10.32	9.56	-18.7	4
	08-Sep-16	TBS		7.43			7.40	9.530	20.86	-26.4	1
TW-48	28-May-14	TBS	Not Measured - Root Growth at 7.0'								
	05-Aug-14	TBS	Not Measured - Root Growth at 7.0'								
	12-Dec-14	TBS		7.32			7.69	4.862	10.63	17.4	3
	13-Apr-15	TBS		7.12			NM	NM	NM	NM	NA
	18-Jun-15	TBS		7.19			NM	NM	NM	NM	NA
	19-Feb-16	TBS		6.93			7.25	4.726	8.74	-16.8	4
	07-Sep-16	TBS		6.98			NM	NM	NM	NM	NA
TW-49	28-May-14	TBS		6.34			NM	NM	NM	NM	NA
	05-Aug-14	TBS		6.31			NM	NM	NM	NM	NA
	12-Dec-14	TBS		6.03			NM	NM	NM	NM	NA
	13-Apr-15	TBS		5.70			NM	NM	NM	NM	NA
	18-Jun-15	TBS		5.84			NM	NM	NM	NM	NA
	26-Feb-16	TBS		5.85			7.14	8.25	6.65	-11.30	2
	07-Sep-16	WELL DESTROYED									

TABLE 1
SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-50	28-May-14	TBS	9.09	9.48	0.39		NM	NM	NM	NM	NA
	05-Aug-14	TBS	9.41	9.81	0.40		NM	NM	NM	NM	NA
	10-Dec-14	TBS	7.99	8.36	0.37		NM	NM	NM	NM	NA
	13-Apr-15	TBS	7.68	8.02	0.34		NM	NM	NM	NM	NA
	18-Jun-15	TBS	7.65	7.98	0.33		NM	NM	NM	NM	NA
	26-Feb-16	TBS	7.88	8.21	0.33		NM	NM	NM	NM	NA
	07-Sep-16	TBS	8.05	8.40	0.35		NM	NM	NM	NM	NA
TW-51	28-May-14	TBS		6.69			NM	NM	NM	NM	NA
	05-Aug-14	TBS		7.06			NM	NM	NM	NM	NA
	12-Dec-14	TBS		7.12			7.77	6.681	11.08	102.1	3
	13-Apr-15	TBS		6.73			NM	NM	NM	NM	NA
	18-Jun-15	TBS		6.73			NM	NM	NM	NM	NA
	26-Feb-16	TBS		7.02			7.25	6.463	8.22	-17.3	4
	08-Sep-16	TBS		7.25			7.21	6.770	21.68	-15.6	1
TW-52	30-May-14	TBS		7.15			7.42	6.654	15.05	102.5	1
	05-Aug-14	TBS		7.59			NM	NM	NM	NM	NA
	12-Dec-14	TBS		7.57			7.73	7.092	10.92	101.0	3
	13-Apr-15	TBS		7.17			NM	NM	NM	NM	NA
	18-Jun-15	TBS		7.09			NM	NM	NM	NM	NA
	26-Feb-16	TBS		7.45			7.17	6.911	7.92	-13.4	4
	08-Sep-16	TBS		7.70			7.27	8.040	20.52	-18.6	1
TW-53	28-May-14	TBS		6.90			NM	NM	NM	NM	NA
	05-Aug-14	TBS		7.38			NM	NM	NM	NM	NA
	12-Dec-14	TBS		7.33			7.80	8.208	11.38	112.8	NA
	13-Apr-15	TBS		6.93			NM	NM	NM	NM	NA
	18-Jun-15	TBS		6.90			NM	NM	NM	NM	NA
	26-Feb-16	TBS		7.17			7.47	8.811	8.97	-28.9	4
	08-Sep-16	TBS		7.35			7.46	8.670	20.65	-31.1	1

TABLE 1
SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
TW-54	19-Feb-14	TBS		7.39			NM	NM	NM	NM	NA
	30-May-14	TBS		7.29			7.43	4.642	13.93	82.4	3
	05-Aug-14	TBS		7.74			NM	NM	NM	NM	NA
	12-Dec-14	TBS		7.74			7.81	5.671	12.11	159.9	NA
	13-Apr-15	TBS		7.33			NM	NM	NM	NM	NA
	13-Apr-15	TBS		7.31			NM	NM	NM	NM	NA
	26-Feb-16	TBS		7.63			7.52	5.987	9.49	-31.9	4
	08-Sep-16	TBS		8.01			7.53	6.540	20.29	-33.6	1
MW-4	19-Feb-16	5430.12		5.35		5424.77	7.37	5.477	9.66	-22.8	4
	08-Sep-16	5430.12		5.39		5424.73	7.47	5.780	21.40	-30.6	1
MW-5	19-Feb-14	5428.97		DRY			NM	NM	NM	NM	NA
	28-May-14	5428.97		DRY			NM	NM	NM	NM	NA
	05-Aug-14	5428.97		DRY			NM	NM	NM	NM	NA
	12-Dec-14	5428.97		DRY			NM	NM	NM	NM	NA
	13-Apr-15	5428.97		4.76		5424.21	NM	NM	NM	NM	NA
	18-Jun-15	5428.97		4.83		5424.14	NM	NM	NM	NM	NA
	08-Sep-16	5428.97		5.71		5423.26	7.89	5.590	19.24	-53.8	1
MW-6	19-Feb-16	5430.70		4.76		5425.94	7.58	7.378	10.79	-35.2	4
	08-Sep-16	5430.70		5.02		5425.68	7.47	6.390	20.47	-30.0	1
MW-7	30-May-14	5435.28		8.44		5426.84	7.45	4.784	14.54	63.0	3
	05-Aug-14	5435.28		9.16		5426.12	NM	NM	NM	NM	NA
	12-Dec-14	5435.28		8.69		5426.59	8.07	5.356	12.11	-60.5	NA
	13-Apr-15	5435.28		8.10		5427.18	NM	NM	NM	NM	NA
	18-Jun-15	5435.28		8.19		5427.09	NM	NM	NM	NM	NA
	19-Feb-16	5435.28		8.53		5426.75	7.45	5.653	9.13	-28.4	4
	08-Sep-16	5435.28		8.96		5426.32	7.29	12.200	20.34	-19.8	1
MW-9	01-Mar-16	5436.69		6.05		5430.64	7.52	6.094	7.81	-31.6	4
	08-Sep-16	5436.69		NM			NM	NM	NM	NM	NA

TABLE 1
SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MW-10	01-Mar-16	5437.78		5.58		5432.20	7.68	4.85	8.47	-41.4	4
	01-Mar-16	5437.78		5.58		5432.20	7.68	4.85	8.47	-41.4	4
	08-Sep-16	5437.78		NM			NM	NM	NM	NM	NA
MW-12	25-Feb-16	5446.09	14.60	15.30	0.70	5431.37	NM	NM	NM	NM	NM
	08-Sep-16	5446.09	14.60	15.30	0.70	5431.37	NM	NM	NM	NM	NM
	08-Sep-16	5446.09	14.8	16.15	1.35	5431.06	NM	NM	NM	NM	NA
MW-13	25-Feb-16	5452.12		18.29		5433.83	7.31	5.564	14.97	-20.9	4
	25-Feb-16	5452.12		18.29		5433.83	7.31	5.564	14.97	-20.9	4
	08-Sep-16	5452.12		18.74		5433.38	7.38	5.584	15.90	-25.2	1
MW-16	25-Feb-16	5442.63		9.08		5433.55	7.65	3.815	13.05	-35.4	4
	08-Sep-16	5442.63		NM			NM	NM	NM	NM	NA
MW-17	25-Feb-16	5435.20		6.09		5429.11	7.20	3.931	12.10	-14.8	4
	08-Sep-16	5435.20		6.33		5428.87	7.25	4.870	20.06	-17.6	1
MW-18	25-Feb-16	5428.95		4.11		5424.84	7.26	6.494	9.93	-15.1	4
	08-Sep-16	5428.95		4.21		5424.74	7.50	4.360	20.68	-32.1	1
MW-19	25-Feb-16	5428.69		3.96		5424.73	7.41	6.554	9.35	-25.8	4
	08-Sep-16	5428.69		4.13		5424.56	7.34	6.660	20.18	-23.2	1
MW-20	30-May-14	5430.45		5.44		5425.01	7.33	5.063	13.73	56.3	3
	05-Aug-14	5430.45		5.80		5424.65	NM	NM	NM	NM	NA
	11-Dec-14	5430.45		6.14		5424.31	7.80	6.621	11.73	73.6	3
	13-Apr-15	5430.45		5.76		5424.69	NM	NM	NM	NM	NA
	18-Jun-15	5430.45		5.76		5424.69	NM	NM	NM	NM	NA
	23-Feb-16	5430.45		5.61		5424.84	7.33	5.387	7.7	-21.8	4
	08-Sep-16	5430.45		6.24		5424.21	7.32	8.340	19.86	-21.7	1

TABLE 1
SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MW-21	19-Feb-14	5428.62		3.53		5425.09	NM	NM	NM	NM	NA
	30-May-14	5428.62		3.34		5425.28	7.43	4.616	14.61	72.4	3
	05-Aug-14	5428.62		4.08		5424.54	NM	NM	NM	NM	NA
	11-Dec-14	5428.62		3.67		5424.95	7.78	6.235	12.57	163.4	NA
	13-Apr-15	5428.62		3.12		5425.50	NM	NM	NM	NM	NA
	18-Jun-15	5428.62		3.30		5425.32	NM	NM	NM	NM	NA
	26-Feb-16	5428.62		3.89		5424.73	7.24	6.388	10.15	-16.8	4
	08-Sep-16	5428.62		4.03		5424.59	7.28	7.020	21.13	-19.3	1
MW-23	28-Jul-04	5449.34		DRY			NM	NM	NM	NM	NA
	03-Jan-05	5449.34		DRY			NM	NM	NM	NM	NA
	26-Feb-16	5449.34		DRY			NM	NM	NM	NM	NA
	07-Sep-16	5449.34		NM			NM	NM	NM	NM	NA
MW-25	28-Jul-04	5448.74		DRY			NM	NM	NM	NM	NA
	03-Jan-05	5448.74		DRY			NM	NM	NM	NM	NA
	26-Feb-16	5448.74		DRY			NM	NM	NM	NM	NA
	07-Sep-16	5448.74		NM			NM	NM	NM	NM	NA
MW-27	28-Jul-04	5449.01		DRY			NM	NM	NM	NM	NA
	03-Jan-05	5449.01		DRY			NM	NM	NM	NM	NA
	26-Feb-16	5449.01		DRY			NM	NM	NM	NM	NA
	26-Feb-16	5449.01		NM			NM	NM	NM	NM	NA
	07-Sep-16	5449.01		NM			NM	NM	NM	NM	NA
RW-24	26-Feb-16	5447.73	16.36	17.09	0.73	5431.24	NM	NM	NM	NM	NA
	07-Sep-16	5447.73	16.65	18.14	1.49	5430.82	NM	NM	NM	NM	NA
RW-25	26-Feb-15	5448.68	17.12	17.77	0.65	5431.45	NM	NM	NM	NM	NA
	07-Sep-16	5448.68	17.25	18.79	1.54	5431.16	NM	NM	NM	NM	NA
MPE-1	18-Jun-15			24.01			NM	NM	NM	NM	NA
	18-Feb-16			24.34			NM	NM	NM	NM	NA
	07-Sep-16			24.72			NM	NM	NM	NM	NA

TABLE 1
SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MPE-2	18-Jun-15		21.90	21.98	0.08		NM	NM	NM	NM	NA
	18-Feb-16		22.19	22.32	0.13		NM	NM	NM	NM	NA
	07-Sep-16		22.29				NM	NM	NM	NM	NA
MPE-3	18-Jun-15			21.20			NM	NM	NM	NM	NA
	18-Feb-16			21.49			NM	NM	NM	NM	NA
	07-Sep-16			21.92			NM	NM	NM	NM	NA
MPE-4	18-Jun-15			20.39			NM	NM	NM	NM	NA
	18-Feb-16			20.68			NM	NM	NM	NM	NA
	07-Sep-16			21.10			NM	NM	NM	NM	NA
MPE-5	18-Jun-15		19.72	19.79	0.07		NM	NM	NM	NM	NA
	18-Feb-16		19.94	20.31	0.37		NM	NM	NM	NM	NA
	07-Sep-16		20.26	21.02	0.76		NM	NM	NM	NM	NA
MPE-6	18-Jun-15			20.07			NM	NM	NM	NM	NA
	18-Feb-16		20.30	20.58	0.28		NM	NM	NM	NM	NA
	07-Sep-16		20.75	20.99	0.24		NM	NM	NM	NM	NA
MPE-7	18-Jun-15			20.86			NM	NM	NM	NM	NA
	18-Feb-16		21.12	21.24	0.12		NM	NM	NM	NM	NA
	07-Sep-16		21.53	21.62	0.09		NM	NM	NM	NM	NA
MPE-8	18-Jun-15			22.15			NM	NM	NM	NM	NM
	18-Feb-16			22.44			NM	NM	NM	NM	NM
	07-Sep-16			22.84			NM	NM	NM	NM	NA
MPE-9	18-Jun-15			23.87			NM	NM	NM	NM	NA
	18-Feb-16			24.15			NM	NM	NM	NM	NA
	07-Sep-16			24.53			NM	NM	NM	NM	NA
MPE-10	18-Jun-15			23.67			NM	NM	NM	NM	NA
	18-Feb-16			23.94			NM	NM	NM	NM	NA
	07-Sep-16			24.33			NM	NM	NM	NM	NA

TABLE 1
SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MPE-11	18-Jun-15			22.25			NM	NM	NM	NM	NA
	18-Feb-16			22.10			NM	NM	NM	NM	NA
	07-Sep-16	NM, WELL PLUGGED WITH TREE ROOTS									
MPE-12	18-Jun-15			22.75			NM	NM	NM	NM	NA
	18-Feb-16			22.59			NM	NM	NM	NM	NA
	07-Sep-16	NM, WELL PLUGGED WITH TREE ROOTS									
MPE-13	18-Jun-15			23.1			NM	NM	NM	NM	NA
	18-Feb-16			23.37			NM	NM	NM	NM	NA
	07-Sep-16		23.64	24.31	0.67		NM	NM	NM	NM	NA
MPE-14	18-Jun-15			22.2			NM	NM	NM	NM	NA
	24-Feb-16			22.47			NM	NM	NM	NM	NA
	07-Sep-16		22.85	22.88	0.03		NM	NM	NM	NM	NA
MPE-16	18-Jun-15			20.33			NM	NM	NM	NM	NA
	24-Feb-16			20.61			NM	NM	NM	NM	NA
	07-Sep-16			21.00			NM	NM	NM	NM	NA
MPE-17	18-Jun-15			20.51			NM	NM	NM	NM	NA
	24-Feb-16		20.76	20.82	0.06		NM	NM	NM	NM	NA
	07-Sep-16			21.19			NM	NM	NM	NM	NA
MPE-18	18-Jun-15			19.65			NM	NM	NM	NM	NA
	24-Feb-16			19.90			NM	NM	NM	NM	NA
	07-Sep-16			20.31			NM	NM	NM	NM	NA
MPE-19	18-Jun-15			19.36			NM	NM	NM	NM	NA
	24-Feb-16			19.61			NM	NM	NM	NM	NA
	07-Sep-16			19.71			NM	NM	NM	NM	NA
MPE-20	18-Jun-15			19.11			NM	NM	NM	NM	NA
	24-Feb-16			19.35			NM	NM	NM	NM	NA
	07-Sep-16		19.74	19.75	0.01		NM	NM	NM	NM	NA

TABLE 1
SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MPE-21	18-Jun-15		20.22	20.81	0.59		NM	NM	NM	NM	NA
	24-Feb-16		20.41	21.15	0.74		NM	NM	NM	NM	NA
	07-Sep-16		20.64	22.21	1.57		NM	NM	NM	NM	NA
MPE-22	18-Jun-15		21.13	21.23	0.10		NM	NM	NM	NM	NA
	24-Feb-16		21.31	21.47	0.16		NM	NM	NM	NM	NA
	07-Sep-16	NM, WELL PLUGGED WITH TREE ROOTS									
MPE-23	18-Jun-15		21.16	21.18	0.02		NM	NM	NM	NM	NA
	24-Feb-16		21.38	21.40	0.02		NM	NM	NM	NM	NA
	07-Sep-16			21.78			NM	NM	NM	NM	NA
MPE-24	18-Jun-15		23.09	23.10	0.01		NM	NM	NM	NM	NA
	24-Feb-16			23.30			NM	NM	NM	NM	NA
	07-Sep-16		23.69	23.71	0.02		NM	NM	NM	NM	NA
MPE-25	18-Jun-15			23.48			NM	NM	NM	NM	NA
	24-Feb-16			23.65			NM	NM	NM	NM	NA
	07-Sep-16		24.05	24.06	0.01		NM	NM	NM	NM	NA
MPE-26	18-Jun-15		23.20	23.78	0.58		NM	NM	NM	NM	NA
	24-Feb-16		23.35	24.06	0.71		NM	NM	NM	NM	NA
	07-Sep-16		23.71	24.49	0.78		NM	NM	NM	NM	NA
MPE-27	18-Jun-15			22.33			NM	NM	NM	NM	NA
	24-Feb-16			22.35			NM	NM	NM	NM	NA
	07-Sep-16	NM, WELL PLUGGED WITH TREE ROOTS									
MPE-28	18-Jun-15			22.02			NM	NM	NM	NM	NA
	24-Feb-16			22.17			NM	NM	NM	NM	NA
	07-Sep-16			22.59			NM	NM	NM	NM	NA
MPE-29	18-Jun-15			20.85			NM	NM	NM	NM	NA
	24-Feb-16			20.80			NM	NM	NM	NM	NA
	07-Sep-16	NM, WELL PLUGGED WITH TREE ROOTS									

TABLE 1
SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MPE-30	18-Jun-15			21.61			NM	NM	NM	NM	NA
	24-Feb-16			21.30			NM	NM	NM	NM	NA
	07-Sep-16	NM, WELL PLUGGED WITH TREE ROOTS									
MPE-31	18-Jun-15		22.88	22.89	0.01		NM	NM	NM	NM	NA
	24-Feb-16			22.65			NM	NM	NM	NM	NA
	07-Sep-16	NM, WELL PLUGGED WITH TREE ROOTS									
MPE-32	18-Jun-15		NM	NM			NM	NM	NM	NM	NA
	24-Feb-16		22.91	23.00	0.09		NM	NM	NM	NM	NA
	07-Sep-16		23.18	23.87	0.69		NM	NM	NM	NM	NA
MPE-33	18-Jun-15			22.79			NM	NM	NM	NM	NA
	24-Feb-16		22.72	22.94	0.22		NM	NM	NM	NM	NA
	07-Sep-16		22.97	23.90	0.93		NM	NM	NM	NM	NA
MPE-34	18-Jun-15			22.55			NM	NM	NM	NM	NA
	24-Feb-16		21.31	21.35	0.04		NM	NM	NM	NM	NA
	07-Sep-16		21.69	21.71	0.02		NM	NM	NM	NM	NA
MPE-35	18-Jun-15			21.13			NM	NM	NM	NM	NA
	24-Feb-16		20.44	20.56	0.12		NM	NM	NM	NM	NA
	07-Sep-16		20.68	21.49	0.81		NM	NM	NM	NM	NA
MPE-36	18-Jun-15			20.29			NM	NM	NM	NM	NA
	24-Feb-16		20.70	21.32	0.62		NM	NM	NM	NM	NA
	07-Sep-16		20.95	22.22	1.27		NM	NM	NM	NM	NA
MPE-38	18-Jun-15			20.16			NM	NM	NM	NM	NA
	24-Feb-16			20.32			NM	NM	NM	NM	NA
	07-Sep-16		20.68	20.70	0.02		NM	NM	NM	NM	NA
MPE-39	18-Jun-15			17.81			NM	NM	NM	NM	NA
	24-Feb-16			17.94			NM	NM	NM	NM	NA
	07-Sep-16			18.33			NM	NM	NM	NM	NA

