

Second Quarter 2015 Groundwater Monitoring Summary Report

Hobbs Booster Station
Lea County, New Mexico
AP-114

Prepared for:



370 17th St., Suite 2500
Denver, CO 80202

Prepared by:



6899 Pecos Street, Unit C
Denver, Colorado 80221

August 10, 2015

Table of Contents

1. Introduction	1
2. Site Location and Background.....	1
3. Groundwater Monitoring.....	1
3.1 Groundwater and LNAPL Elevation Monitoring.....	1
3.2 Groundwater Quality Monitoring.....	2
3.3 Data Quality Assurance / Quality Control.....	3
4. Remediation System Performance	3
4.1 Remediation System Layout	4
4.2 Vacuum-Enhanced Extraction Observations.....	4
4.3 LNAPL Recovery System Performance Evaluation	4
4.4 Air Sparge Performance Evaluation	6
5. Conclusions	6
6. Recommendations	7

Tables

1	Second Quarter 2015 Summary of Groundwater Elevation Data
2	Second Quarter 2015 Summary of BTEX Concentrations in Groundwater

Figures

1	Site Location Map
2	Site Map With Monitoring Well Locations
3	Groundwater Elevation Contour Map – June 3, 2015
4	Analytical Results Map – June 3, 2015

Appendices

A	Historic Analytical Results – BTEX Concentrations in Groundwater
B	Laboratory Analytical Results - ALS Job #: HS15060317

1. Introduction

This report summarizes the remediation system activities and results of groundwater monitoring activities conducted during the second quarter 2015, at the Hobbs Booster Station (Site) in Lea County, New Mexico (Figure 1). Tasman Geosciences (Tasman) performed these activities on behalf of DCP Midstream, LP (DCP). The groundwater monitoring activities described herein were conducted to monitor the presence of light non-aqueous phase liquid (LNAPL) hydrocarbons, measure groundwater levels, obtain groundwater samples for laboratory analysis, and evaluate groundwater flow and quality conditions. Field data and laboratory analytical results from field efforts conducted on June 3, 2015 were used to develop a groundwater elevation contour map and an analytical results map to evaluate current conditions at the Site.

2. Site Location and Background

The Site is located in New Mexico Oil Conservation Division (OCD) designated Units C and D, Section 4, Township 19 South, Range 38 East (Figure 1). The facility coordinates are approximately 32.414 degrees north and 103.092 degrees west. This facility is no longer used as an active gas compression facility; currently the Site is primarily used as a DCP field office and as an overhaul shop. All ancillary equipment and buildings associated with the former Booster Station have been decommissioned and/or demolished.

The Site currently has 30 groundwater monitoring wells, which are illustrated in Figure 2. Twenty-seven of the wells are located on the Site property while the other three wells (MW-23, MW-24, and MW-25) are located to the southeast of the property boundary on land currently owned by Occidental Permian.

An LNAPL recovery and soil vapor extraction (SVE) system are present at the Site. There are 28 extraction wells (Figure 2) located on-Site including MW-4, MW-8, MW-11, and MW-13 which were previously converted from monitoring wells due to historically high levels of LNAPL. Additionally, the Site operates a groundwater air sparge (AS) curtain that was installed along the south-central Site boundary and includes 21 AS injection wells connected in series (Figure 2). LNAPL, AS, and SVE system operation and performance are described in Section 4.

3. Groundwater Monitoring

This section describes the field groundwater monitoring activities performed during the second quarter 2015 monitoring event on June 3, 2015. Monitoring activities included Site-wide groundwater gauging, LNAPL measurements, groundwater purging and sampling, and subsequent packaging and shipping of the samples for laboratory analysis. Figure 2 illustrates the groundwater monitoring network utilized to perform these activities at the Site.

3.1 Groundwater and LNAPL Elevation Monitoring

Groundwater and LNAPL levels were measured in order to evaluate hydraulic characteristics and provide information regarding fluctuations in groundwater and LNAPL elevations at the Site. During the second

quarter 2015 monitoring event, groundwater and LNAPL levels, where present, were measured at 28 monitoring well locations. LNAPL removal was conducted at monitoring well MW-12 during the Second Quarter 2015 and therefore, LNAPL and groundwater measurements were not collected during the groundwater monitoring event at that well. Those activities were performed during the remediation system operations and maintenance (O&M) event and are discussed in Section 4.3.

The monitoring wells were gauged on the north side of the well casing to the nearest 0.01-foot using an oil-water interface probe (IP). Groundwater levels were subsequently converted to elevations (feet above mean sea level [AMSL]).

Groundwater and LNAPL elevations collected during the reporting period as well as historic elevations are presented in Table 1. A second quarter 2015 groundwater elevation map, included as Figure 3, indicates that groundwater flow at the Site trends to the east. Groundwater elevations ranges, average elevation change from the previous monitoring event, and the calculated hydraulic gradient at the Site are summarized in the table below.

Summary of Measured Hydraulic Parameters

	Second Quarter 2015 (6/3/15)
Maximum Elevation (Well ID)	3674.83 (MW-6)
Minimum Elevation (Well ID)	3565.83 (MW-20)
Average Change from Previous Monitoring Event – All Wells	0.15 foot
Hydraulic Gradient (ft/ft) / (Well IDs)	0.0045 (MW-6 to MW-20)

LNAPL was detected in 12 of the measured groundwater monitoring wells with thicknesses ranging between 0.03 feet in MW-18 to 5.53 feet in MW-9. Calculated groundwater elevation data in these wells were corrected to account for LNAPL thickness.

3.2 Groundwater Quality Monitoring

Subsequent to recording groundwater level measurements, groundwater samples were collected from select monitoring wells that did not contain measurable LNAPL. A minimum of three well casing volumes of groundwater (calculated from total depth of the well and groundwater level measurements) was then purged from the subject well prior to the collection of groundwater samples. Groundwater samples were collected using dedicated polyethylene bailers, placed in clean laboratory supplied containers, packed in an ice-filled cooler and maintained at approximately four degrees Celsius ($^{\circ}\text{C}$) for transportation to the laboratory. Groundwater samples were then shipped under chain-of-custody procedures to ALS Laboratories (ALS) in Houston, Texas for analysis.

Second quarter 2015 water quality samples were collected from 11 monitoring wells on June 3, 2015. Additional monitoring wells were not sampled during the second quarter 2015 event due to the presence of LNAPL. These wells are reflected on Table 2.

Water quality samples were submitted to ALS for benzene, toluene, ethylbenzene, and total xylenes (BTEX) analyses by United States Environmental Protection Agency (USEPA) Method 8260B.

Table 2 summarizes BTEX concentrations in groundwater samples collected during the second quarter 2015. Analytical results are also displayed in Figure 4. Historic analytical results, up to and including the second quarter 2015 event, are contained in Appendix A and the laboratory analytical report is included in Appendix B.

Analytical results indicate that BTEX concentrations were below laboratory detection limits in 8 of the total 11 sampled wells. Benzene detection above the New Mexico Water Quality Control Commission (NMWQCC) groundwater standard of 0.01 milligram per liter (mg/L) was noted at MW-22 with a detected concentration of 0.110 mg/L (as displayed on Figure 4). Additionally, benzene was detected at MW-14 with a concentration of 0.0077 mg/L which is far below the historic values observed at that well. However, the duplicate sample collected from MW-14 was above the standard for benzene at a detected concentration of 0.061 mg/L which matches historical concentrations.