TABLE 1
SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MPE-40	18-Jun-15			18.01			NM	NM	NM	NM	NA
	24-Feb-16			18.16			NM	NM	NM	NM	NA
	07-Sep-16			18.53			NM	NM	NM	NM	NA
MPE-41	29-Jun-15			18.69			NM	NM	NM	NM	NA
	24-Feb-16			18.82			NM	NM	NM	NM	NA
	07-Sep-16		19.18	19.20	0.02		NM	NM	NM	NM	NA
MPE-42	29-Jun-15			19.42			NM	NM	NM	NM	NA
	24-Feb-16		19.55	19.69	0.14		NM	NM	NM	NM	NA
	07-Sep-16		19.71	20.73	1.02		NM	NM	NM	NM	NA
MPE-43	29-Jun-15			20.25			NM	NM	NM	NM	NA
	24-Feb-16		20.43	20.47	0.04		NM	NM	NM	NM	NA
	07-Sep-16		20.71	21.29	0.58		NM	NM	NM	NM	NA
MPE-44	29-Jun-15		20.09	20.16	0.07		NM	NM	NM	NM	NA
	24-Feb-16		20.26	20.39	0.13		NM	NM	NM	NM	NA
	07-Sep-16		20.46	21.50	1.04		NM	NM	NM	NM	NA
MPE-45	29-Jun-15		20.59	20.71	0.12		NM	NM	NM	NM	NA
	24-Feb-16		20.73	20.96	0.23		NM	NM	NM	NM	NA
	07-Sep-16		20.91	21.75	0.84		NM	NM	NM	NM	NA
MPE-46	29-Jun-15			21.66			NM	NM	NM	NM	NA
	24-Feb-16		21.81	21.89	0.08		NM	NM	NM	NM	NA
	07-Sep-16		22.17	22.51	0.34		NM	NM	NM	NM	NA
MPE-47	29-Jun-15		21.10	21.63	0.53		NM	NM	NM	NM	NA
	24-Feb-16		21.21	21.77	0.56		NM	NM	NM	NM	NA
	07-Sep-16		21.54	22.78	1.24		NM	NM	NM	NM	NA
MPE-48	29-Jun-15			20.39			NM	NM	NM	NM	NA
	24-Feb-16			20.39			NM	NM	NM	NM	NA
	07-Sep-16			20.83			NM	NM	NM	NM	NA

TABLE 1
SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MPE-49	29-Jun-15			19.72			NM	NM	NM	NM	NA
	24-Feb-16			19.73			NM	NM	NM	NM	NA
	07-Sep-16		20.37	20.38	0.01		NM	NM	NM	NM	NA
MPE-50	29-Jun-15		20.66	21.31	0.65		NM	NM	NM	NM	NA
	24-Feb-16		20.74	21.55	0.81		NM	NM	NM	NM	NA
	07-Sep-16		21.07	22.59	1.52		NM	NM	NM	NM	NA
MPE-51	29-Jun-15			21.16			NM	NM	NM	NM	NA
	24-Feb-16		21.01	21.03	0.02		NM	NM	NM	NM	NA
	07-Sep-16		21.37	21.38	0.01		NM	NM	NM	NM	NA
MPE-52	29-Jun-15		20.92	21.06	0.14		NM	NM	NM	NM	NA
	24-Feb-16		21.09	21.31	0.22		NM	NM	NM	NM	NA
	07-Sep-16		21.31	22.32	1.01		NM	NM	NM	NM	NA
MPE-53	29-Jun-15		19.67	19.81	0.14		NM	NM	NM	NM	NA
	24-Feb-16		19.83	20.09	0.26		NM	NM	NM	NM	NA
	17-Sep-16		20.01	21.11	1.10		NM	NM	NM	NM	NA
MPE-54	29-Jun-15			19.40			NM	NM	NM	NM	NA
	24-Feb-16		19.55	19.59	0.04		NM	NM	NM	NM	NA
	07-Sep-16		19.80	20.41	0.61		NM	NM	NM	NM	NA
MPE-55	29-Jun-15			18.86			NM	NM	NM	NM	NA
	24-Feb-16		19.00	19.02	0.02		NM	NM	NM	NM	NA
	07-Sep-16			19.37			NM	NM	NM	NM	NA
MPE-56	29-Jun-15			14.29			NM	NM	NM	NM	NA
	24-Feb-16			14.42			NM	NM	NM	NM	NA
	07-Sep-16			14.80			NM	NM	NM	NM	NA
MPE-57	29-Jun-15			15.00			NM	NM	NM	NM	NA
	24-Feb-16			15.14			NM	NM	NM	NM	NA
	07-Sep-16			15.92			NM	NM	NM	NM	NA

TABLE 1
SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MPE-58	29-Jun-15			15.24			NM	NM	NM	NM	NA
	24-Feb-16			15.39			NM	NM	NM	NM	NA
	07-Sep-16			15.75			NM	NM	NM	NM	NA
MPE-59	29-Jun-15			13.93			NM	NM	NM	NM	NA
	24-Feb-16			14.04			NM	NM	NM	NM	NA
	07-Sep-16			14.39			NM	NM	NM	NM	NA
MPE-60	29-Jun-15			14.21			NM	NM	NM	NM	NA
	24-Feb-16			14.34			NM	NM	NM	NM	NA
	07-Sep-16			14.65			NM	NM	NM	NM	NA
MPE-61	29-Jun-15			14.03			NM	NM	NM	NM	NA
	24-Feb-16			14.16			NM	NM	NM	NM	NA
	07-Sep-16			14.51			NM	NM	NM	NM	NA
MPE-62	29-Jun-15			14.36			NM	NM	NM	NM	NA
	24-Feb-16			14.53			NM	NM	NM	NM	NA
	07-Sep-16			14.86			NM	NM	NM	NM	NA
MPE-63	29-Jun-15		15.06	15.23	0.17		NM	NM	NM	NM	NA
	24-Feb-16			15.19			NM	NM	NM	NM	NA
	07-Sep-16		15.53	15.77	0.24		NM	NM	NM	NM	NA
MPE-64	29-Jun-15		15.36	15.44	0.08		NM	NM	NM	NM	NA
	24-Feb-16		15.45	15.88	0.43		NM	NM	NM	NM	NA
	07-Sep-16		15.66	16.86	1.20		NM	NM	NM	NM	NA
MPE-65	29-Jun-15		16.12	16.14	0.02		NM	NM	NM	NM	NA
	24-Feb-16		16.21	16.66	0.45		NM	NM	NM	NM	NA
	07-Sep-16		16.45	17.43	0.98		NM	NM	NM	NM	NA
MPE-66	29-Jun-15		16.32	16.35	0.03		NM	NM	NM	NM	NA
	24-Feb-16		16.45	16.55	0.10		NM	NM	NM	NM	NA
	07-Sep-16		16.62	17.69	1.07		NM	NM	NM	NM	NA

TABLE 1
SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MPE-67	29-Jun-15		17.56	17.72	0.16		NM	NM	NM	NM	NA
	24-Feb-16		17.64	18.10	0.46		NM	NM	NM	NM	NA
	07-Sep-16		18.01	18.41	0.40		NM	NM	NM	NM	NA
MPE-68	29-Jun-15			15.83			NM	NM	NM	NM	NA
	24-Feb-16		15.83	15.85	0.02		NM	NM	NM	NM	NA
	07-Sep-16			16.46			NM	NM	NM	NM	NA
MPE-69	29-Jun-15			15.33			NM	NM	NM	NM	NA
	24-Feb-16			15.37			NM	NM	NM	NM	NA
	07-Sep-16			15.81			NM	NM	NM	NM	NA
MPE-70	29-Jun-16			15.60			NM	NM	NM	NM	NA
	24-Feb-16		15.65	16.17	0.52		NM	NM	NM	NM	NA
	07-Sep-16		15.85	17.03	1.18		NM	NM	NM	NM	NA
MPE-71	29-Jun-15			15.67			NM	NM	NM	NM	NA
	24-Feb-16		15.79	16.08	0.29		NM	NM	NM	NM	NA
	07-Sep-16		15.95	17.01	1.06		NM	NM	NM	NM	NA
MPE-72	29-Jun-15			16.01			NM	NM	NM	NM	NA
	24-Feb-16		16.14	16.20	0.06		NM	NM	NM	NM	NA
	07-Sep-16		16.42	16.60	0.18		NM	NM	NM	NM	NA
MPE-73	29-Jun-15		15.80	16.51	0.71		NM	NM	NM	NM	NA
	24-Feb-16		15.87	16.82	0.95		NM	NM	NM	NM	NA
	07-Sep-16		16.06	17.86	1.80		NM	NM	NM	NM	NA
MPE-74	29-Jun-15		14.73	15.31	0.58		NM	NM	NM	NM	NA
	24-Feb-16		14.84	15.44	0.60		NM	NM	NM	NM	NA
	07-Sep-16		15.12	16.04	0.92		NM	NM	NM	NM	NA
MPE-75	29-Jun-15		13.85	14.39	0.54		NM	NM	NM	NM	NA
	24-Feb-16		14.02	14.28	0.26		NM	NM	NM	NM	NA
	07-Sep-16		14.24	15.02	0.78		NM	NM	NM	NM	NA

TABLE 1
SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MPE-76	29-Jun-15		12.81	12.96	0.15		NM	NM	NM	NM	NA
	24-Feb-16		12.92	13.06	0.14		NM	NM	NM	NM	NA
	07-Sep-16		13.15	13.89	0.74		NM	NM	NM	NM	NA
MPE-77	29-Jun-15		12.36	12.45	0.09		NM	NM	NM	NM	NA
	24-Feb-16		12.42	12.49	0.07		NM	NM	NM	NM	NA
	07-Sep-16		12.79	12.87	0.08		NM	NM	NM	NM	NA
MPE-78	29-Jun-15			11.41			NM	NM	NM	NM	NA
	24-Feb-16			11.49			NM	NM	NM	NM	NA
	07-Sep-16		11.83	11.84	0.01		NM	NM	NM	NM	NA
MPE-79	29-Jun-15			11.27			NM	NM	NM	NM	NA
	24-Feb-16			11.22			NM	NM	NM	NM	NA
	07-Sep-16	NM, WELL PLUGGED WITH TREE ROOTS									
MPE-80	29-Jun-15			8.84			NM	NM	NM	NM	NA
	24-Feb-16			8.77			NM	NM	NM	NM	NA
	07-Sep-16	NM, WELL PLUGGED WITH TREE ROOTS									
MPE-81	29-Jun-15		10.59	10.80	0.21		NM	NM	NM	NM	NA
	24-Feb-16		10.61	10.73	0.12		NM	NM	NM	NM	NA
	07-Sep-16		10.84	11.67	0.83		NM	NM	NM	NM	NA
MPE-82	29-Jun-15			10.80			NM	NM	NM	NM	NA
	24-Feb-16			10.91			NM	NM	NM	NM	NA
	07-Sep-16		11.20	11.45	0.25		NM	NM	NM	NM	NA
MPE-83	29-Jun-15		12.17	12.52	0.35		NM	NM	NM	NM	NA
	24-Feb-16		12.28	12.60	0.32		NM	NM	NM	NM	NA
	07-Sep-16		12.49	13.32	0.83		NM	NM	NM	NM	NA
MPE-84	29-Jun-15		15.91	16.19	0.28		NM	NM	NM	NM	NA
	24-Feb-16		15.98	16.30	0.32		NM	NM	NM	NM	NA
	07-Sep-16		16.22	17.23	1.01		NM	NM	NM	NM	NA

TABLE 1
SUMMARY OF 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 (ft)	pH	Conductivity (mS)	Temp. (°C)	ORP (mV)	Purge Volume (gallons)
MPE-85	29-Jun-15		15.76	16.29	0.53		NM	NM	NM	NM	NA
	24-Feb-16		15.89	16.42	0.53		NM	NM	NM	NM	NA
	07-Sep-16		16.12	17.09	0.97		NM	NM	NM	NM	NA
MPE-86	29-Jun-15			17.16			NM	NM	NM	NM	NA
	24-Feb-16			17.28			NM	NM	NM	NM	NA
	07-Sep-16		17.46	18.21	0.75		NM	NM	NM	NM	NA
MPE-87	29-Jun-15		15.63	15.94	0.31		NM	NM	NM	NM	NA
	24-Feb-16		15.78	16.16	0.38		NM	NM	NM	NM	NA
	07-Sep-16		16.00	16.73	0.73		NM	NM	NM	NM	NA
MPE-88	29-Jun-15		13.59	13.85	0.26		NM	NM	NM	NM	NA
	24-Feb-16		13.68	14.10	0.42		NM	NM	NM	NM	NA
	07-Sep-16		13.88	15.01	1.13		NM	NM	NM	NM	NA
MPE-89	29-Jun-15		14.61	14.69	0.08		NM	NM	NM	NM	NA
	24-Feb-16		14.71	15.14	0.43		NM	NM	NM	NM	NA
	07-Sep-16		14.88	16.05	1.17		NM	NM	NM	NM	NA
MPE-90	29-Jun-15		14.68	14.97	0.29		NM	NM	NM	NM	NA
	24-Feb-16		14.79	15.15	0.36		NM	NM	NM	NM	NA
	07-Sep-16		14.96	16.31	1.35		NM	NM	NM	NM	NA

Notes: NM Not Measured

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene μg/L	Toluene μg/L	Ethyl- benzene μg/L	Xylenes μg/L	MTBE μg/L	Naph- thalene μg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260 / 8021						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
TW-1	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
	16-Feb-16	<2.0	<2.0	<2.0	<3.0	<2.0	<8.0	<0.10	<1.0	<5.0
	8-Sep-16	NS	NS	NS	NS	NS	NS	NS	NS	NS
TW-2	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
	16-Feb-16	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<0.050	<1.0	<5.0
	8-Sep-16	NS	NS	NS	NS	NS	NS	NS	NS	NS
TW-3	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
	26-Feb-16	<2.0	<2.0	<2.0	<3.0	<2.0	<4.0	0.23	<1.0	<5.0
	8-Sep-16	NS	NS	NS	NS	NS	NS	NS	NS	NS
TW-4	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
	16-Feb-16	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<0.050	<1.0	<5.0
	8-Sep-16	NS	NS	NS	NS	NS	NS	NS	NS	NS
TW-5	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
	16-Feb-16	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<0.050	<1.0	<5.0
	8-Sep-16	NS	NS	NS	NS	NS	NS	NS	NS	NS
TW-6	15-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
	19-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
	16-Feb-16	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
	8-Sep-16	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene μg/L	Toluene μg/L	Ethyl- benzene μg/L	Xylenes μg/L	MTBE μg/L	Naph- thalene μg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260 / 8021						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
TW-7	17-May-12	2.5	24	370	150	<1.0	32	NA	NA	NA
	26-Nov-12	<5.0	<5.0	120	20	<5.0	<10	1.3	<1.0	<5.0
	9-May-13	1.0	12	280	73	<1.0	12	NA	NA	NA
	16-Feb-16	Not Sampled-NAPL Present								
	8-Sep-16	NS	NS	NS	NS	NS	NS	NS	NS	NS
TW-8	26-Nov-12	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	0.11	<1.0	<5.0
	9-May-13	4.3	<1.0	92	40	<1.0	<2.0	NA	NA	NA
	3-Dec-13	<1.0	<1.0	1.2	<1.5	<1.0	<2.0	0.31	<1.0	<5.0
	29-May-14	<1.0	<1.0	23.0	4.2	<1.0	<2.0	NA	NA	NA
	10-Dec-14	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	0.14	<1.0	<5.0
	16-Feb-16	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	0.10	<1.0	<5.0
	8-Sep-16	NS	NS	NS	NS	NS	NS	NS	NS	NS
TW-9	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
	20-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
	16-Feb-16	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<0.050	<1.0	<5.0
	8-Sep-16	NS	NS	NS	NS	NS	NS	NS	NS	NS
TW-10	20-Aug-09	<1.0	<1.0	1.1	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
	16-Feb-16	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<0.050	<1.0	<5.0
	8-Sep-16	NS	NS	NS	NS	NS	NS	NS	NS	NS
TW-11	17-Feb-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
	11-May-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
	17-Nov-11	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
	17-Feb-16	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<0.050	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	<1.0	NA	NA	NA	NA

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene μg/L	Toluene μg/L	Ethyl- benzene μg/L	Xylenes μg/L	MTBE μg/L	Naph- thalene μg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260 / 8021						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
TW-12	17-Feb-10	1.3	<1.0	35	48	<1.0	2.4	0.43	<1.0	<5.0
	11-May-10	1.7	2.0	49	72	<1.0	<2.0	0.18	1.2	<5.0
	19-Aug-10	1.4	<1.0	53	65	<1.0	<2.0	0.40	<1.0	<5.0
	16-Feb-16	Not Sampled-NAPL Present								
	8-Sep-16	Not Sampled-NAPL Present								
TW-13	18-Aug-10	Not Sampled-NAPL Present								
	15-Nov-10	Not Sampled-NAPL Present								
	18-May-11	Not Sampled-NAPL Present								
	15-Nov-11	Not Sampled-NAPL Present								
	16-Feb-16	Not Sampled-NAPL Present								
	8-Sep-16	Not Sampled-NAPL Present								
TW-14	17-Feb-10	Not Sampled-NAPL Present								
	11-May-10	Not Sampled-NAPL Present								
	18-Aug-10	Not Sampled-NAPL Present								
	18-May-11	Not Sampled-NAPL Present								
	15-Nov-11	Not Sampled-NAPL Present								
	16-Feb-16	Not Sampled-NAPL Present								
	8-Sep-16	Not Sampled-NAPL Present								
TW-15	17-May-12	11	1.6	37	<2.0	<1.0	<2.0	NA	NA	NA
	9-May-13	6.9	<1.0	13	<2.0	<1.0	<2.0	NA	NA	NA
	29-May-14	7.6	1.3	5.5	<2.0	<1.0	<2.0	NA	NA	NA
	17-Feb-16	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	0.091	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	<1.0	NA	NA	NA	NA