3.3 Data Quality Assurance/ Quality Control

A trip blank and field duplicate sample (MW-14) were collected during the sampling event. The data were reviewed for compliance with the analytical method and the associated quality assurance/quality control (QA/QC) procedures. All samples were analyzed using the correct analytical methods and within the correct holding times. Chain of custody forms were in order and properly executed and indicate that samples were received at the proper temperature with no headspace. All data were reported using the correct method number and reporting units. QA/QC items of note for the second quarter 2015 include the following:

- Target analytes were not detected in the trip blank, and;
- MW-14 and the associated duplicate sample exhibited benzene concentrations of 0.0077 mg/L and 0.061 mg/L respectively. The RPD for the samples from MW-14 is 155. Due to the poor correlation between these samples, the lab sample for MW-14-060315 (HS15060317) was re-analyzed and the result confirmed the original reported value of 0.0077 mg/L.

The overall QA/QC assessment, based on the data review, indicates that overall data precision and accuracy are acceptable.

4. Remediation System Performance

This section includes a description of the active remediation system at the Site along with observations and modifications to the system components during the second quarter 2015. An evaluation of system performance is also provided based on collected information.

4.1 Remediation System Layout

The array of remediation wells and other infrastructure at the Site is referred to herein as the System. The System consists of 28 extraction wells, 22 Air Sparge (AS) wells, two (2) Soil Vapor Extraction (SVE) blowers, an AS blower, and ancillary piping and conveyance lines, as displayed on Figure 2.

The extraction wells, which are currently used for LNAPL recovery, are aligned along several north-south “legs.” The AS wells are aligned east-west along the southern portion of the property to create an approximately 870-foot long “sparge curtain” intended to volatilize dissolved-phase constituents that enter the AS treatment zone.

Overall, the System covers an approximate 1,000 foot (east-west) by 800 foot (north-south) area, or approximately 18-acres.

4.2 Vacuum-Enhanced Extraction Observations

As discussed within the third quarter 2014 monitoring report, vacuum was discontinued at the “Leg 3” extraction wells due to Spill Buster malfunctions. SVE was not applied to any of the extraction wells during the second quarter 2015.

4.3 LNAPL Recovery System Performance Evaluation

The LNAPL Recovery portion of the System includes 28 Magnum Spill Buster units (manufactured by Clean Earth Technology) which are installed at wells within the extraction well network. The full scale system has been operational since May 1, 2013. The recovery units were integrated into the existing LNAPL infrastructure which includes conveyance lines and a 100 barrel steel holding tank where recovered LNAPL is accumulated.

Specific measurements and observations associated with the LNAPL Recovery System include:

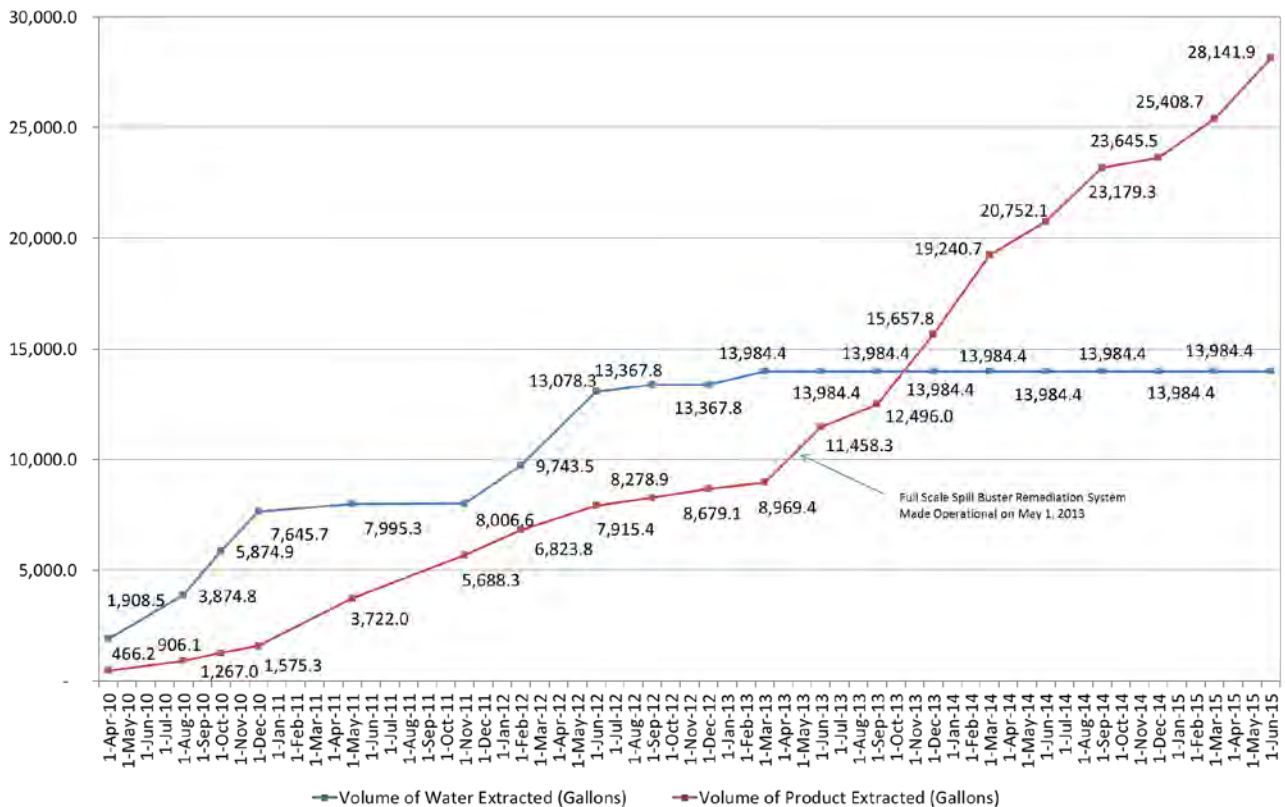
- A total volume of 2,733.2 gallons of LNAPL were recovered from the extraction wells during the second quarter 2015 (measured between March 27 and June 24, 2015).
- Subsequent to Spill Buster Installation, approximately **19,171 gallons** of LNAPL have been removed over **25 months** (May 2013 through June 2015) exhibiting extraction rates above those achieved with previous recovery efforts. Product accumulation volumes for specific time periods are summarized in the Liquid Recovery Summary table below.

Incremental and cumulative recovery volumes from April 2010 through March 27, 2015 are summarized in the table and graph below.

Liquid Recovery Summary

Date	Volume of Water Extracted (Gallons)	Total Water (Gallons)	Volume of Product Extracted (Gallons)	Cumulative LNAPL Recovery (Gallons)
26-Apr-10	1,908.5	1,908.5	466.2	466.2
5-Aug-10	1,966.3	3,874.8	439.9	906.1
18-Oct-10	2,000.1	5,874.9	360.9	1,267.0
20-Dec-10	1,770.8	7,645.7	308.3	1,575.3
23-May-11	349.6	7,995.3	2,146.7	3,722.0
21-Nov-11	11.3	8,006.6	1,966.3	5,688.3
20-Feb-12	1,736.9	9,743.5	853.4	6,823.8
28-Jun-12	3,334.8	13,078.3	473.7	7,915.4
25-Sep-12	289.5	13,367.8	363.5	8,278.9
5-Dec-12	-	13,367.8	400.2	8,679.1
25-Mar-13	616.6	13,984.4	290.3	8,969.4
24-Jun-13	-	13,984.4	2,488.9	11,458.3
25-Sep-13	-	13,984.4	1,037.7	12,496.0
26-Dec-13	-	13,984.4	3,161.8	15,657.8
21-Mar-14	-	13,984.4	3,582.9	19,240.7
27-Jun-14	-	13,984.4	1,511.4	20,752.1
22-Sep-14	-	13,984.4	2,427.2	23,179.3
26-Dec-14	-	13,984.4	466.2	23,645.5
27-Mar-15	-	13,984.4	1,763.2	25,408.7
24-Jun-15	-	13,984.4	2,733.2	28,141.9

Totalized Recovered Groundwater and LNAPL Volumes Hobbs Booster Station



In addition to the above remediation efforts, a single solar-powered Spill Buster unit (and adjacent 500-gallon poly holding tank) was operated at monitoring well MW-12 during the second quarter 2015. Operation at MW-12 was initiated on December 18, 2013 and during the second quarter 2015 (March 27 through June 24, 2015) the Spill Buster at MW-12 removed **177 gallons** of LNAPL.

4.4 Air Sparge Performance Evaluation

The AS system has continued to operate on a 24-hour per day basis with minor down time due to routine scheduled equipment maintenance. The primary evaluation criteria for AS performance is tied to the dissolved phase hydrocarbon concentrations present in groundwater downgradient of the AS well alignment. Monitoring wells MW-14, MW-15, MW-23, MW-24, and MW-25, located immediately downgradient from the sparge curtain, provide ideal monitoring locations for observing the effects of the AS system on impacted groundwater as it passes through the treatment zone. On the east end of the AS system, monitoring wells MW-14 and MW-23 exhibited low dissolved benzene concentrations during the second quarter 2015 monitoring event but are below the NMWQCC Groundwater Standards in the vicinity of MW-23. Monitoring wells MW-24 and MW-25 which are located immediately downgradient to MW-14 and MW-23, continue to have no detectable concentrations of benzene or other dissolved petroleum hydrocarbons. On the west end of the AS system, lab data indicates that dissolved phase hydrocarbon impacts are below the laboratory detection limits.

5. Conclusions

This section of the report presents conclusions from the findings of second quarter 2015 groundwater monitoring and remediation system O&M activities.

- LNAPL recovery rates have continued to remain at increased levels following installation of the Spill Buster units and incidental groundwater recovery has been eliminated.
- The AS portion of the System appears to continue to prevent the migration of LNAPL and dissolved-phase impacts across the treatment zone.
- Based on the duplicate sample that was collected from MW-14 during the second quarter 2015, groundwater at that location continues to exhibit dissolved phase detections of benzene above the NMWQCC groundwater standards for benzene. However, adjacent monitoring points have not indicated continued migration of these impacts, thereby suggesting a relatively stable dissolved-phase petroleum hydrocarbon plume.
- Monitoring points along the eastern Site boundary, MW-20 and MW-21, remain below laboratory detection levels; however, MW-22 exhibited a benzene concentration (0.110 mg/l) that is higher than the NMWQCC standard of 0.01 mg/L. Based on this information and results that have been observed during previous quarters, it appears that a slight migrating trend of the dissolved phase benzene plume may be occurring in the vicinity of MW-22.

6. Recommendations

Based on evaluation of current and historic data, the following recommendations for ongoing Site monitoring and remediation efforts have been developed:

- Continue quarterly and annual groundwater monitoring and sampling activities to monitor dissolved phase BTEX concentration and LNAPL trends.
- Continue operation, monitoring, and maintenance of the Spill Buster LNAPL extraction system.
- Continue to monitor the LNAPL extraction rate at MW-12. The solar unit may be relocated based on evaluation of extraction rate and LNAPL thickness at that location.
- Continue operation, monitoring, and maintenance of the air sparge system.
- Due to the continued increasing trend of dissolved phase benzene concentrations at monitoring well MW-22, initiate air sparge activities at that well utilizing compressed air from the air compressor located at the northern LNAPL/SVE Recovery System Equipment Platform (Figure 2) that was previously used to operate the former pneumatic LNAPL recovery pumps. Above ground conveyance piping will be installed from the air compressor to the monitoring well and air sparge remediation will be implemented utilizing a 1-inch polyvinylchloride (PVC) downhole “stinger” pipe within the 2-inch monitoring well. Compressed air will be delivered through the conveyance pipe and “stinger” and a well packer will be utilized with the downhole stinger pipe to facilitate a radius of influence of sparge air into the surrounding formation. The air sparge activities will be operated on a timed on/off cycle to facilitate a pulsing air sparge treatment approach. Additionally, air sparge activities will be discontinued at least one week prior, at a minimum, to groundwater sampling activities to allow the formation to return to normal conditions prior to sampling the well.

Tables

TABLE 1
SECOND QUARTER 2015
SUMMARY OF GROUNDWATER ELEVATION DATA
HOBBS BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (*) (feet amsl)	Change in Groundwater Elevation Since Previous Event(1) (feet)
MW-1	06/03/2014	57.49	53.24	4.25	NM	3626.06	3571.76	-0.39
MW-1	09/24/2014	57.30	53.30	4.00	NM	3626.06	3571.76	0.00
MW-1	12/02/2014	56.40	52.91	3.49	NM	3626.06	3572.28	0.52
MW-1	02/25/2015	57.06	53.28	3.78	NM	3626.06	3571.84	-0.44
MW-1	06/03/2015	57.05	53.21	3.84	NM	3626.06	3571.89	0.05
MW-2	06/25/2014	51.50	48.38	3.12	NM	3623.14	3573.98	-0.53
MW-2	09/24/2014	51.05	48.15	2.90	NM	3623.14	3574.27	0.28
MW-2	12/02/2014	50.30	47.51	2.79	NM	3623.14	3574.93	0.67
MW-2	02/25/2015	51.02	48.13	2.89	NM	3623.14	3574.29	-0.64
MW-2	06/03/2015	50.64	47.97	2.67	NM	3623.14	3574.50	0.22
MW-3	06/03/2014	49.40			55.80	3623.01	3573.61	-0.45
MW-3	09/22/2014	49.09			55.75	3623.01	3573.92	0.31
MW-3	12/03/2014	48.48			NM	3623.01	3574.53	0.61
MW-3	02/25/2015	49.13			NM	3623.01	3573.88	-0.65
MW-3	06/03/2015	48.82			55.72	3623.01	3574.19	0.31
MW-5	06/03/2014	56.58			59.26	3629.16	3572.58	-0.39
MW-5	09/22/2014	56.30			59.50	3629.16	3572.86	0.28
MW-5	12/03/2014	56.13			59.50	3629.16	3573.03	0.17
MW-5	02/25/2015	56.57			59.50	3629.16	3572.59	-0.44
MW-5	06/03/2015	56.52			59.30	3629.16	3572.64	0.05
MW-6	06/03/2014	52.25			56.50	3626.93	3574.68	-0.41
MW-6	09/22/2014	52.32			56.46	3626.93	3574.61	-0.07
MW-6	12/03/2014	51.74			NM	3626.93	3575.19	0.58
MW-6	02/25/2015	52.21			NM	3626.93	3574.72	-0.47
MW-6	06/03/2015	52.10			56.42	3626.93	3574.83	0.11
MW-7	06/03/2014	DRY			44.42	3621.40	DRY	NM
MW-7	09/22/2014	DRY			45.28	3621.40	DRY	NM
MW-7	12/03/2014	DRY			45.26	3621.40	DRY	NM
MW-7	02/25/2015	DRY			45.26	3621.40	DRY	NM
MW-7	06/03/2015	DRY			45.28	3621.40	NA	NA
MW-9	06/03/2014	60.69	54.78	5.91	NM	3625.21	3568.95	-0.42
MW-9	09/24/2014	60.54	54.91	5.63	NM	3625.21	3568.89	-0.06
MW-9	12/02/2014	59.75	54.50	5.25	NM	3625.21	3569.40	0.51
MW-9	02/25/2015	60.53	54.83	5.70	NM	3625.21	3568.96	-0.44
MW-9	06/03/2015	60.31	54.78	5.53	NM	3625.21	3569.05	0.09
MW-10	06/03/2014	52.92	49.38	3.54	NM	3621.07	3570.81	-0.48
MW-10	09/24/2014	52.25	48.90	3.35	NM	3621.07	3571.33	0.53
MW-10	12/02/2014	51.97	48.82	3.15	NM	3621.07	3571.46	0.13
MW-10	02/25/2015	52.65	49.30	3.35	NM	3621.07	3570.93	-0.53
MW-10	06/03/2015	52.51	49.09	3.42	NM	3621.07	3571.13	0.19
MW-12	06/03/2014	NM	NM	NM	NM	3626.60	NM	NM
MW-12	09/22/2014	56.81	56.49	0.32	62.51	3626.60	3570.03	NA
MW-12	12/02/2014	56.38	55.88	0.50	63.05	3626.60	3570.60	0.57
MW-12	02/25/2015	56.77	56.32	0.45	63.05	3626.60	3570.17	-0.43
MW-12	06/03/2015	NM	NM	NM	NM	3626.60	NM	NA
MW-14	06/03/2014	52.41			62.94	3621.42	3569.01	-0.54
MW-14	09/23/2014	52.36			62.76	3621.42	3569.06	0.05
MW-14	12/03/2014	51.91			NM	3621.42	3569.51	0.45
MW-14	02/25/2015	52.37			NM	3621.42	3569.05	-0.46
MW-14	06/03/2015	52.23			62.87	3621.42	3569.19	0.14