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene μg/L	Toluene μg/L	Ethyl- benzene μg/L	Xylenes μg/L	MTBE μg/L	Naph- thalene μg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260 / 8021						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
TW-16	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
	20-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
	17-Feb-16	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<0.10	1.5	<5.0
	8-Sep-16	NS	NS	NS	NS	NS	NS	NS	NS	NS
TW-17	16-Dec-08	<1.0	<1.0	<1.0	<1.5	<1.0	<10	<0.050	<1.0	<5.0
	21-Aug-09	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
	17-Feb-16	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<0.050	3.3	<5.0
	8-Sep-16	NS	NS	NS	NS	NS	NS	NS	NS	NS
TW-18	17-May-12	5.3	<1.0	31	<2.0	<1.0	<2.0	NA	NA	NA
	26-Nov-12	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
	3-Dec-13	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
	10-Dec-14	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
	17-Feb-16	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<0.050	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	<1.0	NA	NA	NA	NA
TW-19	15-Nov-10	Not Sampled-NAPL Present								
	18-May-11	Not Sampled-NAPL Present								
	15-Nov-11	Not Sampled-NAPL Present								
	17-Feb-16	Not Sampled-NAPL Present								
	8-Sep-16	Not Sampled-NAPL Present								
TW-20	18-Aug-10	Not Sampled-NAPL Present								
	18-May-11	Not Sampled-NAPL Present								
	15-Nov-11	Not Sampled-NAPL Present								
	17-Feb-16	Not Sampled-NAPL Present								
	8-Sep-16	Not Sampled-NAPL Present								

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene μg/L	Toluene μg/L	Ethyl- benzene μg/L	Xylenes μg/L	MTBE μg/L	Naph- thalene μg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260 / 8021						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
TW-21	7-May-10	Not Sampled-Surface Casing Damaged								
	18-Aug-10	Not Sampled-Surface Casing Damaged								
	15-Nov-10	Not Sampled-Surface Casing Damaged								
	18-May-11	Not Sampled-Surface Casing Damaged								
	17-Feb-16	Not Sampled-NAPL Present								
	8-Sep-16	Not Sampled-NAPL Present								
TW-22	15-Nov-10	Not Sampled-NAPL Present								
	18-May-11	Not Sampled-NAPL Present								
	15-Nov-11	Not Sampled-NAPL Present								
	29-May-14	4.0	<1.0	6.5	130	3.9	7.4	NA	NA	NA
	17-Feb-16	<10	<10	<10	68	<10	<40	1.3	8.7	<5.0
	8-Sep-16	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
	21-Aug-09	<1.0	<1.0	24	<1.5	<1.0	<2.0	0.34	<1.0	<5.0
	10-Dec-14	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.10	<1.0	<5.0
	17-Feb-16	<1.0	<1.0	<1.0	<1.5	<1.0	<4.0	<0.050	<1.0	<5.0
	8-Sep-16	NS	NS	NS	NS	NS	NS	NS	NS	NS
TW-24	15-Nov-10	Not Sampled-NAPL Present								
	18-May-11	Not Sampled-NAPL Present								
	15-Nov-11	Not Sampled-NAPL Present								
	10-Dec-14	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	0.068	<1.0	<5.0
	17-Feb-16	<1.0	<1.0	<1.0	<1.5	1.1	<4.0	<0.050	8.0	<5.0
	8-Sep-16	NS	NS	NS	NS	NS	NS	NS	NS	NS

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene μg/L	Toluene μg/L	Ethyl- benzene μg/L	Xylenes μg/L	MTBE μg/L	Naph- thalene μg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260 / 8021						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
TW-25	15-Nov-10	Not Sampled-NAPL Present								
	18-May-11	Not Sampled-NAPL Present								
	15-Nov-11	Not Sampled-NAPL Present								
	17-Feb-16	Not Sampled-NAPL Present								
	8-Sep-16	Not Sampled-NAPL Present								
TW-26	18-Aug-10	Not Sampled-NAPL Present								
	15-Nov-10	Not Sampled-NAPL Present								
	18-May-11	Not Sampled-NAPL Present								
	15-Nov-11	Not Sampled-NAPL Present								
	17-Feb-16	Not Sampled-NAPL Present								
	8-Sep-16	Not Sampled-NAPL Present								
TW-28	18-Aug-10	Not Sampled-NAPL Present								
	15-Nov-10	Not Sampled-NAPL Present								
	18-May-11	Not Sampled-NAPL Present								
	15-Nov-11	Not Sampled-NAPL Present								
	17-Feb-16	Not Sampled-NAPL Present								
	8-Sep-16	Not Sampled-NAPL Present								
TW-29	18-Aug-10	Not Sampled-NAPL Present								
	15-Nov-10	Not Sampled-NAPL Present								
	18-May-11	Not Sampled-NAPL Present								
	15-Nov-11	Not Sampled-NAPL Present								
	19-Feb-16	6.4	<1.0	1.7	3	5.9	<2.0	0.390	2.2	<5.0
	8-Sep-16	Not Sampled-NAPL Present								

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene μg/L	Toluene μg/L	Ethyl- benzene μg/L	Xylenes μg/L	MTBE μg/L	Naph- thalene μg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260 / 8021						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
TW-30	15-Nov-10	3.8	<1.0	<1.0	<1.5	14	<2.0	0.15	<1.0	<5.0
	17-Nov-11	4.9	<1.0	<1.0	<2.0	7.9	<2.0	0.16	<1.0	<5.0
	27-Nov-12	2.9	<1.0	<1.0	<2.0	6.3	<2.0	0.16	<1.0	<5.0
	3-Dec-13	1.4	<1.0	<1.0	<1.5	7.9	<2.0	0.056	<1.0	<5.0
	10-Dec-14	<1.0	<1.0	<1.0	<1.5	7.7	<2.0	<0.050	<1.0	<5.0
	19-Feb-16	<1.0	<1.0	<1.0	<1.5	10	<2.0	<0.10	<1.0	<5.0
	8-Sep-16	Not Sampled-Wasp Nest In Well								
TW-31	27-Nov-12	<1.0	<1.0	<1.0	<2.0	5.4	<2.0	<0.050	<1.0	<5.0
	3-Dec-13	<1.0	<1.0	<1.0	<1.5	2.8	<2.0	<0.050	<1.0	<5.0
	10-Dec-14	<1.0	<1.0	<1.0	<1.5	5.8	<2.0	<0.050	<1.0	<5.0
	19-Feb-16	<1.0	<1.0	<1.0	<1.5	10	<2.0	<0.050	<1.0	<5.0
	8-Sep-16	NS	NS	NS	NS	NS	NS	NS	NS	NS
TW-32	7-May-10	Not Sampled-NAPL Present								
	18-Aug-10	Not Sampled-NAPL Present								
	15-Nov-10	Not Sampled-NAPL Present								
	18-May-11	Not Sampled-NAPL Present								
	15-Nov-11	Not Sampled-NAPL Present								
	17-Feb-16	Not Sampled-NAPL Present								
	8-Sep-16	Not Sampled-NAPL Present								
TW-33	15-Nov-10	Not Sampled-NAPL Present								
	18-May-11	Not Sampled-NAPL Present								
	15-Nov-11	Not Sampled-NAPL Present								
	17-Feb-16	Not Sampled-NAPL Present								
	8-Sep-16	Not Sampled-NAPL Present								

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene μg/L	Toluene μg/L	Ethyl- benzene μg/L	Xylenes μg/L	MTBE μg/L	Naph- thalene μg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260 / 8021						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
TW-34	18-Feb-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
	12-May-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
	22-Nov-11	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
	23-Feb-16	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	<1.0	NA	NA	NA	NA
TW-35	18-Feb-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
	12-May-10	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
	17-Nov-10	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
	22-Nov-11	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	<0.050	<1.0	<5.0
	17-Feb-16	Not Sampled-NAPL Present								
	8-Sep-16	Not Sampled-NAPL Present								
TW-36	18-May-11	Not Sampled-NAPL present								
	15-Nov-11	Not Sampled-NAPL present								
	29-May-14	<1.0	<1.0	<1.0	<2.0	1.1	<2.0	NA	NA	NA
	24-Jun-15	<2.0	<2.0	<2.0	<3.0	<2.0	<4.0	0.31	2.1	<5.0
	22-Feb-16	<1.0	<1.0	<1.0	<1.5	1.2	<2.0	<0.050	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	1.8	NA	NA	NA	NA
TW-37	9-May-13	250	<1.0	80	2.9	83	<2.0	NA	NA	NA
	3-Dec-13	130	<5.0	41	11	95	<10	1.4	1.4	<5.0
	29-May-14	210	<1.0	110	70	63	3.3	NA	NA	NA
	10-Dec-14	140	<5.0	72	<7.5	68	<10	1.4	<1.0	<5.0
	24-Jun-15	270	<10	140	62	70	<20	2.7	3.4	<5.0
	25-Feb-16	130	<10	50	<15	68	<20	1.9	<1.0	<5.0
	8-Sep-16	12	<1.0	<1.0	<1.5	11	NA	NA	NA	NA

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene μg/L	Toluene μg/L	Ethyl- benzene μg/L	Xylenes μg/L	MTBE μg/L	Naph- thalene μg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260 / 8021						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
TW-38	29-May-14	8.2	<1.0	5.1	77	60	6.2	NA	NA	NA
	24-Jun-15	11	<10	<10	48	59	<20	1.5	4.0	<5.0
	25-Feb-16	8	<1.0	6.5	50	52	4.6	0.97	<1.0	<5.0
	8-Sep-16	Not Sampled-NAPL Present								
TW-39	29-May-14	<1.0	<1.0	<1.0	<2.0	8.2	<2.0	NA	NA	NA
	11-Dec-14	<1.0	<1.0	<1.0	<1.5	6.9	<2.0	0.35	<1.0	<5.0
	24-Jun-15	<1.0	<1.0	<1.0	<1.5	9.8	<2.0	0.41	<1.0	<5.0
	19-Feb-16	<1.0	<1.0	<1.0	<1.5	8.8	<2.0	0.35	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	11	6	6.7	NA	NA	NA	NA
TW-40	15-Nov-11	Not Sampled-NAPL Present								
	17-Feb-16	Not Sampled-NAPL Present								
	8-Sep-16	Not Sampled-NAPL Present								
TW-41	3-Dec-13	45	<10	470	1,600	<10	34	8.1	4.3	<5.0
	29-May-14	35	<5.0	190	470	9.5	<10	NA	NA	NA
	11-Dec-14	88	<10	480	1,600	<10	39	9.0	2.4	<5.0
	24-Jun-15	68	<5.0	460	1,300	11	30	7.3	1.2	<5.0
	22-Feb-16	25	<10	270	710	<10	<20	4.4	5.1	<5.0
	8-Sep-16	79	<10	250	170	<10	NA	NA	NA	NA
TW-42	4-Dec-13	<1.0	<1.0	<1.0	<1.5	7.4	<2.0	<0.050	<1.0	<5.0
	29-May-14	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0	NA	NA	NA
	11-Dec-14	<2.0	<2.0	<2.0	<3.0	7.3	<4.0	<0.050	<1.0	<5.0
	24-Jun-15	<1.0	<1.0	<1.0	<1.5	25	<2.0	0.15	<1.0	<5.0
	22-Feb-16	<1.0	<1.0	<1.0	<1.5	23	<2.0	0.11	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	21	NA	NA	NA	NA

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene μg/L	Toluene μg/L	Ethyl- benzene μg/L	Xylenes μg/L	MTBE μg/L	Naph- thalene μg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260 / 8021						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
TW-43	13-May-13	<1.0	<1.0	<1.0	<2.0	420	<2.0	NA	NA	NA
	4-Dec-13	<1.0	<1.0	<1.0	<1.5	410	<2.0	0.29	<1.0	<5.0
	30-May-14	<1.0	<1.0	<1.0	<2.0	310	<2.0	NA	NA	NA
	11-Dec-14	<2.0	<2.0	<2.0	<3.0	330	<4.0	0.36	<1.0	<5.0
	24-Jun-15	<2.0	<2.0	<2.0	<3.0	300	<4.0	0.71	<1.0	<5.0
	22-Feb-16	<1.0	<1.0	<1.0	<1.5	380	<2.0	0.44	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	300	NA	NA	NA	NA
TW-44	18-May-11	Not Sampled-NAPL Present								
	15-Nov-11	Not Sampled-NAPL Present								
	22-Feb-16	Not Sampled-NAPL Present								
	8-Sep-16	Not Sampled-NAPL Present								
TW-45	13-May-13	<1.0	<1.0	<1.0	<2.0	99	<2.0	NA	NA	NA
	4-Dec-13	<1.0	<1.0	<1.0	<1.5	97	<2.0	0.13	<1.0	<5.0
	30-May-14	<1.0	<1.0	<1.0	<2.0	170	<2.0	NA	NA	NA
	11-Dec-14	<1.0	<1.0	<1.0	<1.5	79	<2.0	0.13	<1.0	<5.0
	24-Jun-15	<1.0	<1.0	<1.0	<1.5	81	<2.0	0.10	<1.0	<5.0
	23-Feb-16	<1.0	<1.0	<1.0	<1.5	66	<2.0	0.15	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	83	NA	NA	NA	NA
TW-46	28-Nov-12	<1.0	<1.0	<1.0	<2.0	46	<2.0	<0.050	<1.0	<5.0
	4-Dec-13	<1.0	<1.0	<1.0	<1.5	7.6	<2.0	<0.050	<1.0	<5.0
	11-Dec-14	<1.0	<1.0	<1.0	<1.5	9.7	<2.0	<0.050	<1.0	<5.0
	24-Jun-15	<1.0	<1.0	<1.0	<1.5	10	<2.0	0.210	<1.0	<5.0
	23-Feb-16	<1.0	<1.0	<1.0	<1.5	17	<2.0	<0.10	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	73	NA	NA	NA	NA

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene μg/L	Toluene μg/L	Ethyl- benzene μg/L	Xylenes μg/L	MTBE μg/L	Naph- thalene μg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260 / 8021						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
TW-47	28-Nov-12	<1.0	<1.0	<1.0	<2.0	28	<2.0	<0.050	<1.0	<5.0
	4-Dec-13	<1.0	<1.0	<1.0	<1.5	1.3	<2.0	<0.050	<1.0	<5.0
	11-Dec-14	<1.0	<1.0	<1.0	<1.5	21	<2.0	<0.050	<1.0	<5.0
	24-Jun-15	<1.0	<1.0	<1.0	<1.5	13	<2.0	<0.050	<1.0	<5.0
	26-Feb-16	<1.0	<1.0	<1.0	<1.5	18	<2.0	<0.050	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	4	NA	NA	NA	NA
TW-48	12-Dec-14	<2.0	<2.0	<2.0	<3.0	6.6	<4.0	<0.10	<1.0	<5.0
	25-Jun-15	<1.0	<1.0	<1.0	<1.5	9.6	<2.0	0.440	<1.0	<5.0
	19-Feb-16	<1.0	<1.0	<1.0	<1.5	6.5	<2.0	<0.10	<1.0	<5.0
	8-Sep-16	NS	NS	NS	NS	NS	NS	NS	NS	NS
TW-49	4-Dec-13	<10	<10	<10	<15	11	<20	<0.50	<1.0	<5.0
	12-Dec-14	<2.0	<2.0	<2.0	<3.0	8.2	<4.0	<0.10	<1.0	<5.0
	24-Jun-15	<2.0	<2.0	<2.0	<3.0	16	<4.0	0.28	<1.0	<5.0
	26-Feb-16	<1.0	<1.0	<1.0	<1.5	15	<2.0	<0.050	<1.0	<5.0
	8-Sep-16	Well Destroyed								
TW-50	21-May-12	2.9	<1.0	23	19	17	<2.0	NA	NA	NA
	4-Dec-12	<1.0	<1.0	2.3	3.1	19	<2.0	0.22	<1.0	<5.0
	26-Feb-16	Not Sampled-NAPL Present								
	8-Sep-16	Not Sampled-NAPL Present								
TW-51	12-Dec-14	<2.0	<2.0	<2.0	<3.0	190	<4.0	0.38	<1.0	<5.0
	24-Jun-15	<1.0	<1.0	<1.0	<1.5	320	<2.0	0.40	<1.0	<5.0
	26-Feb-16	<2.0	<2.0	<2.0	<3.0	210	<4.0	0.70	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	220	NA	NA	NA	NA

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene μg/L	Toluene μg/L	Ethyl- benzene μg/L	Xylenes μg/L	MTBE μg/L	Naph- thalene μg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260 / 8021						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
TW-52	13-May-13	<1.0	<1.0	<1.0	<2.0	240	<2.0	NA	NA	NA
	5-Dec-13	<1.0	<1.0	<1.0	<1.5	76	<2.0	0.075	<1.0	<5.0
	30-May-14	<1.0	<1.0	<1.0	<2.0	88	<2.0	NA	NA	NA
	12-Dec-14	<2.0	<2.0	<2.0	<3.0	86	<4.0	0.09	<1.0	<5.0
	24-Jun-15	<1.0	<1.0	<1.0	<1.5	64	<2.0	0.15	<1.0	<5.0
	26-Feb-16	<1.0	<1.0	<1.0	<1.5	93	<4.0	0.11	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	78	NA	NA	NA	NA
TW-53	22-Jan-13	<1.0	<1.0	<1.0	<2.0	16	<2.0	NA	NA	NA
	13-May-13	<1.0	<1.0	<1.0	<2.0	14	<2.0	NA	NA	NA
	5-Dec-13	<1.0	<1.0	<1.0	<1.5	12	<2.0	<0.050	<1.0	<5.0
	12-Dec-14	<1.0	<1.0	<1.0	<1.5	13	<2.0	<0.050	<1.0	<5.0
	25-Jun-15	<1.0	<1.0	<1.0	<1.5	6.8	<2.0	<0.050	<1.0	<5.0
	26-Feb-16	<1.0	<1.0	<1.0	<1.5	9.7	<2.0	<0.050	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	10	NA	NA	NA	NA
TW-54	30-May-14	<1.0	<1.0	<1.0	<2.0	20	<2.0	NA	NA	NA
	12-Dec-14	<1.0	<1.0	<1.0	<1.5	18	<2.0	<0.050	<1.0	<5.0
	25-Jun-15	<1.0	<1.0	<1.0	<1.5	18	<2.0	<0.050	<1.0	<5.0
	26-Feb-16	<1.0	<1.0	<1.0	<1.5	19	<2.0	<0.050	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	31	NA	NA	NA	NA
MW-4	19-Feb-16	<1.0	<1.0	<1.0	<1.5	47	<2.0	0.083	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	43	NA	NA	NA	NA
MW-5	25-Jun-15	<1.0	<1.0	<1.0	<1.5	39	<2.0	0.13	<1.0	<5.0
	22-Feb-16	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.050	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	72	NA	NA	NA	NA

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene μg/L	Toluene μg/L	Ethyl- benzene μg/L	Xylenes μg/L	MTBE μg/L	Naph- thalene μg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260 / 8021						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
MW-6	19-Feb-16	<1.0	<1.0	<1.0	<1.5	77	<2.0	0.094	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	20	NA	NA	NA	NA
MW-7	12-Dec-14	<1.0	<1.0	<1.0	<1.5	59	<2.0	0.065	<1.0	<5.0
	25-Jun-15	1.4	<1.0	<1.0	<1.5	15	NA	0.11	<1.0	<5.0
	19-Feb-16	<1.0	<1.0	<1.0	<1.5	8	<2.0	<0.050	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	2.0	NA	NA	NA	NA
MW-9	1-Mar-16	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.10	<1.0	<5.0
	8-Sep-16	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	1-Mar-16	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	<0.10	<1.0	<5.0
	8-Sep-16	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12	25-Feb-16	Not Sampled-NAPL Present								
	8-Sep-16	Not Sampled-NAPL Present								
MW-13	25-Feb-16	<10	<10	<10	<15	<10	<20	<0.05	25	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	<1.0	NA	NA	NA	NA
MW-16	25-Feb-16	<1.0	<1.0	<1.0	<1.5	<1.0	<2.0	0.160	<1.0	<5.0
	8-Sep-16	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17	25-Feb-16	<1.0	<1.0	<1.0	<1.5	<1.0	<0.50	0.050	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	<1.0	NA	NA	NA	NA
MW-18	25-Feb-16	<1.0	<1.0	<1.0	<1.5	4.4	<2.0	<0.05	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	3.0	NA	NA	NA	NA
MW-19	25-Feb-16	<1.0	<1.0	<1.0	<1.5	130	<2.0	0.240	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	88	NA	NA	NA	NA

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

Well ID	Date Sampled	Benzene μg/L	Toluene μg/L	Ethyl- benzene μg/L	Xylenes μg/L	MTBE μg/L	Naph- thalene μg/L	GRO C6-C10 mg/L	DRO C10-C22 mg/L	MRO mg/L
Sample Method		EPA Method 8260 / 8021						EPA Method 8015D		
NM WQCC STANDARD		10	750	750	620	100	30	NE	NE	NE
MW-20	13-May-13	<1.0	<1.0	<1.0	<2.0	120	<2.0	NA	NA	NA
	6-Dec-13	<1.0	<1.0	<1.0	<1.5	190	<2.0	1.1	<1.0	<5.0
	30-May-14	<1.0	<1.0	<1.0	<2.0	160	<2.0	NA	NA	NA
	11-Dec-14	<1.0	<1.0	<1.0	<1.5	70	<2.0	0.74	<1.0	<5.0
	24-Jun-15	<1.0	<1.0	<1.0	<1.5	130	<2.0	0.91	<1.0	<5.0
	23-Feb-16	<1.0	<1.0	<1.0	<1.5	110	<2.0	0.81	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	55	NA	NA	NA	NA
MW-21	6-Dec-13	<1.0	<1.0	<1.0	<1.5	78	<2.0	0.08	<1.0	<5.0
	30-May-14	<1.0	<1.0	<1.0	<2.0	83	<2.0	NA	NA	NA
	11-Dec-14	<1.0	<1.0	<1.0	<1.5	66	<2.0	0.07	<1.0	<5.0
	24-Jun-15	<1.0	<1.0	<1.0	<1.5	67	<2.0	0.11	<1.0	<5.0
	26-Feb-16	<1.0	<1.0	<1.0	<1.5	47	<2.0	0.06	<1.0	<5.0
	8-Sep-16	<1.0	<1.0	<1.0	<1.5	39	NA	NA	NA	NA
MW-23	26-Feb-16	Not Sampled-Dry								
	8-Sep-16	Not Sampled-Dry								
MW-25	26-Feb-16	Not Sampled-Dry								
	8-Sep-16	Not Sampled-Dry								
MW-27	26-Feb-16	Not Sampled-Dry								
	8-Sep-16	Not Sampled-Dry								
RW-24	26-Feb-16	Not Sampled-NAPL Present								
	8-Sep-16	Not Sampled-NAPL Present								
RW-25	26-Feb-16	Not Sampled-NAPL Present								
	8-Sep-16	Not Sampled-NAPL Present								

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Thriftway Refinery, 626 CR 5500, Bloomfield, New Mexico

<i>Well ID</i>	<i>Date Sampled</i>	<i>Benzene</i> <i>µg/L</i>	<i>Toluene</i> <i>µg/L</i>	<i>Ethyl- benzene</i> <i>µg/L</i>	<i>Xylenes</i> <i>µg/L</i>	<i>MTBE</i> <i>µg/L</i>	<i>Naph- thalene</i> <i>µg/L</i>	<i>GRO</i> <i>C6-C10</i> <i>mg/L</i>	<i>DRO</i> <i>C10-C22</i> <i>mg/L</i>	<i>MRO</i> <i>mg/L</i>
<i>Sample Method</i>		<i>EPA Method 8260 / 8021</i>						<i>EPA Method 8015D</i>		
<i>NM WQCC STANDARD</i>		<i>10</i>	<i>750</i>	<i>750</i>	<i>620</i>	<i>100</i>	<i>30</i>	<i>NE</i>	<i>NE</i>	<i>NE</i>

NOTES < Analyte not detected above listed method limit
 NS Not Sampled
 NA Not analyzed
 NE Not established
 µg/L Micrograms per liter (ppb)
 mg/L Milligrams per liter (ppm)
 GRO Gasoline range organics
 DRO Diesel range organics
 MRO Motor oil range organics

FIGURES

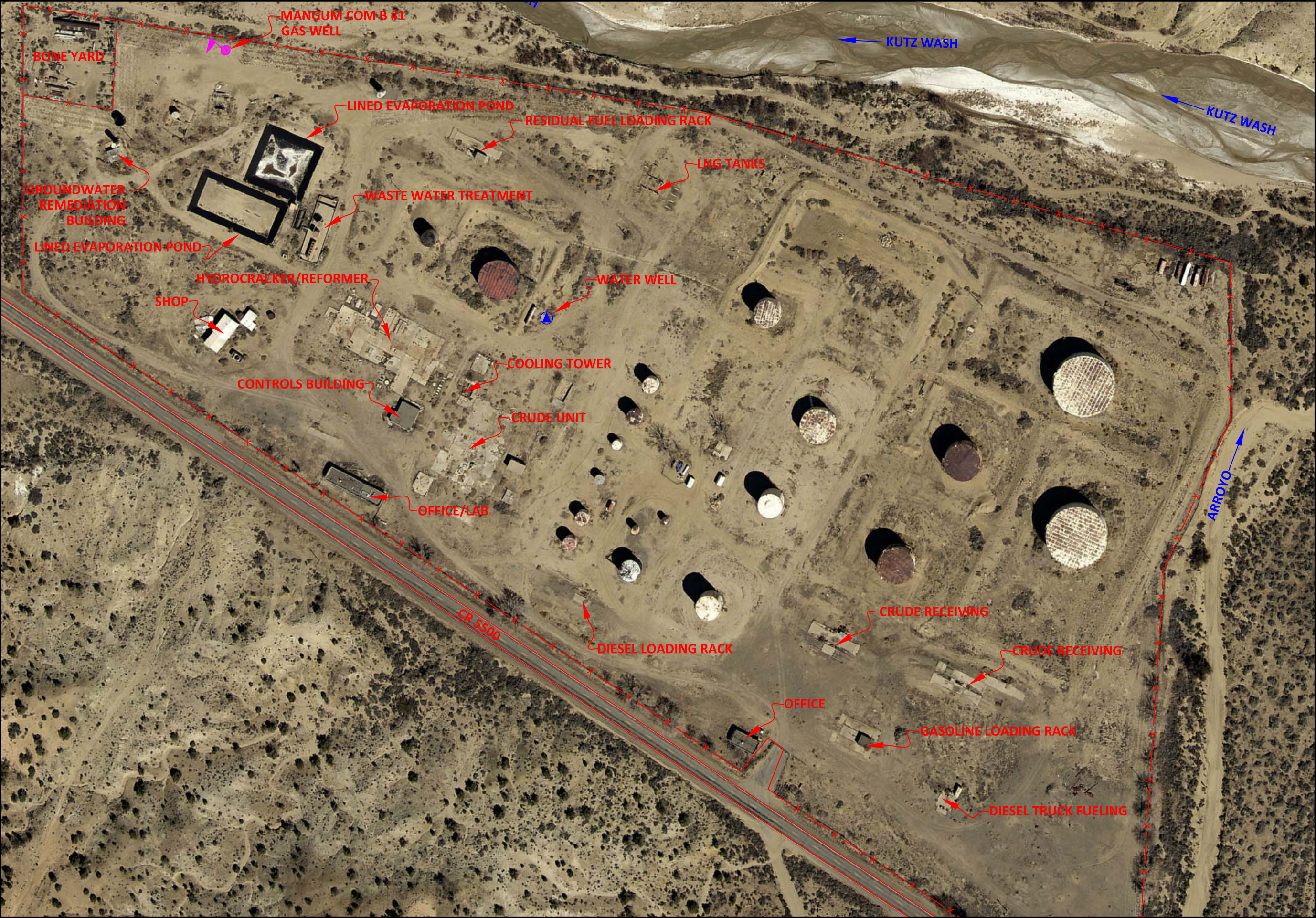
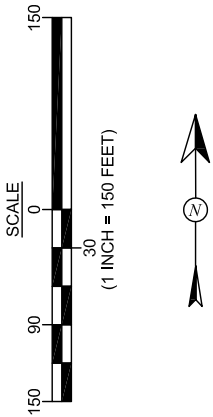


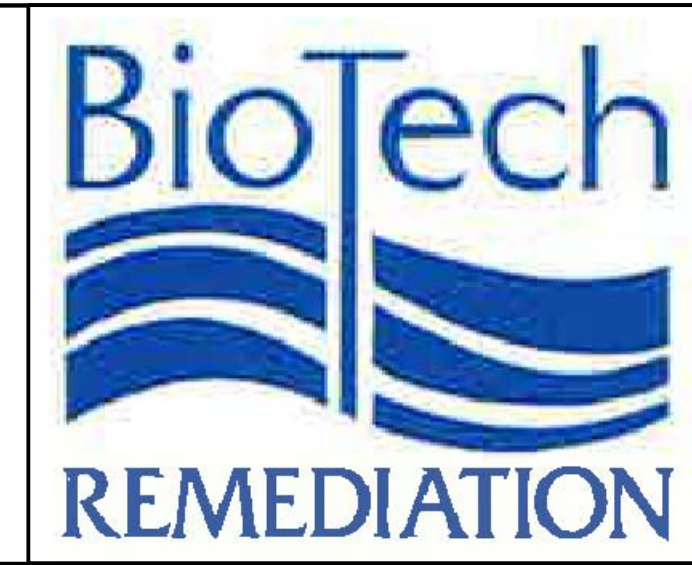
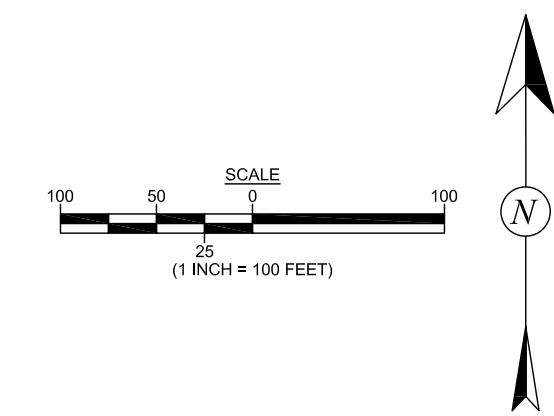
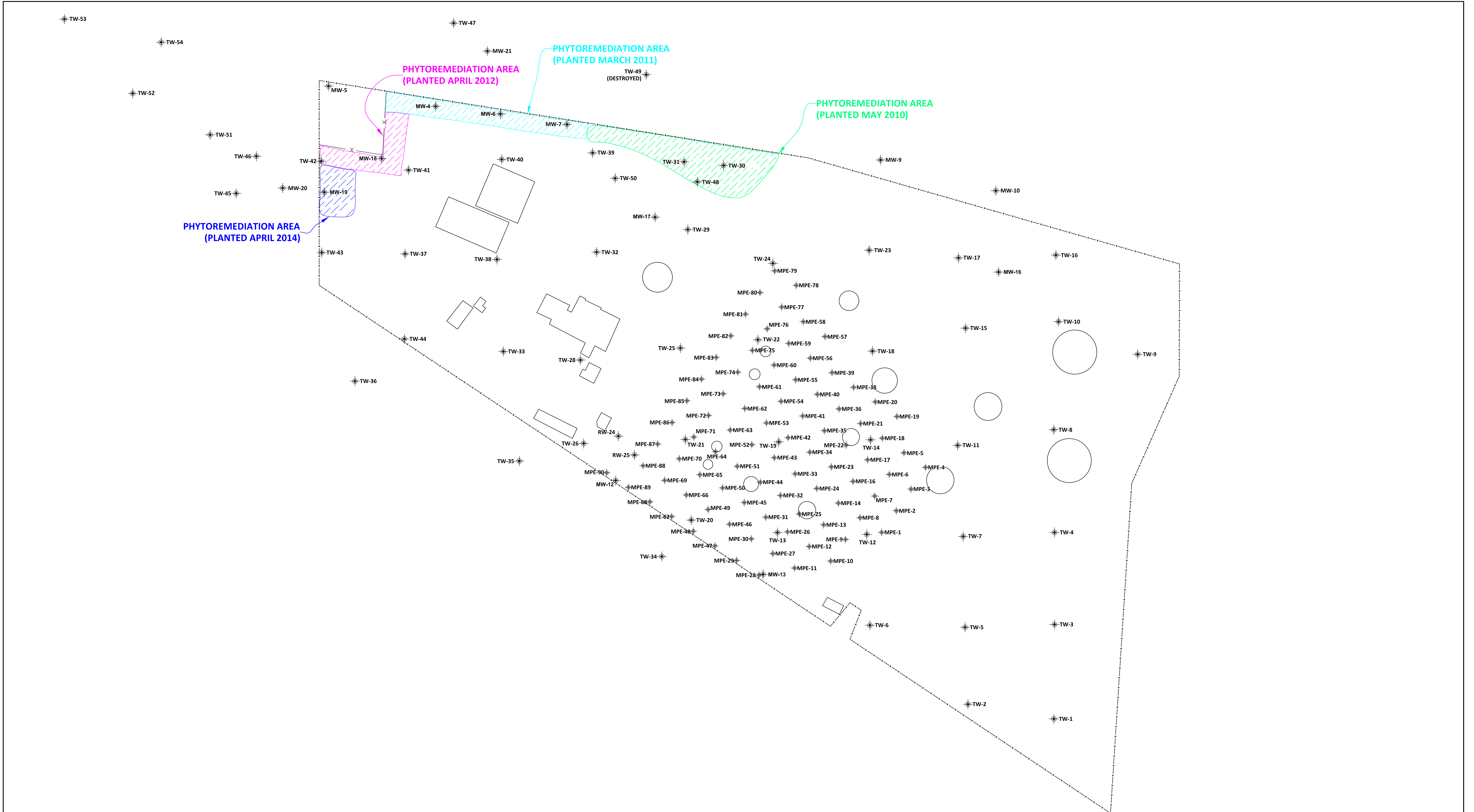
FIGURE 1

General Site Plan

THRIFTWAY REFINERY
626 CR 5500
BLOOMFIELD, NEW MEXICO

DATE DRAWN:	DATE REVISIONS BY:	DATE CHECKED BY:	DATE APPROVED BY:
January 11, 2016	R. Kennemer		

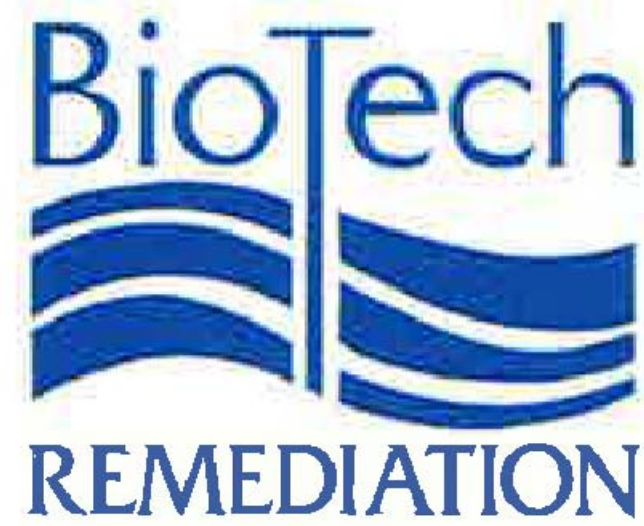
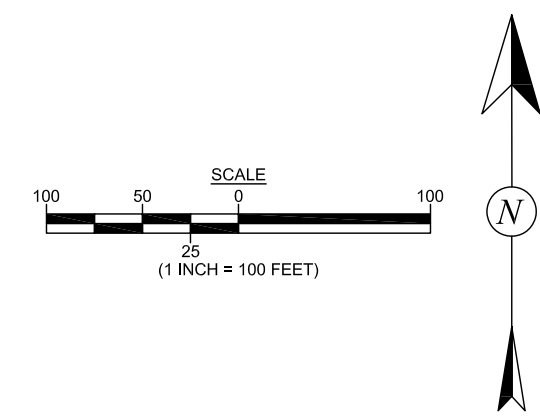
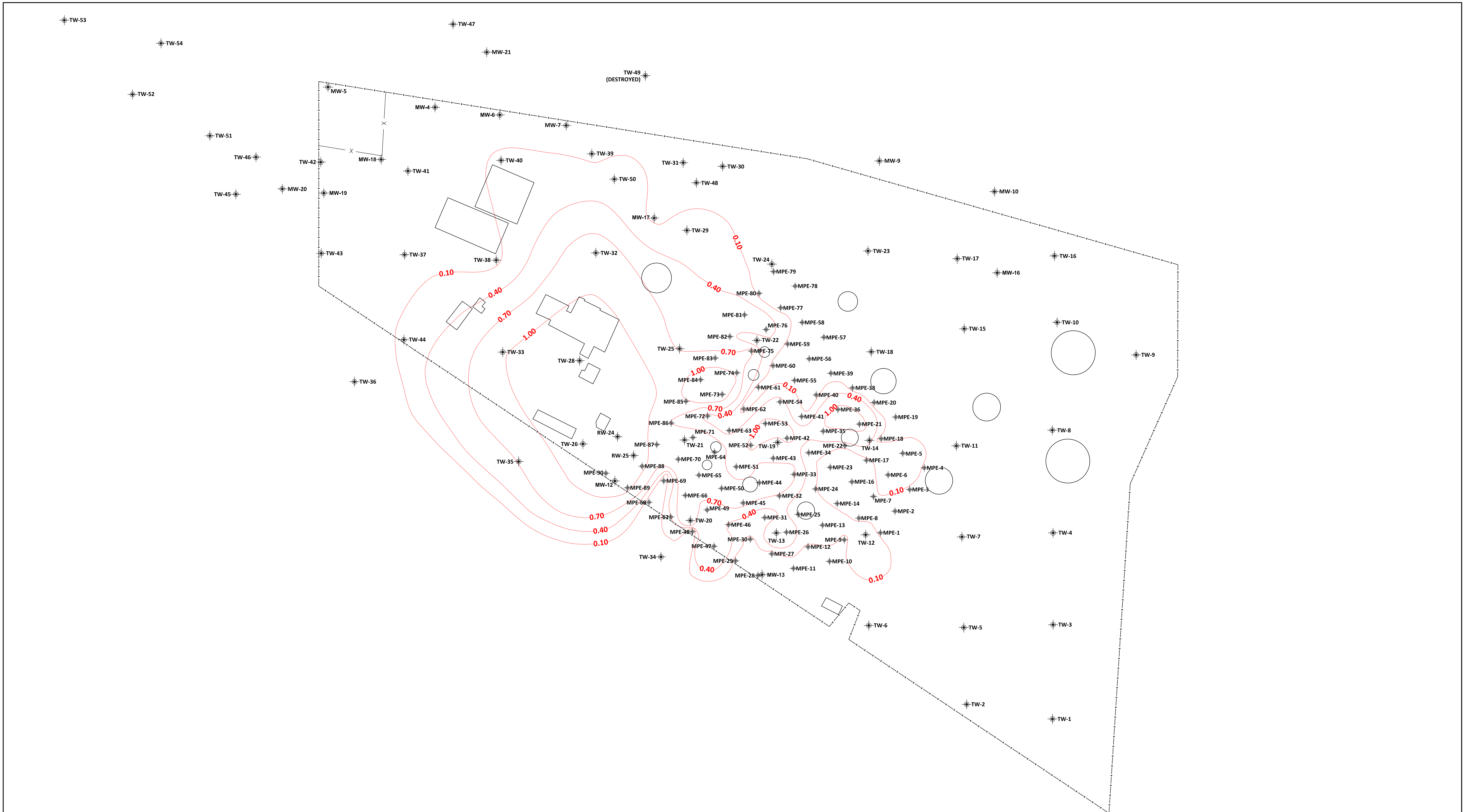