TABLE 1
SECOND QUARTER 2015
SUMMARY OF GROUNDWATER ELEVATION DATA
HOBBS BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (*) (feet amsl)	Change in Groundwater Elevation Since Previous Event(1) (feet)
MW-15	06/03/2014	48.27			58.30	3619.39	3571.12	-0.41
MW-15	09/23/2014	47.49			58.37	3619.39	3571.90	0.78
MW-15	12/03/2014	47.56			NM	3619.39	3571.83	-0.07
MW-15	02/25/2015	48.12			NM	3619.39	3571.27	-0.56
MW-15	06/03/2015	47.83			58.27	3619.39	3571.56	0.29
MW-16	06/03/2014	48.39			56.35	3621.87	3573.48	-0.45
MW-16	09/22/2014	47.96			56.10	3621.87	3573.91	0.43
MW-16	12/03/2014	47.37			NM	3621.87	3574.50	0.59
MW-16	02/25/2015	48.08			NM	3621.87	3573.79	-0.71
MW-16	06/03/2015	47.73			56.46	3621.87	3574.14	0.35
MW-17	06/03/2014	57.29	56.58	0.71	NM	3624.94	3568.18	-0.39
MW-17	09/24/2014	57.45	56.75	0.70	NM	3624.94	3568.02	-0.17
MW-17	12/02/2014	56.91	56.31	0.60	NM	3624.94	3568.48	0.46
MW-17	02/25/2015	57.35	56.67	0.68	NM	3624.94	3568.10	-0.38
MW-17	06/03/2015	57.70	56.64	1.06	NM	3624.94	3568.04	-0.07
MW-18	06/03/2014	57.66	57.64	0.02	NM	3625.30	3567.66	-0.43
MW-18	09/24/2014	57.83	57.81	0.02	NM	3625.30	3567.49	-0.17
MW-18	12/02/2014	57.45	57.40	0.05	NM	3625.30	3567.89	0.40
MW-18	02/25/2015	57.79	57.76	0.03	NM	3625.30	3567.53	-0.36
MW-18	06/03/2015	57.70	57.67	0.03	NM	3625.30	3567.62	0.09
MW-19	06/03/2014	58.03			65.17	3624.12	3566.09	-0.34
MW-19	09/23/2014	58.18			64.98	3624.12	3565.94	-0.15
MW-19	12/03/2014	57.83			NM	3624.12	3566.29	0.35
MW-19	02/25/2015	58.16			NM	3624.12	3565.96	-0.33
MW-19	06/03/2015	58.08			64.98	3624.12	3566.04	0.08
MW-19D	06/03/2014	58.03			78.75	3623.79	3565.76	-0.37
MW-19D	09/23/2014	58.14			78.59	3623.79	3565.65	-0.11
MW-19D	12/03/2014	57.81			NM	3623.79	3565.98	0.33
MW-19D	02/25/2015	58.19			NM	3623.79	3565.60	-0.38
MW-19D	06/03/2015	58.05			78.45	3623.79	3565.74	0.14
MW-20	06/03/2014	55.62			60.75	3621.49	3565.87	-0.33
MW-20	09/23/2014	55.75			60.75	3621.49	3565.74	-0.13
MW-20	12/03/2014	55.40			NM	3621.49	3566.09	0.35
MW-20	02/25/2015	55.77			NM	3621.49	3565.72	-0.37
MW-20	06/03/2015	55.66			60.65	3621.49	3565.83	0.11
MW-21	06/03/2014	57.57			62.75	3624.25	3566.68	-0.39
MW-21	09/22/2014	57.64			62.73	3624.25	3566.61	-0.07
MW-21	12/03/2014	57.16			NM	3624.25	3567.09	0.48
MW-21	02/25/2015	57.63			NM	3624.25	3566.62	-0.47
MW-21	06/03/2015	57.43			62.66	3624.25	3566.82	0.20
MW-22	06/03/2014	59.06			62.01	3625.16	3566.10	-0.35
MW-22	09/23/2014	59.15			61.84	3625.16	3566.01	-0.09
MW-22	12/03/2014	58.90			NM	3625.16	3566.26	0.25
MW-22	02/25/2015	59.19			NM	3625.16	3565.97	-0.29
MW-22	06/03/2015	59.21			62.01	3625.16	3565.95	-0.02
MW-23	06/03/2014	52.01			56.03	3621.16	3569.15	-0.54
MW-23	09/23/2014	52.03			57.34	3621.16	3569.13	-0.02
MW-23	12/03/2014	51.49			NM	3621.16	3569.67	0.54
MW-23	02/25/2015	51.97			NM	3621.16	3569.19	-0.48
MW-23	06/03/2015	51.80			57.33	3621.16	3569.36	0.17

TABLE 1
SECOND QUARTER 2015
SUMMARY OF GROUNDWATER ELEVATION DATA
HOBBS BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (*) (feet amsl)	Change in Groundwater Elevation Since Previous Event(1) (feet)
MW-24	06/03/2014	50.13			56.47	3619.27	3569.14	-0.54
MW-24	09/22/2014	50.15			56.55	3619.27	3569.12	-0.02
MW-24	12/03/2014	49.56			NM	3619.27	3569.71	0.59
MW-24	02/25/2015	50.07			NM	3619.27	3569.20	-0.51
MW-24	06/03/2015	49.85			57.40	3619.27	3569.42	0.22
MW-25	06/03/2014	51.07			56.30	3619.73	3568.66	-0.54
MW-25	09/22/2014	51.10			56.43	3619.73	3568.63	-0.03
MW-25	12/03/2014	50.52			NM	3619.73	3569.21	0.58
MW-25	02/25/2015	51.04			NM	3619.73	3568.69	-0.52
MW-25	06/03/2015	50.81			56.40	3619.73	3568.92	0.23
TW-H	06/03/2014	52.11	49.22	2.89	NM	3622.30	3572.36	NM
TW-H	09/24/2014	51.45	48.94	2.51	54.40	3622.30	3572.73	0.38
TW-H	12/02/2014	51.05	48.61	2.44	NM	3622.30	3573.08	0.35
TW-H	02/25/2015	51.64	49.19	2.45	NM	3622.30	3572.50	-0.58
TW-H	06/03/2015	51.36	49.02	2.34	54.22	3622.30	3572.70	0.20
TW-K	06/03/2014	62.18	58.74	3.44	NM	3628.95	3569.35	NM
TW-K	09/24/2014	NM	NM	NM	NM	3628.95	NM	NA
TW-K	12/02/2014	62.05	58.64	3.41	62.05	3628.95	3569.46	NA
TW-K	02/25/2015	>TD	58.86	>3.17	62.03	3628.95	NA	NA
TW-K	06/03/2015	>TD	59.00	>3.62	62.62	3628.95	NA	NA
TW-N	06/03/2014	59.28	58.39	0.89	NM	3631.98	3573.37	NM
TW-N	09/24/2014	Not Accessible - Construction Activity						
TW-N	12/02/2014	59.23	56.24	2.99	59.23	3631.98	3574.99	1.63
TW-N	02/25/2015	59.18	56.46	2.72	NM	3631.98	3574.84	-0.15
TW-N	06/03/2015	>TD	56.58	>2.66	59.24	3631.98	NA	NA
TW-Q	06/03/2014	NM	NM	NM	NM	NM	NA	NA
TW-Q	09/24/2014	Well Not Located - Presumed Destroyed						
TW-T	06/03/2014	63.71	60.09	3.62	63.88	NM	NA	NA
TW-T	09/24/2014	Casing Bent - Requires Repair						
TW-T	12/02/2014	63.71	59.99	3.72	NM	NM	NA	NA
TW-T	02/25/2015	63.80	60.20	3.60	NM	NM	NA	NA
TW-T	06/03/2015	>TD	59.86	>3.98	63.84	NM	NA	NA
TW-U	06/03/2014	63.94	60.61	3.33	63.94	NM	NA	NA
TW-U	09/24/2014	Probe Malfunction - LNAPL verified with bailer						
TW-U	12/02/2014	63.90	60.48	3.42	NM	NM	NA	NA
TW-U	02/25/2015	63.87	60.71	3.16	NM	NM	NA	NA
TW-U	06/03/2015	>TD	60.88	>3.77	64.65	NM	NA	NA
TW-V	06/03/2014	61.61			63.62	NM	NA	NA
TW-V	09/24/2014	Casing Bent - Requires Repair						
TW-V	12/02/2014	61.47	61.46	0.01	NM	NM	NA	NA
TW-V	02/25/2015	61.72			NM	NM	NA	NA
TW-V	06/03/2015	61.28			63.64	NM	NA	NA

TABLE 1
SECOND QUARTER 2015
SUMMARY OF GROUNDWATER ELEVATION DATA
HOBBS BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location	Date	Depth to Groundwater (feet)	Depth to Product (feet)	Free Phase Hydrocarbon Thickness (feet)	Total Depth (feet)	TOC Elevation (feet amsl)	Groundwater Elevation (*) (feet amsl)	Change in Groundwater Elevation Since Previous Event(1) (feet)
TW-W	06/03/2014	61.62	58.36	3.26	62.17	NM	NA	NA
TW-W	09/25/2014	> TD	58.18	>4.07	62.25	NM	NA	NA
TW-W	12/02/2014	61.90	57.87	>4.03	61.90	NM	NA	NA
TW-W	02/25/2015	>TD	58.00	>3.90	61.90	NM	NA	NA
TW-W	06/03/2015	>TD	58.21	>2.94	61.15	NM	NA	NA
Average change in groundwater elevation (2/25/15 to 6/3/15)								0.15

Notes:

1- Changes in groundwater elevation calculated by subtracting the measurement collected during the previous monitoring event from the measurement collected during the most recent monitoring event.

amsl = feet above mean sea level

TOC = top of casing

Groundwater elevation = (TOC Elevation - Measured Depth to Water)

* Groundwater elevation was corrected for product thickness using the following calculation, when applicable:

Groundwater elevation = (TOC Elevation - Measured Depth to Water) + (LNAPL Thickness in Well * LNAPL Relative Density)

LNAPL relative density is assumed to be approximately 0.75

NM = Not Measured

NA = Not Applicable

TD = Total Depth

TABLE 2
SECOND QUARTER 2015
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
HOBBS BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
NMWQCC Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-1	06/03/2015	LNAPL				Sampled Annually
MW-2	06/03/2015	LNAPL				Sampled Annually
MW-3	06/03/2015	NS	NS	NS	NS	Sampled Annually
MW-5	06/03/2015	NS	NS	NS	NS	Sampled Annually
MW-6	06/03/2015	NS	NS	NS	NS	Sampled Annually
MW-7	06/03/2015	Dry				Sampled Annually
MW-9	06/03/2015	LNAPL				Sampled Annually
MW-10	06/03/2015	LNAPL				Sampled Annually
MW-12	06/03/2015	NM				Sampled Annually
MW-14	06/03/2015	0.0077	<0.001	<0.001	<0.003	Duplicate Sample Collected
MW-14 (Duplicate)	06/03/2015	0.061	<0.001	<0.001	0.0047	
MW-15	06/03/2015	<0.001	<0.001	<0.001	<0.003	
MW-16	06/03/2015	<0.001	<0.001	<0.001	<0.003	
MW-17	06/03/2015	LNAPL				Sampled Annually
MW-18	06/03/2015	LNAPL				Sampled Annually
MW-19	06/03/2015	<0.001	<0.001	<0.001	<0.003	
MW-19D	06/03/2015	<0.001	<0.001	<0.001	<0.003	
MW-20	06/03/2015	<0.001	<0.001	<0.001	<0.003	
MW-21	06/03/2015	<0.001	<0.001	<0.001	<0.003	
MW-22	06/03/2015	0.110	<0.001	<0.001	0.0067	
MW-23	06/03/2015	0.0011	<0.001	<0.001	<0.003	
MW-24	06/03/2015	<0.001	<0.001	<0.001	<0.003	
MW-25	06/03/2015	<0.001	<0.001	<0.001	<0.003	

TABLE 2
SECOND QUARTER 2015
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
HOBBS BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
NMWQCC Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
Trip Blank	06/03/2015	<0.001	<0.001	<0.001	<0.003	

Notes:

Bold values indicate an exceedance of the NMWQCC groundwater standards for the Site.