- LEGEND
- GROUNDWATER MONITOR WELL
 - MULTI-PHASE EXTRACTION WELL

FIGURE 2
MONITOR AND MPE WELLS AND
PHYTOREMEDIATION AREA

THRIFTWAY REFINERY
626 C.R. 5500
BLOOMFIELD, NEW MEXICO



- LEGEND**
- GROUNDWATER MONITOR WELL
 - MULTI-PHASE EXTRACTION WELL
 - 0.10 FREE PRODUCT THICKNESS CONTOUR (FEET)

FIGURE 3
FREE PRODUCT THICKNESS CONTOURS
SEPTEMBER 2016

THRIFTWAY REFINERY
626 C.R. 5500
BLOOMFIELD, NEW MEXICO

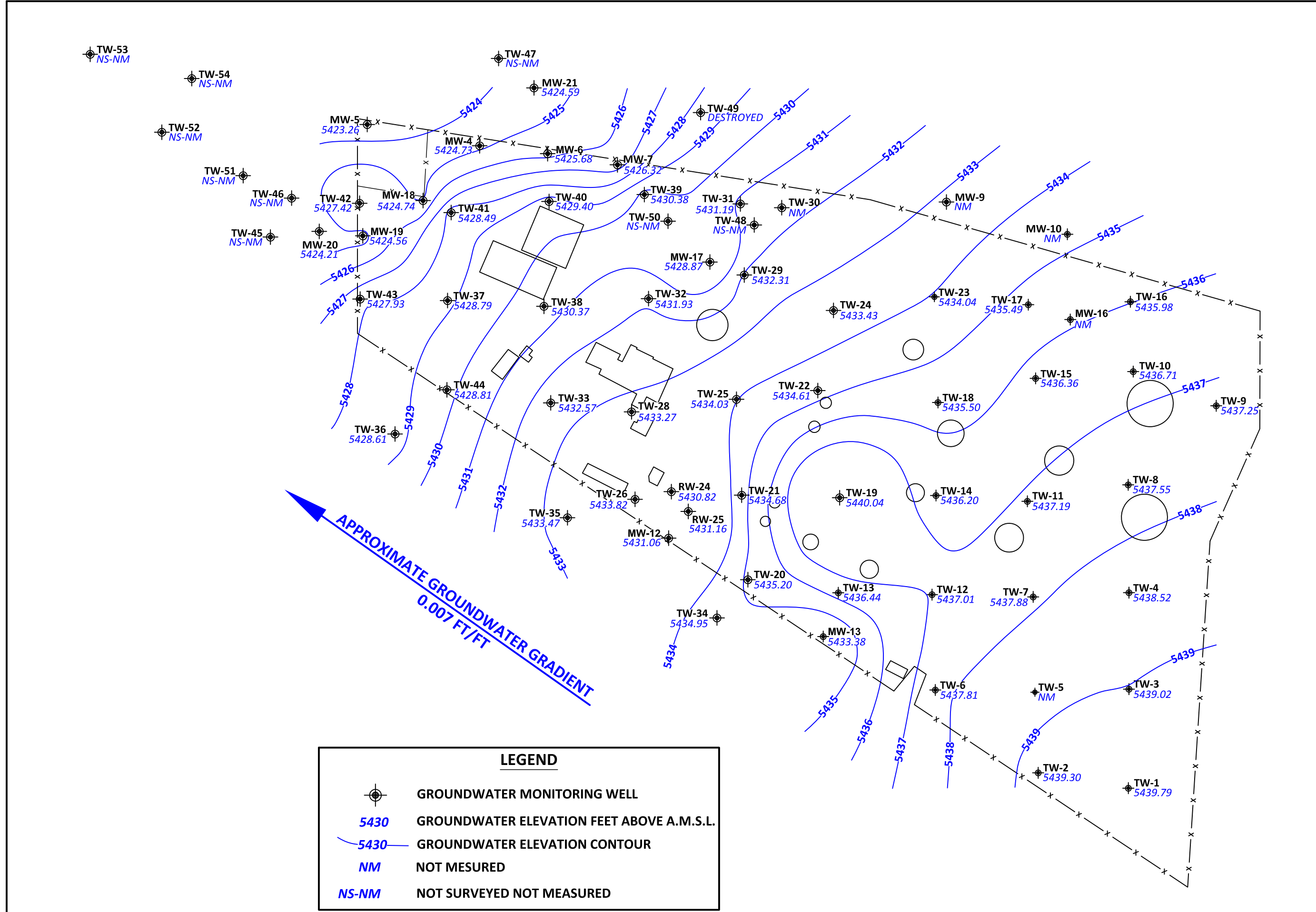


FIGURE 4

**GROUNDWATER ELEVATION CONTOURS
FEBRUARY 2016**

THRIFTWAY REFINERY
626 CR 5500
BLOOMFIELD, NEW MEXICO

DATE DRAWN: April 4, 2016	DATE REVISED: February 8, 2017	DATE CHECKED:	DATE APPROVED:
DRAWN BY: R. Kenemer	REVISIONS BY: R. Kenemer	CHECKED BY:	APPROVED BY:

SCALE

200
100
50
0
200

(1 INCH = 200 FEET)

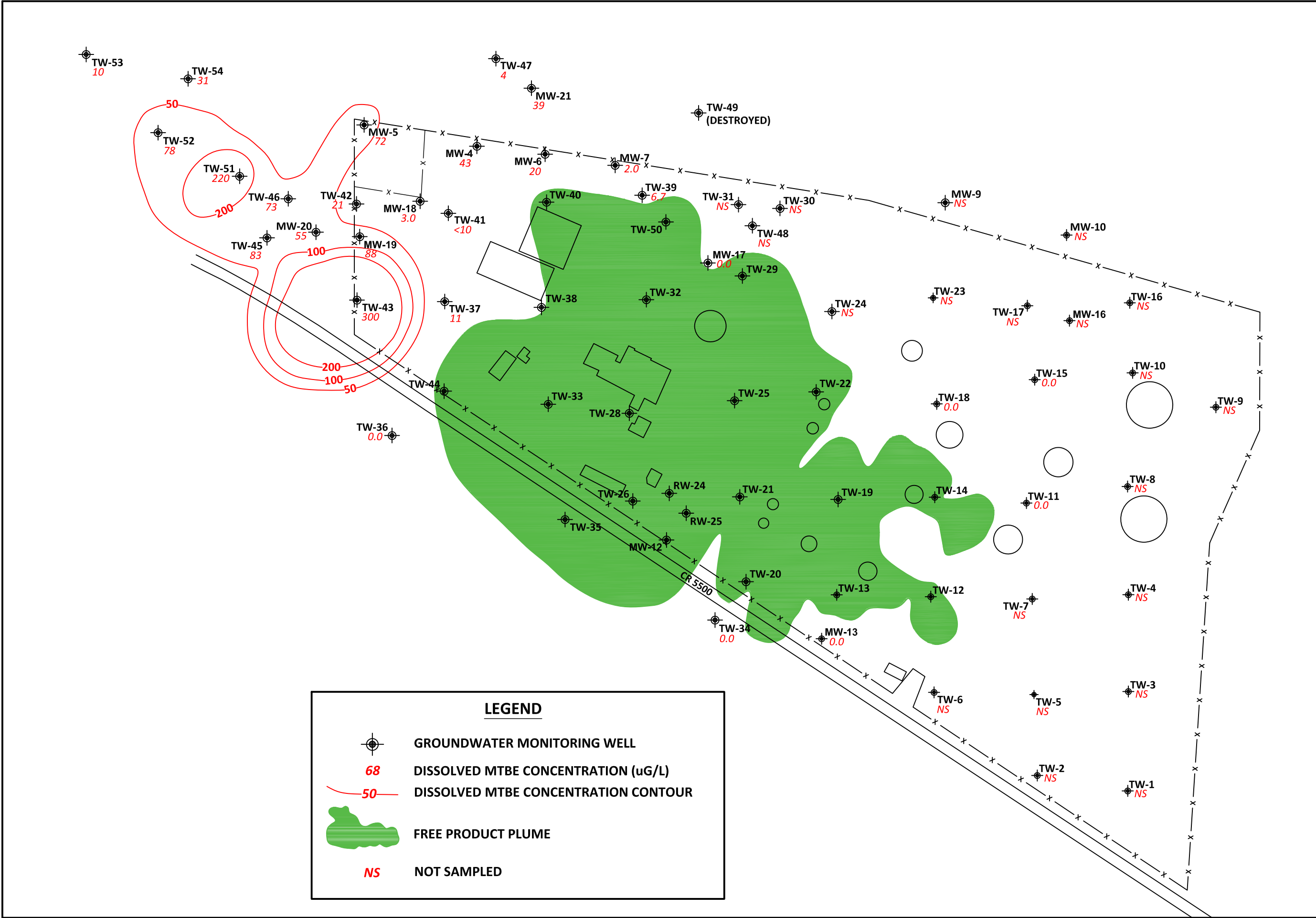


FIGURE 6

DISSOLVED MTBE CONCENTRATION CONTOURS
FEBRUARY 2016

THRIFTWAY REFINERY
626 CR 5500
BLOOMFIELD, NEW MEXICO

DATE DRAWN: February 9, 2017	DATE REVISED:	DATE CHECKED:	DATE APPROVED:
DRAWN BY: R. Kennermer	REVISIONS BY:	CHECKED BY:	APPROVED BY:

SCALE

200
100
50
0
200

(1 INCH = 200 FEET)

APPENDIX A.

DEPTH TO NAPL / GROUNDWATER MEASUREMENT FORM

BioTech Remediation, Inc.
501 Airport Drive, Suite 104
Farmington, NM 87401
Phone (505) 327-4965

Site:	810	Date:	9-7-16
Location:		Time:	09:00
Tech:		Form:	1 of

Well I.D.	Depth to NAPL (ft.)	Depth to Water (ft.)	Well I.D.	Depth to NAPL (ft.)	Depth to Water (ft.)
MPE-1		24.72			
MPE-2					
MPE-3		21.92'			
MPE-4		21.10'			
MPE-5	20.26	21.02			
MPE-6	20.75	20.99			
MPE-7	21.53	21.62'			
MPE-8		22.84'			
MPE-9		24.53			
MPE-10		24.33			
MPE-11		Roots			
MPE-12		Roots			
MPE-13	23.64'	24.31'			
MPE-14	22.85	22.88'			
MPE-16		21.00			
MPE-17		21.19'			
MPE-18		20.31'			
MPE-19		19.71'			
MPE-20	19.74'	19.75'			
MPE-21	20.61	22.21'			
MPE-22					
MPE-23		21.78'			
MPE-24	23.69'	23.71'			
MPE-25	24.5605	24.06'			
MPE-26	23.71'	24.49'			
MPE-27		Roots			
MPE-28		22.59'			
MPE-29		Roots			
MPE-30		Roots			
MPE-31		Roots			
MPE-32	23.18'	23.87'			
MPE-33	22.97'	23.96'			
MPE-34	21.69'	21.71'			
MPE-35	20.68'	21.49'			
MPE-36	20.95'	22.22			
MPE-38	20.68'	20.70'			

DEPTH TO NAPL / GROUNDWATER MEASUREMENT FORM

BioTech Remediation, Inc.
501 Airport Drive, Suite 104
Farmington, NM 87401
Phone (505) 327-4965

Site:	810	Date:	9-7-16
Location:		Time:	
Tech:		Form:	1 of

Well I.D.	Depth to NAPL (ft.)	Depth to Water (ft.)	Well I.D.	Depth to NAPL (ft.)	Depth to Water (ft.)
MPE-39		18.53'			
MPE-40		18.53'			
MPE-41	19.18'	19.20'			
MPE-42	19.71'	20.73'			
MPE-43	20.71'	21.29'			
MPE-44	20.46'	21.50'			
MPE-45	20.91'	21.75'			
MPE-46	22.17'	22.51'			
MPE-47	21.54'	22.78'			
MPE-48		20.83'			
MPE-49	20.37'	20.38'			
MPE-50	21.07'	22.59'			
MPE-51	21.37'	21.38'			
MPE-52	21.31'	22.32'			
MPE-53	20.01'	21.11'			
MPE-54	19.80'	20.41'			
MPE-55		19.37'			
MPE-56		14.80'			
MPE-57		15.92'			
MPE-58		15.75'			
MPE-59		14.39'			
MPE-60		14.65'			
MPE-61		14.51'			
MPE-62		14.86'			
MPE-63	15.53'	15.77'			
MPE-64	15.66'	16.86'			
MPE-65	16.45'	17.43'			
MPE-66	16.62'	17.69'			
MPE-67	18.01'	18.41'			
MPE-68	16.46'	16.46'			
MPE-69		15.81'			
MPE-70	15.85'	17.03'			
MPE-71	15.95'	17.01'			
MPE-72	16.42'	16.60'			
MPE-73	16.06'	17.86'			
MPE-74	15.12'	16.04'			

DEPTH TO NAPL / GROUNDWATER MEASUREMENT FORM

BioTech Remediation, Inc.
501 Airport Drive, Suite 104
Farmington, NM 87401
Phone (505) 327-4965

Site:	810	Date:	9-7-16
Location:		Time:	END - 11:00
Tech:		Form:	1 of

[illegible]

DEPTH TO NAPL / GROUNDWATER MEASUREMENT FORM

BioTech Remediation, Inc.
501 Airport Drive, Suite 104
Farmington, NM 87401
Phone (505) 327-4965

Site:		Date:	9-7-16
Location:	810	Time:	12:00
Tech:		Form:	1 of

Well I.D.	Depth to NAPL (ft.)	Depth to Water (ft.)	Well I.D.	Depth to NAPL (ft.)	Depth to Water (ft.)
TW-1		57.79 31.79'			
TW-2		30.01'			
TW-3		29.12'			
TW-4		20.20'			
TW-8		20.74			
TW-9		13.36'			
TW-10		13.45			
TW-5		ROOTS			
TW-6		25.76'			
TW-7		23.29'			
TW-11		19.12'			
TW-14	17.93'	18.56'			
TW-17		10.75'			
TW-23		9.60'			
TW-24		11.36'			
MW-16		9.74			
TW-16		12.47'			
MW-80		6.36'			
MW-109		Destroyed 6.67'			
TW-49		SAND IN / DESTROYED			
TW-30 * wasp					
TW-31		7.35'			
TW-48		6.98' ROOTS			
TW-50	8.05'	8.4 8.10'			
TW-32	9.51'	10.47'			
TW-40	8.08'	8.22'			
TW-44	15.23'	15.49'			
TW-33	13.11'	14.10'			
TW-28	15.38'	16.75'			
TW-26	16.31'	17.52'			
RW-24	16.65'	18.14'			
RW-25	17.25'	18.74'			
MW-12	14.80'	16.15'			
TW-25	14.66'	15.32'			
TW-21	16.98'	18.07'			
TW-19	18.30'	19.19'			

DEPTH TO NAPL / GROUNDWATER MEASUREMENT FORM

BioTech Remediation, Inc.
501 Airport Drive, Suite 104
Farmington, NM 87401
Phone (505) 327-4965

[illegible]

GROUNDWATER SAMPLING FORM

BioTech Remediation, Inc.
501 Airport Drive, Suite 104
Farmington, NM 87401
Phone (505) 327-4965

Site: 810		Technician:				
Location:		Date: 9-8-16				
Monitor Well ID.: TW-52		Time:				
Well Dia.:		Air Temp.:				
Purge / No Purge:		Weather:				
Total Well Depth:		Other:				
Initial D.T.W. (ft):		Time:	(taken at initial gauging of well)			
Confirm D.T.W. (ft): 7.70'		Time:	(taken prior to purging well)			
Final D.T.W. (ft):		Time:	(taken after sample collection)			
NAPL Present:	D.T.P. (ft):		D.T.W. (ft):			
Water Quality Parameters - Recorded During Well Purging						
Time	Temp (deg C)	Conductivity (uS) (mS)	DO (mg/L)	pH	ORP (mV)	Purge Vol. (gallons) see reverse
15:10	20.52°	8.04		7.27	-18.6	
Analytical Parameters (include analysis method and number and type of sampling containers)						
Disposal of Purged Water:						
Samples Stored on Ice in Cooler:						
C.O.C. Complete:						
Analytical Laboratory:						
Sampling Equipment:						
Notes / Comments						

[illegible]

GROUNDWATER SAMPLING FORM

BioTech Remediation, Inc.
501 Airport Drive, Suite 104
Farmington, NM 87401
Phone (505) 327-4965

Site:		Technician:	
Location:	810	Date:	9-8-14
Monitor Well ID.:	MW-20	Time:	
Well Dia.:		Air Temp.:	
Purge / No Purge:		Weather:	
Total Well Depth:		Other:	
Initial D.T.W. (ft):		Time:	(taken at initial gauging of well)
Confirm D.T.W. (ft):	6.24'	Time:	(taken prior to purging well)
Final D.T.W. (ft):		Time:	(taken after sample collection)
NAPL Present:	D.T.P. (ft):		D.T.W. (ft):
Water Quality Parameters - Recorded During Well Purging			
Time	Temp (deg C)	Conductivity (uS) (mS)	DO (mg/L)
			pH
			ORP (mV)
			Purge Vol. (gallons)
14:15	19.86	8.34	7.32
			-21.7
Analytical Parameters (include analysis method and number and type of sampling containers)			
Disposal of Purged Water:			
Samples Stored on Ice in Cooler:			
C.O.C. Complete:			
Analytical Laboratory:			
Sampling Equipment:			
Notes / Comments			

GROUNDWATER SAMPLING FORM				BioTech Remediation, Inc. 501 Airport Drive, Suite 104 Farmington, NM 87401 Phone (505) 327-4965		
Site:		810		Technician:		
Location:				Date:		9-8-16
Monitor Well ID.:		MW-46		Time:		
Well Dia.:				Air Temp.:		
Purge / No Purge:				Weather:		
Total Well Depth:				Other:		
Initial D.T.W. (ft):				Time:		(taken at initial gauging of well)
Confirm D.T.W. (ft):		7.61'		Time:		(taken prior to purging well)
Final D.T.W. (ft):				Time:		(taken after sample collection)
NAPL Present:		D.T.P. (ft):		D.T.W. (ft):		
Water Quality Parameters - Recorded During Well Purging						
Time	Temp (deg C)	Conductivity (uS) (mS)	DO (mg/L)	pH	ORP (mV)	Purge Vol. (gallons) see reverse
14:05	20.39	6.12		7.52	-33.1	-
Analytical Parameters (include analysis method and number and type of sampling containers)						
Disposal of Purged Water:						
Samples Stored on Ice in Cooler:						
C.O.C. Complete:						
Analytical Laboratory:						
Sampling Equipment:						
Notes / Comments						

GROUNDWATER SAMPLING FORM				BioTech Remediation, Inc. 501 Airport Drive, Suite 104 Farmington, NM 87401 Phone (505) 327-4965		
Site:		810		Technician:		
Location:				Date:		9-8-16
Monitor Well ID.:		TW-45		Time:		
Well Dia.:				Air Temp.:		
Purge / No Purge:				Weather:		
Total Well Depth:				Other:		
Initial D.T.W. (ft):		Time:		(taken at initial gauging of well)		
Confirm D.T.W. (ft):		7.28		Time:		(taken prior to purging well)
Final D.T.W. (ft):		Time:		(taken after sample collection)		
NAPL Present:		D.T.P. (ft):		D.T.W. (ft):		
Water Quality Parameters - Recorded During Well Purging						
Time	Temp (deg C)	Conductivity (uS) (mS)	DO (mg/L)	pH	ORP (mV)	Purge Vol. (gallons) see reverse
14:00	19.21°	5.248		7.24	-17.2	
Analytical Parameters (include analysis method and number and type of sampling containers)						
Disposal of Purged Water:						
Samples Stored on Ice in Cooler:						
C.O.C. Complete:						
Analytical Laboratory:						
Sampling Equipment:						
Notes / Comments						

GROUNDWATER SAMPLING FORM				BioTech Remediation, Inc. 501 Airport Drive, Suite 104 Farmington, NM 87401 Phone (505) 327-4965		
Site:		810		Technician:		
Location:				Date:		9-8-14
Monitor Well ID.:		MW-13		Time:		
Well Dia.:				Air Temp.:		
Purge / No Purge:				Weather:		
Total Well Depth:				Other:		
Initial D.T.W. (ft):				Time:		(taken at initial gauging of well)
Confirm D.T.W. (ft):		18.74'		Time:		(taken prior to purging well)
Final D.T.W. (ft):				Time:		(taken after sample collection)
NAPL Present:		D.T.P. (ft):		D.T.W. (ft):		
Water Quality Parameters - Recorded During Well Purging						
Time	Temp (deg C)	Conductivity (uS) (mS)	DO (mg/L)	pH	ORP (mV)	Purge Vol. (gallons) see reverse
13:40	15.90	5.584	7.38	7.38	-25.2	
Analytical Parameters (include analysis method and number and type of sampling containers)						
Disposal of Purged Water:						
Samples Stored on Ice in Cooler:						
C.O.C. Complete:						
Analytical Laboratory:						
Sampling Equipment:						
Notes / Comments						

GROUNDWATER SAMPLING FORM

BioTech Remediation, Inc.
501 Airport Drive, Suite 104
Farmington, NM 87401
Phone (505) 327-4965

Site:		Technician:				
Location:		Date: 9-8-16				
Monitor Well ID.: TW-3A		Time:				
Well Dia.:		Air Temp.:				
Purge / No Purge:		Weather:				
Total Well Depth:		Other:				
Initial D.T.W. (ft):		Time:	(taken at initial gauging of well)			
Confirm D.T.W. (ft): 20.85'		Time:	(taken prior to purging well)			
Final D.T.W. (ft):		Time:	(taken after sample collection)			
NAPL Present:	D.T.P. (ft):		D.T.W. (ft):			
Water Quality Parameters - Recorded During Well Purging						
Time	Temp (deg C)	Conductivity (uS) (mS)	DO (mg/L)	pH	ORP (mV)	Purge Vol. (gallons) see reverse
13:30	15.86	6.73		7.37	-24.3	
Analytical Parameters (include analysis method and number and type of sampling containers)						
Disposal of Purged Water:						
Samples Stored on Ice in Cooler:						
C.O.C. Complete:						
Analytical Laboratory:						
Sampling Equipment:						
Notes / Comments						

GROUNDWATER SAMPLING FORM				BioTech Remediation, Inc. 501 Airport Drive, Suite 104 Farmington, NM 87401 Phone (505) 327-4965		
Site:		810		Technician:		
Location:				Date:		9-8-16
Monitor Well ID.:		TW-36		Time:		
Well Dia.:				Air Temp.:		
Purge / No Purge:				Weather:		
Total Well Depth:				Other:		
Initial D.T.W. (ft):				Time:		(taken at initial gauging of well)
Confirm D.T.W. (ft):		13.30'		Time:		(taken prior to purging well)
Final D.T.W. (ft):				Time:		(taken after sample collection)
NAPL Present:		D.T.P. (ft):		D.T.W. (ft):		
Water Quality Parameters - Recorded During Well Purging						
Time	Temp (deg C)	Conductivity (uS) (mS)	DO (mg/L)	pH	ORP (mV)	Purge Vol. (gallons) see reverse
13:20	18.28	7.27		7.45	-28.6	
Analytical Parameters (include analysis method and number and type of sampling containers)						
Disposal of Purged Water:						
Samples Stored on Ice in Cooler:						
C.O.C. Complete:						
Analytical Laboratory:						
Sampling Equipment:						
Notes / Comments						

GROUNDWATER SAMPLING FORM				BioTech Remediation, Inc. 501 Airport Drive, Suite 104 Farmington, NM 87401 Phone (505) 327-4965		
Site:		810		Technician:		
Location:				Date:		
Monitor Well ID.:		Tw-38		Time:		
Well Dia.:				Air Temp.:		
Purge / No Purge:				Weather:		
Total Well Depth:				Other:		
Initial D.T.W. (ft):		Time:		(taken at initial gauging of well)		
Confirm D.T.W. (ft):		Time:		(taken prior to purging well)		
Final D.T.W. (ft):		Time:		(taken after sample collection)		
NAPL Present:		D.T.P. (ft): 11.73'		D.T.W. (ft): 11.76		
Water Quality Parameters - Recorded During Well Purging						
Time	Temp (deg C)	Conductivity (uS) (mS)	DO (mg/L)	pH	ORP (mV)	Purge Vol. (gallons) see reverse
Analytical Parameters (include analysis method and number and type of sampling containers)						
NO Sample / NAPL						
Disposal of Purged Water:						
Samples Stored on Ice in Cooler:						
C.O.C. Complete:						
Analytical Laboratory:						
Sampling Equipment:						
Notes / Comments						

GROUNDWATER SAMPLING FORM				BioTech Remediation, Inc. 501 Airport Drive, Suite 104 Farmington, NM 87401 Phone (505) 327-4965		
Site:		810		Technician:		
Location:				Date:		9-8-16
Monitor Well ID.:		Tw-37		Time:		
Well Dia.:				Air Temp.:		
Purge / No Purge:				Weather:		
Total Well Depth:				Other:		
Initial D.T.W. (ft):				Time:		(taken at initial gauging of well)
Confirm D.T.W. (ft):		10.80'		Time:		(taken prior to purging well)
Final D.T.W. (ft):				Time:		(taken after sample collection)
NAPL Present:		D.T.P. (ft):		D.T.W. (ft):		
Water Quality Parameters - Recorded During Well Purging						
Time	Temp (deg C)	Conductivity (uS) (mS)	DO (mg/L)	pH	ORP (mV)	Purge Vol. (gallons) see reverse
12:10	19.34	4.56		7.32	-21.9	
Analytical Parameters (include analysis method and number and type of sampling containers)						
Disposal of Purged Water:						
Samples Stored on Ice in Cooler:						
C.O.C. Complete:						
Analytical Laboratory:						
Sampling Equipment:						
Notes / Comments						

GROUNDWATER SAMPLING FORM				BioTech Remediation, Inc. 501 Airport Drive, Suite 104 Farmington, NM 87401 Phone (505) 327-4965		
Site:		810		Technician:		
Location:				Date:		9-8-14
Monitor Well ID.:		TW-43		Time:		
Well Dia.:		2"		Air Temp.:		
Purge / No Purge:		—		Weather:		
Total Well Depth:				Other:		
Initial D.T.W. (ft):		Time:		(taken at initial gauging of well)		
Confirm D.T.W. (ft):		12.49'		Time:		(taken prior to purging well)
Final D.T.W. (ft):		Time:		(taken after sample collection)		
NAPL Present:		D.T.P. (ft):		D.T.W. (ft):		
Water Quality Parameters - Recorded During Well Purging						
Time	Temp (deg C)	Conductivity (uS) (mS)	DO (mg/L)	pH	ORP (mV)	Purge Vol. (gallons) see reverse
11:55	18.98°	5.14		7.23	-16.3	
Analytical Parameters (include analysis method and number and type of sampling containers)						
Disposal of Purged Water:						
Samples Stored on Ice in Cooler:						
C.O.C. Complete:						
Analytical Laboratory:						
Sampling Equipment:						
Notes / Comments						

GROUNDWATER SAMPLING FORM

BioTech Remediation, Inc.
501 Airport Drive, Suite 104
Farmington, NM 87401
Phone (505) 327-4965

Site:	810	Technician:	
Location:		Date:	9-8-16
Monitor Well ID.:	MW-19	Time:	
Well Dia.:		Air Temp.:	
Purge / No Purge:		Weather:	
Total Well Depth:		Other:	
Initial D.T.W. (ft):		Time:	(taken at initial gauging of well)
Confirm D.T.W. (ft):	4.13'	Time:	(taken prior to purging well)
Final D.T.W. (ft):		Time:	(taken after sample collection)
NAPL Present:	D.T.P. (ft):		D.T.W. (ft):

Water Quality Parameters - Recorded During Well Purging

[illegible]

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

Disposal of Purged Water:	
Samples Stored on Ice in Cooler:	
C.O.C. Complete:	
Analytical Laboratory:	
Sampling Equipment:	

Notes / Comments

GROUNDWATER SAMPLING FORM				BioTech Remediation, Inc. 501 Airport Drive, Suite 104 Farmington, NM 87401 Phone (505) 327-4965			
Site:				Technician:			
Location:				Date:		9-8-16	
Monitor Well ID.:		TW-42		Time:			
Well Dia.:		2		Air Temp.:			
Purge / No Purge:		—		Weather:			
Total Well Depth:				Other:			
Initial D.T.W. (ft):				Time:		(taken at initial gauging of well)	
Confirm D.T.W. (ft):		6.34'		Time:		(taken prior to purging well)	
Final D.T.W. (ft):				Time:		(taken after sample collection)	
NAPL Present:		D.T.P. (ft):		D.T.W. (ft):			
Water Quality Parameters - Recorded During Well Purging							
Time	Temp (deg C)	Conductivity (uS) (mS)	DO (mg/L)	pH	ORP (mV)	Purge Vol. (gallons)	
11:35	20.86°	6.46		7.37	-24.8	— see reverse	
Analytical Parameters (include analysis method and number and type of sampling containers)							
Disposal of Purged Water:							
Samples Stored on Ice in Cooler:							
C.O.C. Complete:							
Analytical Laboratory:							
Sampling Equipment:							
Notes / Comments							

GROUNDWATER SAMPLING FORM				BioTech Remediation, Inc. 501 Airport Drive, Suite 104 Farmington, NM 87401 Phone (505) 327-4965		
Site:		810		Technician:		
Location:				Date:		9-8-16
Monitor Well ID.:		TW-41		Time:		
Well Dia.:				Air Temp.:		
Purge / No Purge:				Weather:		
Total Well Depth:				Other:		
Initial D.T.W. (ft):				Time:		(taken at initial gauging of well)
Confirm D.T.W. (ft):		6.28'		Time:		(taken prior to purging well)
Final D.T.W. (ft):				Time:		(taken after sample collection)
NAPL Present:		D.T.P. (ft):		D.T.W. (ft):		
Water Quality Parameters - Recorded During Well Purging						
Time	Temp (deg C)	Conductivity (uS) (mS)	DO (mg/L)	pH	ORP (mV)	Purge Vol. (gallons) see reverse
11:25	20.93°	6.55		7.29	-20.3	
Analytical Parameters (include analysis method and number and type of sampling containers)						
Disposal of Purged Water:						
Samples Stored on Ice in Cooler:						
C.O.C. Complete:						
Analytical Laboratory:						
Sampling Equipment:						
Notes / Comments						

GROUNDWATER SAMPLING FORM				BioTech Remediation, Inc. 501 Airport Drive, Suite 104 Farmington, NM 87401 Phone (505) 327-4965		
Site:		810		Technician:		
Location:				Date:		9-8-14
Monitor Well ID.:		MW-5		Time:		
Well Dia.:		-		Air Temp.:		
Purge / No Purge:		-		Weather:		
Total Well Depth:				Other:		
Initial D.T.W. (ft):				Time:		(taken at initial gauging of well)
Confirm D.T.W. (ft):		5.71'		Time:		(taken prior to purging well)
Final D.T.W. (ft):				Time:		(taken after sample collection)
NAPL Present:		D.T.P. (ft):		D.T.W. (ft):		
Water Quality Parameters - Recorded During Well Purging						
Time	Temp (deg C)	Conductivity (uS) (mS)	DO (mg/L)	pH	ORP (mV)	Purge Vol. (gallons) see reverse
11:10	19.24	5.59		7.89	-53.8	
Analytical Parameters (include analysis method and number and type of sampling containers)						
Disposal of Purged Water:						
Samples Stored on Ice in Cooler:						
C.O.C. Complete:						
Analytical Laboratory:						
Sampling Equipment:						
Notes / Comments						

GROUNDWATER SAMPLING FORM				BioTech Remediation, Inc. 501 Airport Drive, Suite 104 Farmington, NM 87401 Phone (505) 327-4965		
Site:		810		Technician:		
Location:				Date:		9-8-16
Monitor Well ID.:		MW-18		Time:		
Well Dia.:		2		Air Temp.:		
Purge / No Purge:		—		Weather:		
Total Well Depth:				Other:		
Initial D.T.W. (ft):				Time:		(taken at initial gauging of well)
Confirm D.T.W. (ft):		4.21		Time:		(taken prior to purging well)
Final D.T.W. (ft):				Time:		(taken after sample collection)
NAPL Present:		D.T.P. (ft):		D.T.W. (ft):		
Water Quality Parameters - Recorded During Well Purging						
Time	Temp (deg C)	Conductivity (uS) (mS)	DO (mg/L)	pH	ORP (mV)	Purge Vol. (gallons) see reverse
11:00	20.68°	4.36		7.50	-32.1	—
Analytical Parameters (include analysis method and number and type of sampling containers)						
Disposal of Purged Water:						
Samples Stored on Ice in Cooler:						
C.O.C. Complete:						
Analytical Laboratory:						
Sampling Equipment:						
Notes / Comments						

[illegible]

GROUNDWATER SAMPLING FORM				BioTech Remediation, Inc. 501 Airport Drive, Suite 104 Farmington, NM 87401 Phone (505) 327-4965			
Site:				Technician:			
Location:		810		Date:		9-8-14	
Monitor Well ID.:		mw-6		Time:			
Well Dia.:				Air Temp.:			
Purge / No Purge:				Weather:			
Total Well Depth:				Other:			
Initial D.T.W. (ft):				Time:		(taken at initial gauging of well)	
Confirm D.T.W. (ft):		5.02'		Time:		(taken prior to purging well)	
Final D.T.W. (ft):				Time:		(taken after sample collection)	
NAPL Present:		D.T.P. (ft):		D.T.W. (ft):			
Water Quality Parameters - Recorded During Well Purging							
Time	Temp (deg C)	Conductivity (uS) (mS)	DO (mg/L)	pH	ORP (mV)	Purge Vol. (gallons)	
10:30	20.47	6.39		7.47	-30.0	see reverse	
Analytical Parameters (include analysis method and number and type of sampling containers)							
Disposal of Purged Water:							
Samples Stored on Ice in Cooler:							
C.O.C. Complete:							
Analytical Laboratory:							
Sampling Equipment:							
Notes / Comments							

GROUNDWATER SAMPLING FORM				BioTech Remediation, Inc. 501 Airport Drive, Suite 104 Farmington, NM 87401 Phone (505) 327-4965			
Site:				Technician:			
Location:		810		Date:		9-8-16	
Monitor Well ID.:		MW-17		Time:			
Well Dia.:				Air Temp.:			
Purge / No Purge:				Weather:			
Total Well Depth:				Other:			
Initial D.T.W. (ft):				Time:		(taken at initial gauging of well)	
Confirm D.T.W. (ft):		6.33'		Time:		(taken prior to purging well)	
Final D.T.W. (ft):				Time:		(taken after sample collection)	
NAPL Present:		D.T.P. (ft):		D.T.W. (ft):			
Water Quality Parameters - Recorded During Well Purging							
Time	Temp (deg C)	Conductivity (uS) (mS)	DO (mg/L)	pH	ORP (mV)	Purge Vol. (gallons)	
09:55	20.06	4.87		7.25	-17.6	see reverse	
Analytical Parameters (include analysis method and number and type of sampling containers)							
Disposal of Purged Water:							
Samples Stored on Ice in Cooler:							
C.O.C. Complete:							
Analytical Laboratory:							
Sampling Equipment:							
Notes / Comments							

GROUNDWATER SAMPLING FORM				BioTech Remediation, Inc. 501 Airport Drive, Suite 104 Farmington, NM 87401 Phone (505) 327-4965		
Site:		810		Technician:		
Location:				Date:		9-8-16
Monitor Well ID.:		TW-29		Time:		
Well Dia.:		42"		Air Temp.:		
Purge / No Purge:		NP		Weather:		
Total Well Depth:				Other:		
Initial D.T.W. (ft):				Time:		(taken at initial gauging of well)
Confirm D.T.W. (ft):		9.77'		Time:		(taken prior to purging well)
Final D.T.W. (ft):				Time:		(taken after sample collection)
NAPL Present:		D.T.P. (ft): 9.51'		D.T.W. (ft): 9.78'		
Water Quality Parameters - Recorded During Well Purging						
Time	Temp (deg C)	Conductivity (uS) (mS)	DO (mg/L)	pH	ORP (mV)	Purge Vol. (gallons) see reverse
Analytical Parameters (include analysis method and number and type of sampling containers)						
NO Sample / NAPL						
Disposal of Purged Water:						
Samples Stored on Ice in Cooler:						
C.O.C. Complete:						
Analytical Laboratory:						
Sampling Equipment:						
Notes / Comments						

GROUNDWATER SAMPLING FORM

BioTech Remediation, Inc.
501 Airport Drive, Suite 104
Farmington, NM 87401
Phone (505) 327-4965

Site:		810		Technician:			
Location:				Date:		9-8-16	
Monitor Well ID.:		TW-22		Time:			
Well Dia.:				Air Temp.:			
Purge / No Purge:				Weather:			
Total Well Depth:				Other:			
Initial D.T.W. (ft):				Time:		(taken at initial gauging of well)	
Confirm D.T.W. (ft):				Time:		(taken prior to purging well)	
Final D.T.W. (ft):				Time:		(taken after sample collection)	
NAPL Present:		D.T.P. (ft): 15.55		D.T.W. (ft): 15.71			
Water Quality Parameters - Recorded During Well Purging							
Time	Temp (deg C)	Conductivity (uS) (mS)	DO (mg/L)	pH	ORP (mV)	Purge Vol. (gallons)	see reverse
09:40							
Analytical Parameters (include analysis method and number and type of sampling containers)							
No Sample / NAPL							
Disposal of Purged Water:							
Samples Stored on Ice in Cooler:							
C.O.C. Complete:							
Analytical Laboratory:							
Sampling Equipment:							
Notes / Comments							

APPENDIX B.