NMWQCC = New Mexico Water Quality Control Commission

LNAPL = light non-aqueous phase liquid

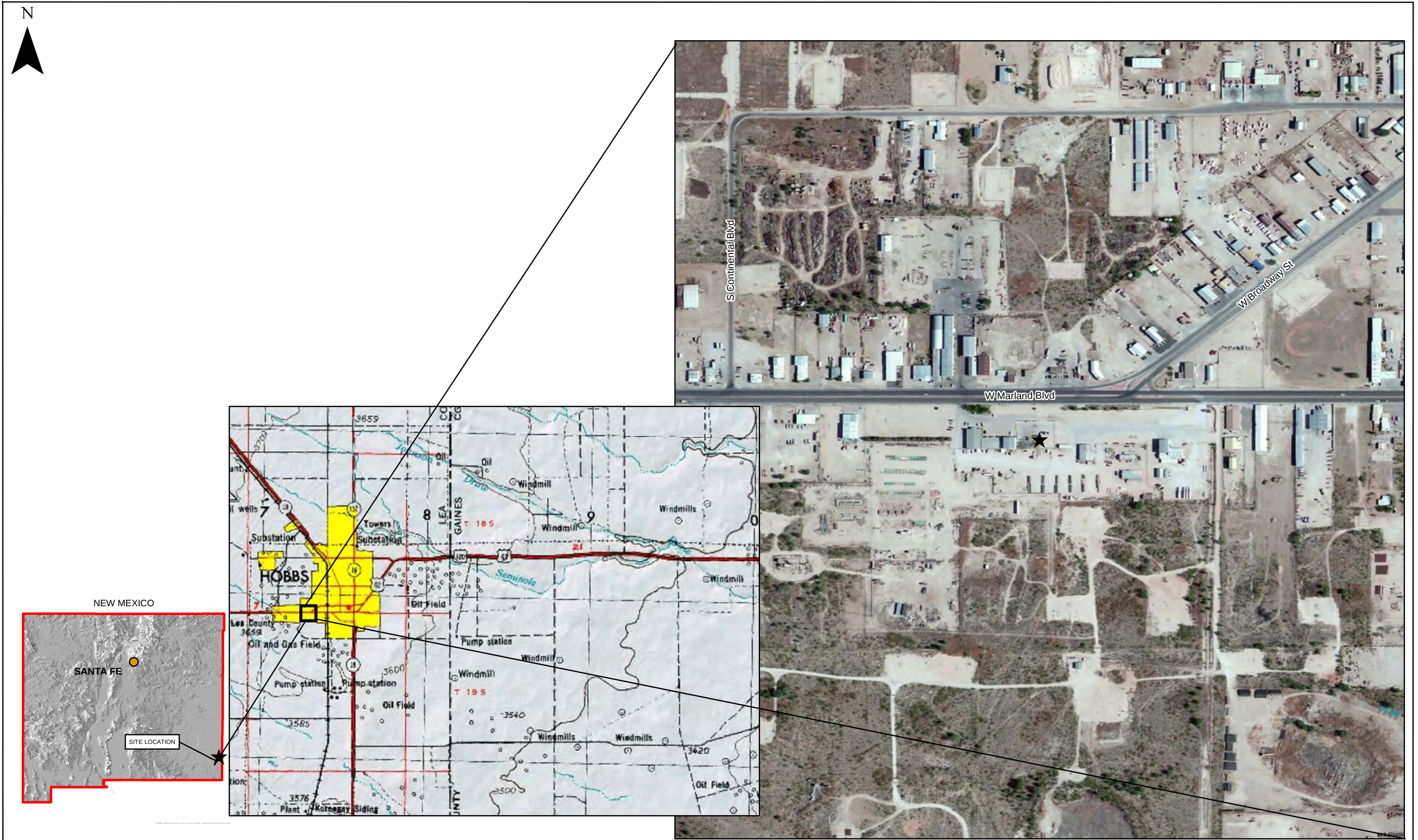
J = Estimated Value

NS = Not Sampled

mg/L = milligrams per liter

NM - Not Measured

Figures



DATE:	July 2015
DESIGNED BY:	T. Johansen
DRAWN BY:	D. Arnold

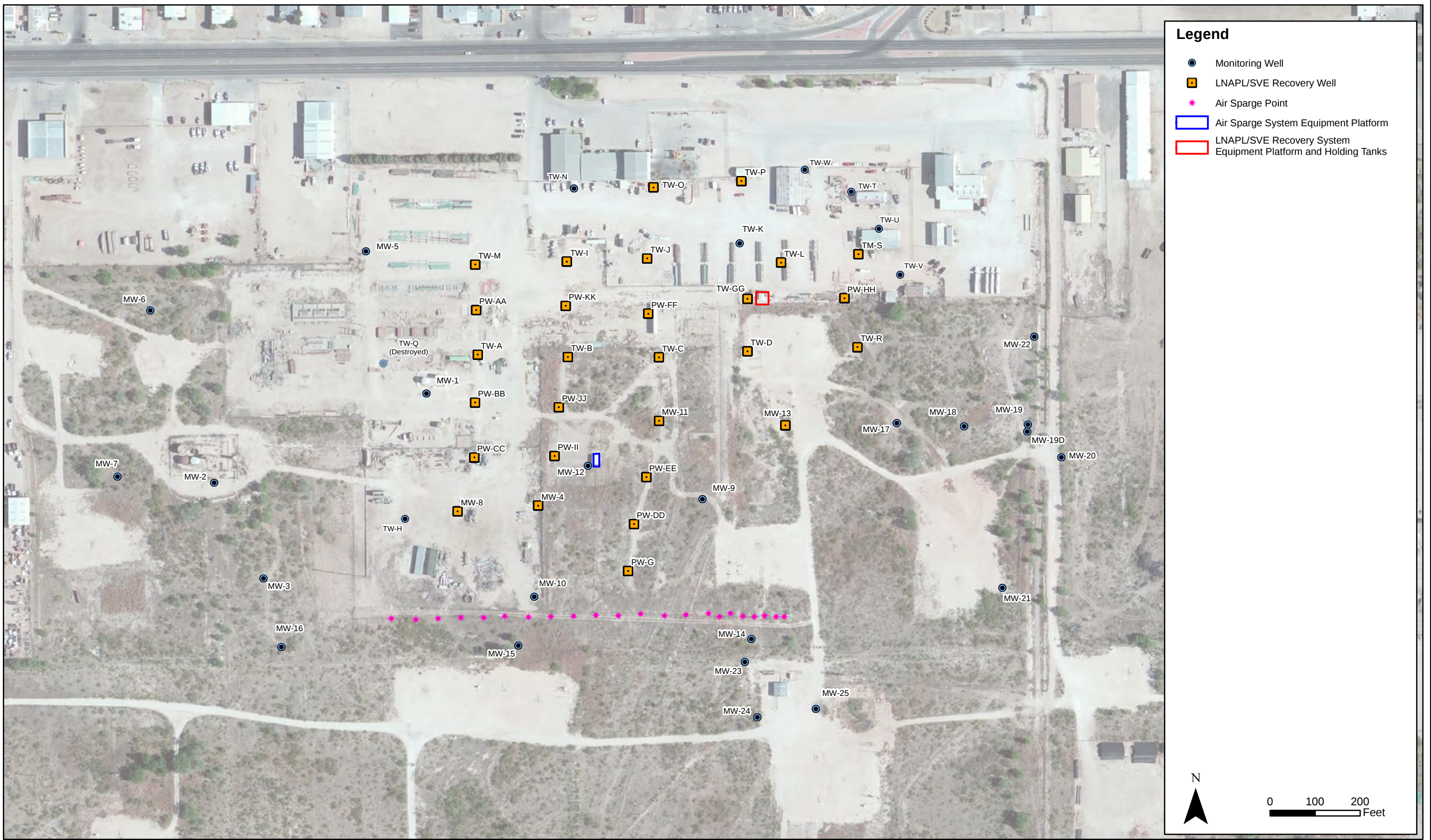


Tasman Geosciences, Inc.
6899 Pecos Street - Unit C
Denver, CO 80221

**DCP Midstream
Hobbs Booster Station**
Units C and D, Section 4, Township 19 South, Range 38 East
Lea County, New Mexico