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

September 14, 2016

Ross Kennemer
Biotech Remediation, Inc.
501 Airport Dr
Farmington, NM 87401
TEL:
FAX

RE: Thriftway Refinery

OrderNo.: 1609443

Dear Ross Kennemer:

Hall Environmental Analysis Laboratory received 27 sample(s) on 9/9/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: TW-11

Project: Thriftway Refinery

Collection Date: 9/8/2016 9:00:00 AM

Lab ID: 1609443-001

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	ND	1.0		µg/L	1	9/12/2016 10:53:00 AM	R37127
Toluene	ND	1.0		µg/L	1	9/12/2016 10:53:00 AM	R37127
Ethylbenzene	ND	1.0		µg/L	1	9/12/2016 10:53:00 AM	R37127
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/12/2016 10:53:00 AM	R37127
Xylenes, Total	ND	1.5		µg/L	1	9/12/2016 10:53:00 AM	R37127
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	9/12/2016 10:53:00 AM	R37127
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	9/12/2016 10:53:00 AM	R37127
Surr: Dibromofluoromethane	100	70-130		%Rec	1	9/12/2016 10:53:00 AM	R37127
Surr: Toluene-d8	98.9	70-130		%Rec	1	9/12/2016 10:53:00 AM	R37127

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: TW-15

Project: Thriftway Refinery

Collection Date: 9/8/2016 9:10:00 AM

Lab ID: 1609443-002

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	ND	1.0		µg/L	1	9/12/2016 12:27:00 PM	R37127
Toluene	ND	1.0		µg/L	1	9/12/2016 12:27:00 PM	R37127
Ethylbenzene	ND	1.0		µg/L	1	9/12/2016 12:27:00 PM	R37127
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/12/2016 12:27:00 PM	R37127
Xylenes, Total	ND	1.5		µg/L	1	9/12/2016 12:27:00 PM	R37127
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	9/12/2016 12:27:00 PM	R37127
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	9/12/2016 12:27:00 PM	R37127
Surr: Dibromofluoromethane	105	70-130		%Rec	1	9/12/2016 12:27:00 PM	R37127
Surr: Toluene-d8	101	70-130		%Rec	1	9/12/2016 12:27:00 PM	R37127

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: TW-18

Project: Thriftway Refinery

Collection Date: 9/8/2016 9:30:00 AM

Lab ID: 1609443-003

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	ND	1.0		µg/L	1	9/12/2016 12:51:00 PM	R37127
Toluene	ND	1.0		µg/L	1	9/12/2016 12:51:00 PM	R37127
Ethylbenzene	ND	1.0		µg/L	1	9/12/2016 12:51:00 PM	R37127
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/12/2016 12:51:00 PM	R37127
Xylenes, Total	ND	1.5		µg/L	1	9/12/2016 12:51:00 PM	R37127
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	9/12/2016 12:51:00 PM	R37127
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/12/2016 12:51:00 PM	R37127
Surr: Dibromofluoromethane	105	70-130		%Rec	1	9/12/2016 12:51:00 PM	R37127
Surr: Toluene-d8	99.9	70-130		%Rec	1	9/12/2016 12:51:00 PM	R37127

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: MW-17

Project: Thriftway Refinery

Collection Date: 9/8/2016 9:55:00 AM

Lab ID: 1609443-004

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	ND	1.0		µg/L	1	9/12/2016 1:15:00 PM	R37127
Toluene	ND	1.0		µg/L	1	9/12/2016 1:15:00 PM	R37127
Ethylbenzene	ND	1.0		µg/L	1	9/12/2016 1:15:00 PM	R37127
Methyl tert-butyl ether (MTBE)	11	1.0		µg/L	1	9/12/2016 1:15:00 PM	R37127
Xylenes, Total	ND	1.5		µg/L	1	9/12/2016 1:15:00 PM	R37127
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	9/12/2016 1:15:00 PM	R37127
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/12/2016 1:15:00 PM	R37127
Surr: Dibromofluoromethane	104	70-130		%Rec	1	9/12/2016 1:15:00 PM	R37127
Surr: Toluene-d8	99.8	70-130		%Rec	1	9/12/2016 1:15:00 PM	R37127

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: TW-39

Project: Thriftway Refinery

Collection Date: 9/8/2016 10:05:00 AM

Lab ID: 1609443-005

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	ND	1.0		µg/L	1	9/13/2016 10:28:00 AM	R37159
Toluene	ND	1.0		µg/L	1	9/13/2016 10:28:00 AM	R37159
Ethylbenzene	11	1.0		µg/L	1	9/13/2016 10:28:00 AM	R37159
Methyl tert-butyl ether (MTBE)	6.7	1.0		µg/L	1	9/13/2016 10:28:00 AM	R37159
Xylenes, Total	5.7	1.5		µg/L	1	9/13/2016 10:28:00 AM	R37159
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	9/13/2016 10:28:00 AM	R37159
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	9/13/2016 10:28:00 AM	R37159
Surr: Dibromofluoromethane	97.6	70-130		%Rec	1	9/13/2016 10:28:00 AM	R37159
Surr: Toluene-d8	99.2	70-130		%Rec	1	9/13/2016 10:28:00 AM	R37159

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1609443

Date Reported: 9/14/2016

CLIENT: Biotech Remediation, Inc.

Client Sample ID: MW-7

Project: Thriftway Refinery

Collection Date: 9/8/2016 10:20:00 AM

Lab ID: 1609443-006

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	ND	1.0		µg/L	1	9/12/2016 2:02:00 PM	R37127
Toluene	ND	1.0		µg/L	1	9/12/2016 2:02:00 PM	R37127
Ethylbenzene	ND	1.0		µg/L	1	9/12/2016 2:02:00 PM	R37127
Methyl tert-butyl ether (MTBE)	2.4	1.0		µg/L	1	9/12/2016 2:02:00 PM	R37127
Xylenes, Total	ND	1.5		µg/L	1	9/12/2016 2:02:00 PM	R37127
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	9/12/2016 2:02:00 PM	R37127
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/12/2016 2:02:00 PM	R37127
Surr: Dibromofluoromethane	106	70-130		%Rec	1	9/12/2016 2:02:00 PM	R37127
Surr: Toluene-d8	99.9	70-130		%Rec	1	9/12/2016 2:02:00 PM	R37127

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: MW-6

Project: Thriftway Refinery

Collection Date: 9/8/2016 10:30:00 AM

Lab ID: 1609443-007

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	ND	1.0	P	µg/L	1	9/12/2016 2:25:00 PM	R37127
Toluene	ND	1.0	P	µg/L	1	9/12/2016 2:25:00 PM	R37127
Ethylbenzene	ND	1.0	P	µg/L	1	9/12/2016 2:25:00 PM	R37127
Methyl tert-butyl ether (MTBE)	20	1.0	P	µg/L	1	9/12/2016 2:25:00 PM	R37127
Xylenes, Total	ND	1.5	P	µg/L	1	9/12/2016 2:25:00 PM	R37127
Surr: 1,2-Dichloroethane-d4	105	70-130	P	%Rec	1	9/12/2016 2:25:00 PM	R37127
Surr: 4-Bromofluorobenzene	102	70-130	P	%Rec	1	9/12/2016 2:25:00 PM	R37127
Surr: Dibromofluoromethane	105	70-130	P	%Rec	1	9/12/2016 2:25:00 PM	R37127
Surr: Toluene-d8	100	70-130	P	%Rec	1	9/12/2016 2:25:00 PM	R37127

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: MW-4

Project: Thriftway Refinery

Collection Date: 9/8/2016 10:45:00 AM

Lab ID: 1609443-008

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: BCN	
Benzene	ND	1.0		µg/L	1	9/13/2016 10:52:00 AM	R37159
Toluene	ND	1.0		µg/L	1	9/13/2016 10:52:00 AM	R37159
Ethylbenzene	ND	1.0		µg/L	1	9/13/2016 10:52:00 AM	R37159
Methyl tert-butyl ether (MTBE)	43	1.0		µg/L	1	9/13/2016 10:52:00 AM	R37159
Xylenes, Total	ND	1.5		µg/L	1	9/13/2016 10:52:00 AM	R37159
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	9/13/2016 10:52:00 AM	R37159
Surr: 4-Bromofluorobenzene	105	70-130		%Rec	1	9/13/2016 10:52:00 AM	R37159
Surr: Dibromofluoromethane	99.2	70-130		%Rec	1	9/13/2016 10:52:00 AM	R37159
Surr: Toluene-d8	99.2	70-130		%Rec	1	9/13/2016 10:52:00 AM	R37159

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: MW-18

Project: Thriftway Refinery

Collection Date: 9/8/2016 11:00:00 AM

Lab ID: 1609443-009

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	ND	1.0		µg/L	1	9/13/2016 11:15:00 AM	R37159
Toluene	ND	1.0		µg/L	1	9/13/2016 11:15:00 AM	R37159
Ethylbenzene	ND	1.0		µg/L	1	9/13/2016 11:15:00 AM	R37159
Methyl tert-butyl ether (MTBE)	3.0	1.0		µg/L	1	9/13/2016 11:15:00 AM	R37159
Xylenes, Total	ND	1.5		µg/L	1	9/13/2016 11:15:00 AM	R37159
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	9/13/2016 11:15:00 AM	R37159
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	9/13/2016 11:15:00 AM	R37159
Surr: Dibromofluoromethane	100	70-130		%Rec	1	9/13/2016 11:15:00 AM	R37159
Surr: Toluene-d8	99.2	70-130		%Rec	1	9/13/2016 11:15:00 AM	R37159

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: MW-5

Project: Thriftway Refinery

Collection Date: 9/8/2016 11:10:00 AM

Lab ID: 1609443-010

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: BCN	
Benzene	ND	1.0		µg/L	1	9/12/2016 4:00:00 PM	R37127
Toluene	ND	1.0		µg/L	1	9/12/2016 4:00:00 PM	R37127
Ethylbenzene	ND	1.0		µg/L	1	9/12/2016 4:00:00 PM	R37127
Methyl tert-butyl ether (MTBE)	72	1.0		µg/L	1	9/12/2016 4:00:00 PM	R37127
Xylenes, Total	ND	1.5		µg/L	1	9/12/2016 4:00:00 PM	R37127
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	9/12/2016 4:00:00 PM	R37127
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	9/12/2016 4:00:00 PM	R37127
Surr: Dibromofluoromethane	107	70-130		%Rec	1	9/12/2016 4:00:00 PM	R37127
Surr: Toluene-d8	101	70-130		%Rec	1	9/12/2016 4:00:00 PM	R37127

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1609443

Date Reported: 9/14/2016

CLIENT: Biotech Remediation, Inc.

Client Sample ID: TW-41

Project: Thriftway Refinery

Collection Date: 9/8/2016 11:25:00 AM

Lab ID: 1609443-011

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	79	10	P	µg/L	10	9/12/2016 4:23:00 PM	R37127
Toluene	ND	10	P	µg/L	10	9/12/2016 4:23:00 PM	R37127
Ethylbenzene	250	10	P	µg/L	10	9/12/2016 4:23:00 PM	R37127
Methyl tert-butyl ether (MTBE)	ND	10	P	µg/L	10	9/12/2016 4:23:00 PM	R37127
Xylenes, Total	170	15	P	µg/L	10	9/12/2016 4:23:00 PM	R37127
Surr: 1,2-Dichloroethane-d4	101	70-130	P	%Rec	10	9/12/2016 4:23:00 PM	R37127
Surr: 4-Bromofluorobenzene	102	70-130	P	%Rec	10	9/12/2016 4:23:00 PM	R37127
Surr: Dibromofluoromethane	99.9	70-130	P	%Rec	10	9/12/2016 4:23:00 PM	R37127
Surr: Toluene-d8	102	70-130	P	%Rec	10	9/12/2016 4:23:00 PM	R37127

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1609443

Date Reported: 9/14/2016

CLIENT: Biotech Remediation, Inc.

Client Sample ID: TW-42

Project: Thriftway Refinery

Collection Date: 9/8/2016 11:35:00 AM

Lab ID: 1609443-012

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	ND	1.0		µg/L	1	9/12/2016 4:46:00 PM	R37127
Toluene	ND	1.0		µg/L	1	9/12/2016 4:46:00 PM	R37127
Ethylbenzene	ND	1.0		µg/L	1	9/12/2016 4:46:00 PM	R37127
Methyl tert-butyl ether (MTBE)	21	1.0		µg/L	1	9/12/2016 4:46:00 PM	R37127
Xylenes, Total	ND	1.5		µg/L	1	9/12/2016 4:46:00 PM	R37127
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	9/12/2016 4:46:00 PM	R37127
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	9/12/2016 4:46:00 PM	R37127
Surr: Dibromofluoromethane	107	70-130		%Rec	1	9/12/2016 4:46:00 PM	R37127
Surr: Toluene-d8	100	70-130		%Rec	1	9/12/2016 4:46:00 PM	R37127

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: MW-19

Project: Thriftway Refinery

Collection Date: 9/8/2016 11:45:00 AM

Lab ID: 1609443-013

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	ND	1.0		µg/L	1	9/12/2016 5:10:00 PM	R37127
Toluene	ND	1.0		µg/L	1	9/12/2016 5:10:00 PM	R37127
Ethylbenzene	ND	1.0		µg/L	1	9/12/2016 5:10:00 PM	R37127
Methyl tert-butyl ether (MTBE)	88	1.0		µg/L	1	9/12/2016 5:10:00 PM	R37127
Xylenes, Total	ND	1.5		µg/L	1	9/12/2016 5:10:00 PM	R37127
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	9/12/2016 5:10:00 PM	R37127
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	9/12/2016 5:10:00 PM	R37127
Surr: Dibromofluoromethane	104	70-130		%Rec	1	9/12/2016 5:10:00 PM	R37127
Surr: Toluene-d8	100	70-130		%Rec	1	9/12/2016 5:10:00 PM	R37127

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: TW-43

Project: Thriftway Refinery

Collection Date: 9/8/2016 11:55:00 AM

Lab ID: 1609443-014

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	ND	1.0		µg/L	1	9/12/2016 5:33:00 PM	R37127
Toluene	ND	1.0		µg/L	1	9/12/2016 5:33:00 PM	R37127
Ethylbenzene	ND	1.0		µg/L	1	9/12/2016 5:33:00 PM	R37127
Methyl tert-butyl ether (MTBE)	300	10		µg/L	10	9/13/2016 11:38:00 AM	R37159
Xylenes, Total	ND	1.5		µg/L	1	9/12/2016 5:33:00 PM	R37127
Surr: 1,2-Dichloroethane-d4	98.8	70-130		%Rec	1	9/12/2016 5:33:00 PM	R37127
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/12/2016 5:33:00 PM	R37127
Surr: Dibromofluoromethane	104	70-130		%Rec	1	9/12/2016 5:33:00 PM	R37127
Surr: Toluene-d8	101	70-130		%Rec	1	9/12/2016 5:33:00 PM	R37127

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: TW-37

Project: Thriftway Refinery

Collection Date: 9/8/2016 12:10:00 PM

Lab ID: 1609443-015

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	12	1.0		µg/L	1	9/12/2016 5:57:00 PM	R37127
Toluene	ND	1.0		µg/L	1	9/12/2016 5:57:00 PM	R37127
Ethylbenzene	ND	1.0		µg/L	1	9/12/2016 5:57:00 PM	R37127
Methyl tert-butyl ether (MTBE)	11	1.0		µg/L	1	9/12/2016 5:57:00 PM	R37127
Xylenes, Total	ND	1.5		µg/L	1	9/12/2016 5:57:00 PM	R37127
Surr: 1,2-Dichloroethane-d4	92.0	70-130		%Rec	1	9/12/2016 5:57:00 PM	R37127
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/12/2016 5:57:00 PM	R37127
Surr: Dibromofluoromethane	101	70-130		%Rec	1	9/12/2016 5:57:00 PM	R37127
Surr: Toluene-d8	101	70-130		%Rec	1	9/12/2016 5:57:00 PM	R37127

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: TW-36

Project: Thriftway Refinery

Collection Date: 9/8/2016 1:20:00 PM

Lab ID: 1609443-016

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	ND	1.0		µg/L	1	9/12/2016 6:20:00 PM	R37127
Toluene	ND	1.0		µg/L	1	9/12/2016 6:20:00 PM	R37127
Ethylbenzene	ND	1.0		µg/L	1	9/12/2016 6:20:00 PM	R37127
Methyl tert-butyl ether (MTBE)	1.8	1.0		µg/L	1	9/12/2016 6:20:00 PM	R37127
Xylenes, Total	ND	1.5		µg/L	1	9/12/2016 6:20:00 PM	R37127
Surr: 1,2-Dichloroethane-d4	88.4	70-130		%Rec	1	9/12/2016 6:20:00 PM	R37127
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	9/12/2016 6:20:00 PM	R37127
Surr: Dibromofluoromethane	102	70-130		%Rec	1	9/12/2016 6:20:00 PM	R37127
Surr: Toluene-d8	100	70-130		%Rec	1	9/12/2016 6:20:00 PM	R37127

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: TW-34

Project: Thriftway Refinery

Collection Date: 9/8/2016 1:30:00 PM

Lab ID: 1609443-017

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	ND	1.0		µg/L	1	9/13/2016 12:02:00 PM	R37159
Toluene	ND	1.0		µg/L	1	9/13/2016 12:02:00 PM	R37159
Ethylbenzene	ND	1.0		µg/L	1	9/13/2016 12:02:00 PM	R37159
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/13/2016 12:02:00 PM	R37159
Xylenes, Total	ND	1.5		µg/L	1	9/13/2016 12:02:00 PM	R37159
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	9/13/2016 12:02:00 PM	R37159
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	9/13/2016 12:02:00 PM	R37159
Surr: Dibromofluoromethane	98.7	70-130		%Rec	1	9/13/2016 12:02:00 PM	R37159
Surr: Toluene-d8	100	70-130		%Rec	1	9/13/2016 12:02:00 PM	R37159

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: MW-13

Project: Thriftway Refinery

Collection Date: 9/8/2016 1:40:00 PM

Lab ID: 1609443-018

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: BCN	
Benzene	ND	1.0		µg/L	1	9/13/2016 1:35:00 PM	R37159
Toluene	ND	1.0		µg/L	1	9/13/2016 1:35:00 PM	R37159
Ethylbenzene	ND	1.0		µg/L	1	9/13/2016 1:35:00 PM	R37159
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	9/13/2016 1:35:00 PM	R37159
Xylenes, Total	ND	1.5		µg/L	1	9/13/2016 1:35:00 PM	R37159
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	9/13/2016 1:35:00 PM	R37159
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/13/2016 1:35:00 PM	R37159
Surr: Dibromofluoromethane	99.0	70-130		%Rec	1	9/13/2016 1:35:00 PM	R37159
Surr: Toluene-d8	98.9	70-130		%Rec	1	9/13/2016 1:35:00 PM	R37159

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: TW-45

Project: Thriftway Refinery

Collection Date: 9/8/2016 2:00:00 PM

Lab ID: 1609443-019

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	ND	1.0		µg/L	1	9/13/2016 1:58:00 PM	R37159
Toluene	ND	1.0		µg/L	1	9/13/2016 1:58:00 PM	R37159
Ethylbenzene	ND	1.0		µg/L	1	9/13/2016 1:58:00 PM	R37159
Methyl tert-butyl ether (MTBE)	83	1.0		µg/L	1	9/13/2016 1:58:00 PM	R37159
Xylenes, Total	ND	1.5		µg/L	1	9/13/2016 1:58:00 PM	R37159
Surr: 1,2-Dichloroethane-d4	99.2	70-130		%Rec	1	9/13/2016 1:58:00 PM	R37159
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	9/13/2016 1:58:00 PM	R37159
Surr: Dibromofluoromethane	96.0	70-130		%Rec	1	9/13/2016 1:58:00 PM	R37159
Surr: Toluene-d8	99.7	70-130		%Rec	1	9/13/2016 1:58:00 PM	R37159

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: TW-46

Project: Thriftway Refinery

Collection Date: 9/8/2016 2:05:00 PM

Lab ID: 1609443-020

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	ND	1.0		µg/L	1	9/13/2016 2:22:00 PM	R37159
Toluene	ND	1.0		µg/L	1	9/13/2016 2:22:00 PM	R37159
Ethylbenzene	ND	1.0		µg/L	1	9/13/2016 2:22:00 PM	R37159
Methyl tert-butyl ether (MTBE)	73	1.0		µg/L	1	9/13/2016 2:22:00 PM	R37159
Xylenes, Total	ND	1.5		µg/L	1	9/13/2016 2:22:00 PM	R37159
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	9/13/2016 2:22:00 PM	R37159
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/13/2016 2:22:00 PM	R37159
Surr: Dibromofluoromethane	97.6	70-130		%Rec	1	9/13/2016 2:22:00 PM	R37159
Surr: Toluene-d8	98.5	70-130		%Rec	1	9/13/2016 2:22:00 PM	R37159

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1609443

Date Reported: 9/14/2016

CLIENT: Biotech Remediation, Inc.