Site Location
Map

Figure
1



DATE:	July 2015
DESIGNED BY:	T. Johansen
DRAWN BY:	D. Arnold

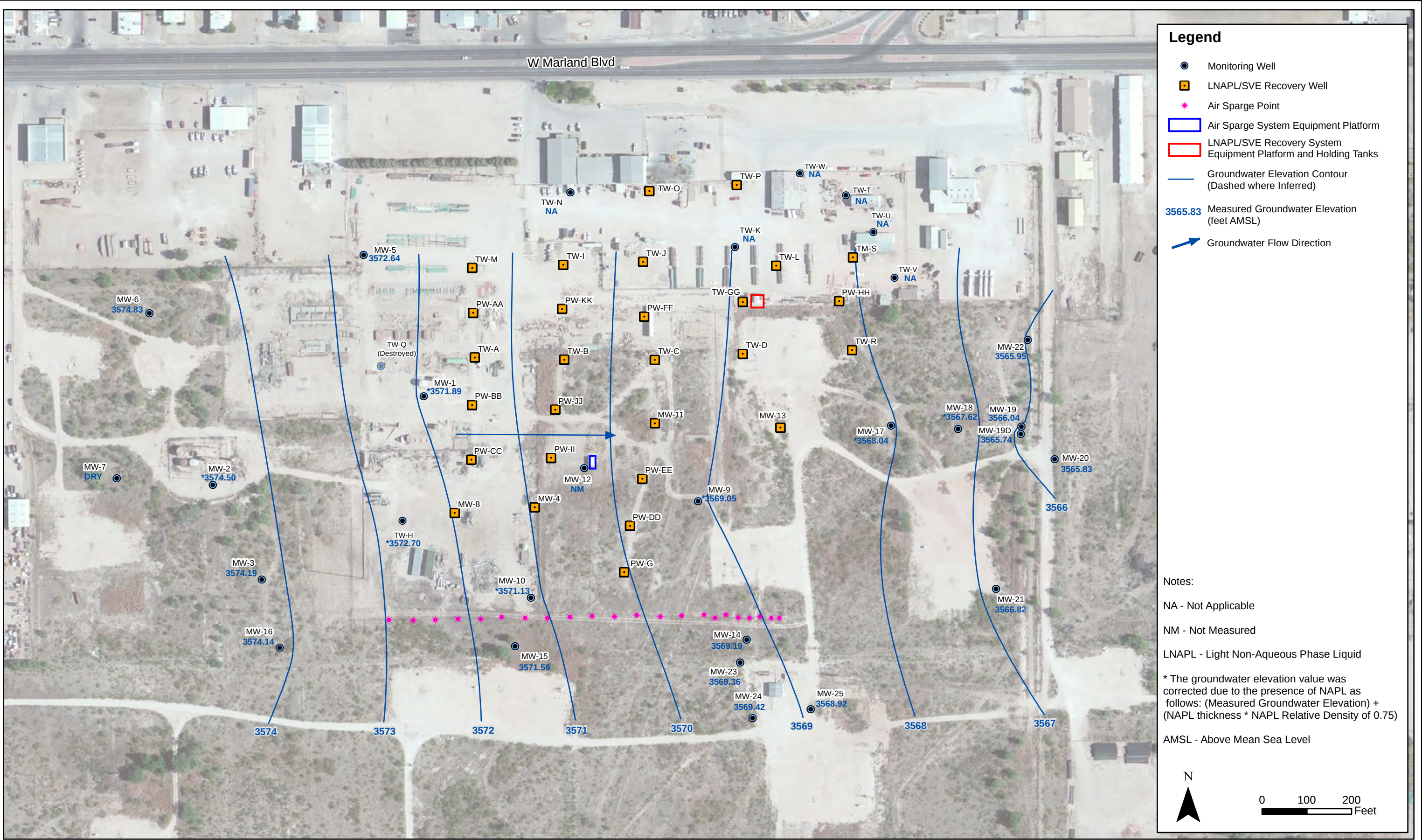


Tasman Geosciences, Inc.
6899 Pecos Street - Unit C
Denver, CO 80221

**DCP Midstream
Hobbs Booster Station**
Second Quarter 2015 Groundwater Monitoring
Summary Report

Site Map with
Monitoring Well Locations

**Figure
2**



DATE:	June 2015
DESIGNED BY:	T. Johansen
DRAWN BY:	D. Arnold

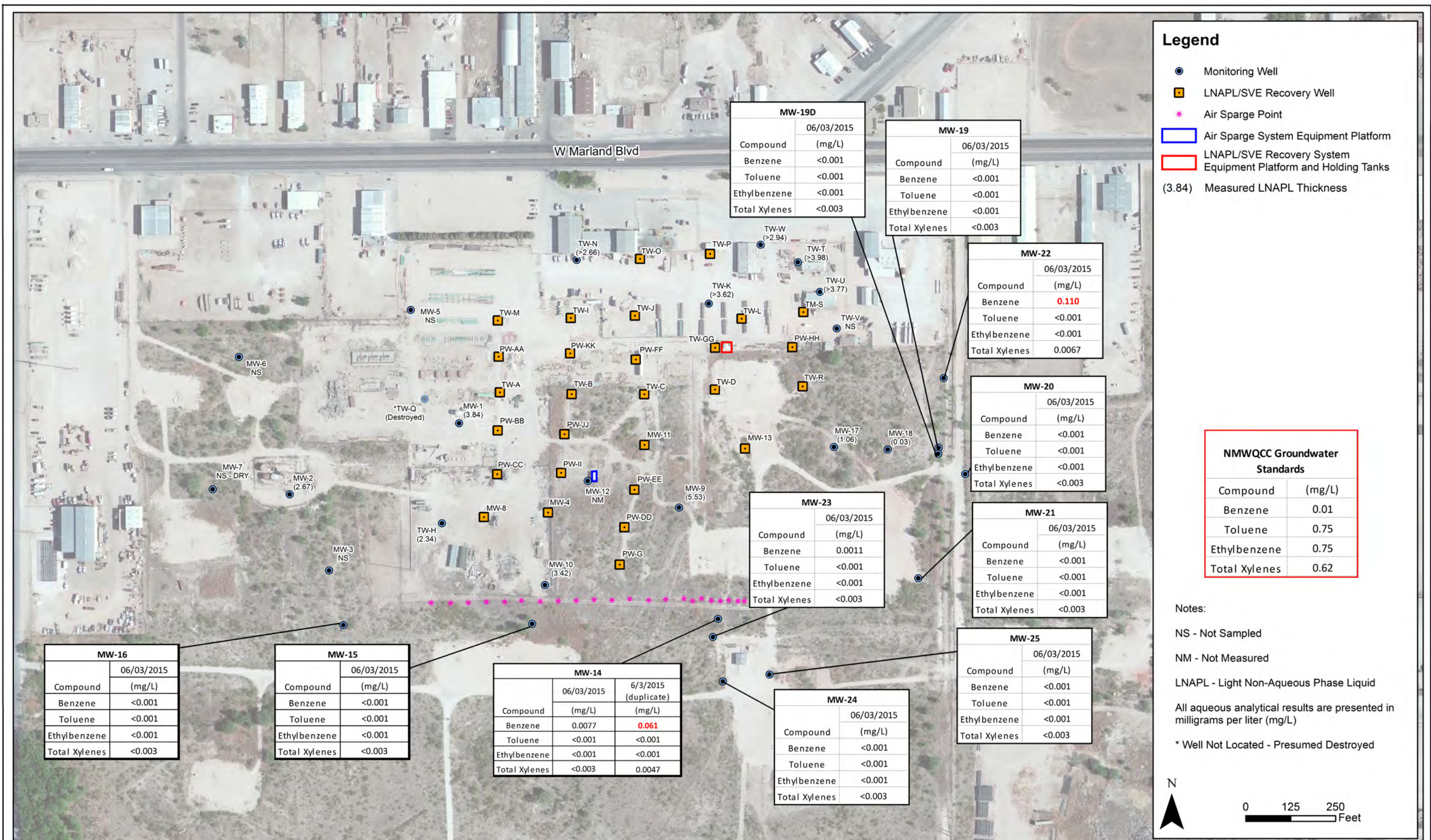


Tasman Geosciences, Inc.
6899 Pecos Street - Unit C
Denver, CO 80221

DCP Midstream
Hobbs Booster Station
Second Quarter 2015 Groundwater Monitoring
Summary Report