Client Sample ID: MW-20

Project: Thriftway Refinery

Collection Date: 9/8/2016 2:15:00 PM

Lab ID: 1609443-021

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST						Analyst: BCN	
Benzene	ND	1.0		µg/L	1	9/13/2016 2:45:00 PM	R37159
Toluene	ND	1.0		µg/L	1	9/13/2016 2:45:00 PM	R37159
Ethylbenzene	ND	1.0		µg/L	1	9/13/2016 2:45:00 PM	R37159
Methyl tert-butyl ether (MTBE)	55	1.0		µg/L	1	9/13/2016 2:45:00 PM	R37159
Xylenes, Total	ND	1.5		µg/L	1	9/13/2016 2:45:00 PM	R37159
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	9/13/2016 2:45:00 PM	R37159
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	9/13/2016 2:45:00 PM	R37159
Surr: Dibromofluoromethane	98.7	70-130		%Rec	1	9/13/2016 2:45:00 PM	R37159
Surr: Toluene-d8	98.8	70-130		%Rec	1	9/13/2016 2:45:00 PM	R37159

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: TW-47

Project: Thriftway Refinery

Collection Date: 9/8/2016 2:35:00 PM

Lab ID: 1609443-022

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	ND	1.0		µg/L	1	9/13/2016 3:09:00 PM	R37159
Toluene	ND	1.0		µg/L	1	9/13/2016 3:09:00 PM	R37159
Ethylbenzene	ND	1.0		µg/L	1	9/13/2016 3:09:00 PM	R37159
Methyl tert-butyl ether (MTBE)	3.7	1.0		µg/L	1	9/13/2016 3:09:00 PM	R37159
Xylenes, Total	ND	1.5		µg/L	1	9/13/2016 3:09:00 PM	R37159
Surr: 1,2-Dichloroethane-d4	104	70-130		%Rec	1	9/13/2016 3:09:00 PM	R37159
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/13/2016 3:09:00 PM	R37159
Surr: Dibromofluoromethane	101	70-130		%Rec	1	9/13/2016 3:09:00 PM	R37159
Surr: Toluene-d8	99.2	70-130		%Rec	1	9/13/2016 3:09:00 PM	R37159

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: MW-21

Project: Thriftway Refinery

Collection Date: 9/8/2016 2:45:00 PM

Lab ID: 1609443-023

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	ND	1.0		µg/L	1	9/13/2016 3:32:00 PM	R37159
Toluene	ND	1.0		µg/L	1	9/13/2016 3:32:00 PM	R37159
Ethylbenzene	ND	1.0		µg/L	1	9/13/2016 3:32:00 PM	R37159
Methyl tert-butyl ether (MTBE)	39	1.0		µg/L	1	9/13/2016 3:32:00 PM	R37159
Xylenes, Total	ND	1.5		µg/L	1	9/13/2016 3:32:00 PM	R37159
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	9/13/2016 3:32:00 PM	R37159
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/13/2016 3:32:00 PM	R37159
Surr: Dibromofluoromethane	99.6	70-130		%Rec	1	9/13/2016 3:32:00 PM	R37159
Surr: Toluene-d8	98.1	70-130		%Rec	1	9/13/2016 3:32:00 PM	R37159

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: TW-51

Project: Thriftway Refinery

Collection Date: 9/8/2016 3:00:00 PM

Lab ID: 1609443-024

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	ND	1.0		µg/L	1	9/13/2016 3:56:00 PM	R37159
Toluene	ND	1.0		µg/L	1	9/13/2016 3:56:00 PM	R37159
Ethylbenzene	ND	1.0		µg/L	1	9/13/2016 3:56:00 PM	R37159
Methyl tert-butyl ether (MTBE)	220	10		µg/L	10	9/14/2016 10:03:00 AM	A37163
Xylenes, Total	ND	1.5		µg/L	1	9/13/2016 3:56:00 PM	R37159
Surr: 1,2-Dichloroethane-d4	98.3	70-130		%Rec	1	9/13/2016 3:56:00 PM	R37159
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/13/2016 3:56:00 PM	R37159
Surr: Dibromofluoromethane	95.3	70-130		%Rec	1	9/13/2016 3:56:00 PM	R37159
Surr: Toluene-d8	100	70-130		%Rec	1	9/13/2016 3:56:00 PM	R37159

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: TW-52

Project: Thriftway Refinery

Collection Date: 9/8/2016 3:10:00 PM

Lab ID: 1609443-025

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	ND	1.0		µg/L	1	9/13/2016 4:19:00 PM	R37159
Toluene	ND	1.0		µg/L	1	9/13/2016 4:19:00 PM	R37159
Ethylbenzene	ND	1.0		µg/L	1	9/13/2016 4:19:00 PM	R37159
Methyl tert-butyl ether (MTBE)	78	1.0		µg/L	1	9/13/2016 4:19:00 PM	R37159
Xylenes, Total	ND	1.5		µg/L	1	9/13/2016 4:19:00 PM	R37159
Surr: 1,2-Dichloroethane-d4	102	70-130		%Rec	1	9/13/2016 4:19:00 PM	R37159
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	9/13/2016 4:19:00 PM	R37159
Surr: Dibromofluoromethane	98.1	70-130		%Rec	1	9/13/2016 4:19:00 PM	R37159
Surr: Toluene-d8	100	70-130		%Rec	1	9/13/2016 4:19:00 PM	R37159

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1609443**

Date Reported: **9/14/2016**

CLIENT: Biotech Remediation, Inc.

Client Sample ID: TW-54

Project: Thriftway Refinery

Collection Date: 9/8/2016 3:20:00 PM

Lab ID: 1609443-026

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	ND	1.0		µg/L	1	9/12/2016 3:36:00 PM	R37127
Toluene	ND	1.0		µg/L	1	9/12/2016 3:36:00 PM	R37127
Ethylbenzene	ND	1.0		µg/L	1	9/12/2016 3:36:00 PM	R37127
Methyl tert-butyl ether (MTBE)	31	1.0		µg/L	1	9/12/2016 3:36:00 PM	R37127
Xylenes, Total	ND	1.5		µg/L	1	9/12/2016 3:36:00 PM	R37127
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	9/12/2016 3:36:00 PM	R37127
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/12/2016 3:36:00 PM	R37127
Surr: Dibromofluoromethane	107	70-130		%Rec	1	9/12/2016 3:36:00 PM	R37127
Surr: Toluene-d8	100	70-130		%Rec	1	9/12/2016 3:36:00 PM	R37127

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1609443

Date Reported: 9/14/2016

CLIENT: Biotech Remediation, Inc.

Client Sample ID: TW-53

Project: Thriftway Refinery

Collection Date: 9/8/2016 3:30:00 PM

Lab ID: 1609443-027

Matrix: AQUEOUS

Received Date: 9/9/2016 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST							Analyst: BCN
Benzene	ND	1.0		µg/L	1	9/13/2016 4:42:00 PM	R37159
Toluene	ND	1.0		µg/L	1	9/13/2016 4:42:00 PM	R37159
Ethylbenzene	ND	1.0		µg/L	1	9/13/2016 4:42:00 PM	R37159
Methyl tert-butyl ether (MTBE)	10	1.0		µg/L	1	9/13/2016 4:42:00 PM	R37159
Xylenes, Total	ND	1.5		µg/L	1	9/13/2016 4:42:00 PM	R37159
Surr: 1,2-Dichloroethane-d4	100	70-130		%Rec	1	9/13/2016 4:42:00 PM	R37159
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	9/13/2016 4:42:00 PM	R37159
Surr: Dibromofluoromethane	98.5	70-130		%Rec	1	9/13/2016 4:42:00 PM	R37159
Surr: Toluene-d8	99.7	70-130		%Rec	1	9/13/2016 4:42:00 PM	R37159

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609443

14-Sep-16

Client: Biotech Remediation, Inc.

Project: Thriftway Refinery

Sample ID 100NG LCS	SampType: LCS		TestCode: EPA Method 8260: Volatiles Short List							
Client ID: LCSW	Batch ID: R37127		RunNo: 37127							
Prep Date:	Analysis Date: 9/12/2016		SeqNo: 1151357		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	92.5	70	130			
Toluene	19	1.0	20.00	0	96.6	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	9.8		10.00		98.0	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID rb	SampType: MBLK		TestCode: EPA Method 8260: Volatiles Short List							
Client ID: PBW	Batch ID: R37127		RunNo: 37127							
Prep Date:	Analysis Date: 9/12/2016		SeqNo: 1151358		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		99.6	70	130			
Surr: Toluene-d8	10		10.00		99.5	70	130			

Sample ID 1609443-001ams	SampType: MS		TestCode: EPA Method 8260: Volatiles Short List							
Client ID: TW-11	Batch ID: R37127		RunNo: 37127							
Prep Date:	Analysis Date: 9/12/2016		SeqNo: 1151359		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	94.6	70	130			
Toluene	19	1.0	20.00	0	95.3	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		104	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.9		10.00		99.1	70	130			

Sample ID 1609443-001amsd	SampType: MSD		TestCode: EPA Method 8260: Volatiles Short List							
Client ID: TW-11	Batch ID: R37127		RunNo: 37127							
Prep Date:	Analysis Date: 9/12/2016		SeqNo: 1151360		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	92.2	70	130	2.51	20	

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609443

14-Sep-16

Client: Biotech Remediation, Inc.

Project: Thriftway Refinery

Sample ID 1609443-001amsd	SampType: MSD		TestCode: EPA Method 8260: Volatiles Short List							
Client ID: TW-11	Batch ID: R37127		RunNo: 37127							
Prep Date:	Analysis Date: 9/12/2016		SeqNo: 1151360		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	18	1.0	20.00	0	91.9	70	130	3.59	20	
Surr: 1,2-Dichloroethane-d4	11		10.00		106	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130	0	0	
Surr: Dibromofluoromethane	10		10.00		101	70	130	0	0	
Surr: Toluene-d8	10		10.00		100	70	130	0	0	

Sample ID 100NG LCS	SampType: LCS		TestCode: EPA Method 8260: Volatiles Short List							
Client ID: LCSW	Batch ID: R37159		RunNo: 37159							
Prep Date:	Analysis Date: 9/13/2016		SeqNo: 1153102		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	91.6	70	130			
Toluene	19	1.0	20.00	0	94.0	70	130			
Surr: 1,2-Dichloroethane-d4	10		10.00		99.6	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	9.9		10.00		98.9	70	130			
Surr: Toluene-d8	10		10.00		100	70	130			

Sample ID vsb deli	SampType: MBLK		TestCode: EPA Method 8260: Volatiles Short List							
Client ID: PBW	Batch ID: R37159		RunNo: 37159							
Prep Date:	Analysis Date: 9/13/2016		SeqNo: 1153104		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Methyl tert-butyl ether (MTBE)	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130			
Surr: Dibromofluoromethane	9.9		10.00		99.0	70	130			
Surr: Toluene-d8	10		10.00		99.6	70	130			

Sample ID 1609443-017ams	SampType: MS		TestCode: EPA Method 8260: Volatiles Short List							
Client ID: TW-34	Batch ID: R37159		RunNo: 37159							
Prep Date:	Analysis Date: 9/13/2016		SeqNo: 1153111		Units: µg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	96.8	70	130			
Toluene	20	1.0	20.00	0	98.3	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Value above quantitation range
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1609443

14-Sep-16

Client: Biotech Remediation, Inc.

Project: Thriftway Refinery

Sample ID 1609443-017ams	SampType: MS			TestCode: EPA Method 8260: Volatiles Short List						
Client ID: TW-34	Batch ID: R37159			RunNo: 37159						
Prep Date:	Analysis Date: 9/13/2016			SeqNo: 1153111		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	10		10.00		103	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		101	70	130			
Surr: Dibromofluoromethane	10		10.00		101	70	130			
Surr: Toluene-d8	9.9		10.00		99.1	70	130			

Sample ID 1609443-017amsd	SampType: MSD			TestCode: EPA Method 8260: Volatiles Short List						
Client ID: TW-34	Batch ID: R37159			RunNo: 37159						
Prep Date:	Analysis Date: 9/13/2016			SeqNo: 1153112		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	18	1.0	20.00	0	92.1	70	130	4.96	20	
Toluene	19	1.0	20.00	0	94.0	70	130	4.48	20	
Surr: 1,2-Dichloroethane-d4	10		10.00		100	70	130	0	0	
Surr: 4-Bromofluorobenzene	10		10.00		102	70	130	0	0	
Surr: Dibromofluoromethane	10		10.00		99.6	70	130	0	0	
Surr: Toluene-d8	9.9		10.00		98.7	70	130	0	0	

Sample ID 100NG LCS	SampType: LCS			TestCode: EPA Method 8260: Volatiles Short List						
Client ID: LCSW	Batch ID: A37163			RunNo: 37163						
Prep Date:	Analysis Date: 9/14/2016			SeqNo: 1153325		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	9.5		10.00		94.8	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		103	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.8	70	130			
Surr: Toluene-d8	9.9		10.00		98.5	70	130			

Sample ID rb	SampType: MBLK			TestCode: EPA Method 8260: Volatiles Short List						
Client ID: PBW	Batch ID: A37163			RunNo: 37163						
Prep Date:	Analysis Date: 9/14/2016			SeqNo: 1153326		Units: µg/L				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	1.0								
Surr: 1,2-Dichloroethane-d4	9.6		10.00		96.0	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.6	70	130			
Surr: Toluene-d8	10		10.00		99.9	70	130			

Qualifiers:

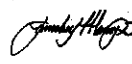
- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

Sample Log-In Check List

Client Name: Biotech Remediation Inc

Work Order Number: 1609443

RcptNo: 1

Received by/date:	AG 09/09/16		
Logged By:	Lindsay Mangin	9/9/2016 7:30:00 AM	
Completed By:	Lindsay Mangin	9/9/2016 9:58:07 AM	
Reviewed By:	IO	09/09/16	

Chain of Custody

- Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
- Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
- How was the sample delivered? Courier

Log In

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

of preserved
bottles checked
for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

- Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

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

- Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.9	Good	Yes			

Chain-of-Custody Record

Client: BioTech Remediation

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Therapy Refinery

Project #: 810

Shipping Address: 501 Airport Dr.

Washington NM.

Phone #:

Fax #:

QC Package:

Standard ☐ Level 4 (Full Validation)

Creditation

NELAP ☐ Other

EDD (Type)

Project Manager:

Ross Kemmer

Sampler: CK

On Ice: ☒ Yes ☐ No

Sample Temperature: 20

Date

Time

Matrix

Sample Request ID

Container Type and #

Preservative Type

HEAL No.

1609443

09:00

09:10

09:30

09:50

09:40

10:05

10:20

10:30

10:45

11:00

11:10

11:25

Time

Matrix

Sample Request ID

Container Type and #

Preservative Type

HEAL No.

1609443

09:00

09:10

09:30

09:50

09:40

10:05

10:20

10:30

10:45

11:00

11:10

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02:10

02:25

02:40

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03:55

Chain-of-Custody Record

Client: Biotech Remediation

Billing Address: 501 Airport Dr.

Farmington, NM.

Phone #:

Fax #:

QC Package:

Standard ☐ Level 4 (Full Validation)

Creditation

NELAP ☐ Other

EDD (Type)

Sample Request ID

Date

Time

Matrix

Sample Request ID

Container Type and #

Preservative Type

HEAL No.

On Ice: ☒ Yes ☐ No

Sample Temperature: 22

Sampler:

Project Manager:

Project #:

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Sample Request ID	Matrix	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMBs (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
11-16	11:35	H ₂ O	TW-42	40mm vial	4cc	-012										
	11:45		MW-19			-013										
	11:55		TW-43			-014										
	12:10		TW-37			-015										
	13:20		TW-33			-016										
	13:30		TW-34			-017										
	13:40		MW-13			-018										
	14:00		TW-45			-019										
	14:05		TW-46			-020										
	14:15		MW-20			-021										
	14:35		TW-47			-022										

Time	Relinquished by	Received by	Date	Time	Remarks
11/6 2010	<u>[Signature]</u>	<u>Art Waite</u>	9/16	2010	
11/6 2100	<u>[Signature]</u>	<u>Art Waite</u>	09/08/16	0730	

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

Chain-of-Custody Record

Client: Biotech Remediation Inc

Shipping Address: 501 Airport Dr. Ste 250

Farmington, NM.

Phone #: _____

Fax #: _____

QC Package: ☐ Level 4 (Full Validation)

Standard ☐ Other _____

Preparation _____

NELAP _____

EDD (Type) _____

On Ice: ☒ Yes ☐ No

Sample Temperature: 20

Container Type and #

Preservative Type

HEAL No.

3/16 14:45 H₂O MW-21

15:00 TW-51

15:10 TW-52

15:20 TW-54

15:30 TW-53

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

THEFTWAY REFINERY

Project #:

810

Project Manager:

RK

Sampler:

RK

Analysis Request

BTEX + MTBE + TPH (Gas only)

BTEX + MTBE + TPH (8021)

TPH 8015B (GRO / DRO / MRO)

TPH (Method 418.1)

EDB (Method 504.1)

PAH's (8310 or 8270 SIMS)

RCRA 8 Metals

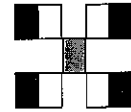
Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles (Y or N)



**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Remarks:

Received by: Mr. Walter Date: 9/8/16 Time: 2010

Received by: Mr. Walter Date: 07/09/16 Time: 0730