Groundwater Elevation
Contour Map
(June 3, 2015)

Figure
3



Appendix A

Historic Analytical Results

**APPENDIX A
HISTORIC ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
HOBBS BOOSTER STATION
LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
NMWQCC Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-1	09/15/2005	0.017	<0.002	0.047	0.066	
MW-1	02/27/2014	LNAPL				Sampled Annually
MW-1	06/03/2014	LNAPL				Sampled Annually
MW-1	09/24/2014	LNAPL				Annual Event
MW-1	12/03/2014	LNAPL				Sampled Annually
MW-1	02/25/2015	LNAPL				Sampled Annually
MW-1	06/03/2015	LNAPL				Sampled Annually
MW-2	02/27/2014	LNAPL				Sampled Annually
MW-2	06/03/2014	LNAPL				Sampled Annually
MW-2	09/24/2014	LNAPL				Annual Event
MW-2	12/03/2014	LNAPL				Sampled Annually
MW-2	02/25/2015	LNAPL				Sampled Annually
MW-2	06/03/2015	LNAPL				Sampled Annually
MW-3	09/14/2005	0.0025	<0.002	0.24	0.17	
MW-3	06/21/2006	0.0018	<0.002	0.14	0.089	
MW-3	06/27/2007	0.0012	<0.002	0.207	0.0977	
MW-3	09/21/2009	<0.002	<0.002	0.0123	0.0031	
MW-3	09/14/2010	<0.001	<0.002	0.0134	-	
MW-3	03/29/2011	NS	NS	NS	NS	
MW-3	09/16/2011	<0.001	<0.002	0.0246	0.0135	
MW-3	12/06/2011	NS	NS	NS	NS	
MW-3	03/09/2012	<0.001	<0.002	0.0019	<0.004	
MW-3	06/06/2012	NS	NS	NS	NS	
MW-3	09/06/2012	<0.001	<0.002	0.0022	0.0023	
MW-3	12/05/2012	NS	NS	NS	NS	
MW-3	02/19/2013	<0.001	<0.002	<0.002	<0.003	
MW-3	06/03/2013	NS	NS	NS	NS	
MW-3	09/10/2013	<0.001	<0.002	0.0023	<0.003	
MW-3	12/02/2013	NS	NS	NS	NS	
MW-3	02/27/2014	NS	NS	NS	NS	Sampled Annually
MW-3	06/03/2014	NS	NS	NS	NS	Sampled Annually
MW-3	09/22/2014	<0.001	<0.001	<0.001	<0.001	Annual Sample
MW-3	12/03/2014	NS	NS	NS	NS	Sampled Annually
MW-3	02/25/2015	NS	NS	NS	NS	Sampled Annually
MW-3	06/03/2015	NS	NS	NS	NS	Sampled Annually

APPENDIX A
HISTORIC ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
HOBBS BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
NMWQCC Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-5	09/14/2005	<0.002	<0.002	<0.002	<0.006	
MW-5	06/21/2006	<0.002	<0.002	<0.002	<0.006	
MW-5	06/27/2007	<0.002	<0.002	<0.002	<0.006	
MW-5	09/21/2009	<0.002	<0.002	<0.002	<0.006	
MW-5	09/14/2010	<0.001	<0.002	<0.002	-	
MW-5	03/29/2011	NS	NS	NS	NS	
MW-5	09/15/2011	<0.001	<0.002	<0.002	<0.004	
MW-5	12/06/2011	NS	NS	NS	NS	
MW-5	03/09/2012	<0.001	<0.002	<0.002	<0.004	
MW-5	06/06/2012	NS	NS	NS	NS	
MW-5	09/06/2012	<0.001	<0.002	<0.002	<0.003	
MW-5	12/05/2012	NS	NS	NS	NS	
MW-5	02/19/2013	<0.001	<0.002	<0.002	<0.003	
MW-5	06/03/2013	NS	NS	NS	NS	
MW-5	09/10/2013	<0.001	<0.002	<0.002	<0.003	
MW-5	12/02/2013	NS	NS	NS	NS	
MW-5	02/27/2014	NS	NS	NS	NS	Sampled Annually
MW-5	06/03/2014	NS	NS	NS	NS	Sampled Annually
MW-5	09/22/2014	<0.001	<0.001	<0.001	<0.001	Annual Sample
MW-5	12/03/2014	NS	NS	NS	NS	Sampled Annually
MW-5	02/25/2015	NS	NS	NS	NS	Sampled Annually
MW-5	06/03/2015	NS	NS	NS	NS	Sampled Annually

APPENDIX A
HISTORIC ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
HOBBS BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
NMWQCC Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-6	09/14/2005	<0.002	<0.002	<0.002	<0.006	
MW-6	06/21/2006	<0.002	<0.002	<0.002	<0.006	
MW-6	06/27/2007	<0.002	<0.002	<0.002	<0.006	
MW-6	09/21/2009	<0.002	<0.002	<0.002	<0.006	
MW-6	09/14/2010	<0.001	<0.002	<0.002	-	
MW-6	03/29/2011	NS	NS	NS	NS	
MW-6	09/16/2011	<0.001	<0.002	<0.002	<0.004	
MW-6	12/06/2011	NS	NS	NS	NS	
MW-6	03/09/2012	<0.001	<0.002	<0.002	<0.004	
MW-6	06/06/2012	NS	NS	NS	NS	
MW-6	09/06/2012	<0.001	<0.002	<0.002	<0.003	
MW-6	12/05/2012	NS	NS	NS	NS	
MW-6	02/19/2013	<0.001	<0.002	<0.002	<0.003	
MW-6	06/03/2013	NS	NS	NS	NS	
MW-6	09/10/2013	<0.001	<0.002	<0.002	<0.003	
MW-6	12/02/2013	NS	NS	NS	NS	
MW-6	02/27/2014	NS	NS	NS	NS	Sampled Annually
MW-6	06/03/2014	NS	NS	NS	NS	Sampled Annually
MW-6	09/22/2014	<0.001	<0.001	<0.001	<0.001	Annual Sample
MW-6	12/03/2014	NS	NS	NS	NS	Sampled Annually
MW-6	02/25/2015	NS	NS	NS	NS	Sampled Annually
MW-6	06/03/2015	NS	NS	NS	NS	Sampled Annually
MW-7	06/21/2006	<0.002	<0.002	<0.002	<0.006	
MW-7	06/27/2007	<0.002	<0.002	<0.002	<0.006	
MW-7	03/09/2009	<0.002	<0.002	<0.002	<0.006	
MW-7	09/21/2009	<0.002	<0.002	<0.002	<0.006	
MW-7	09/29/2010	<0.001	<0.002	<0.002	-	
MW-7	03/29/2011	NS	NS	NS	NS	
MW-7	09/16/2011	NS	NS	NS	NS	
MW-7	12/06/2011	NS	NS	NS	NS	
MW-7	03/09/2012	<0.001	<0.002	<0.002	<0.004	Sampled Annually
MW-7	06/06/2012	NS	NS	NS	NS	Sampled Annually
MW-7	09/06/2012	NS	NS	NS	NS	Insufficient water to sample
MW-7	12/05/2012	NS	NS	NS	NS	Sampled Annually
MW-7	02/19/2013	NS	NS	NS	NS	Sampled Annually
MW-7	06/03/2013	NS	NS	NS	NS	Sampled Annually
MW-7	09/10/2013	NS	NS	NS	NS	Insufficient water to sample
MW-7	12/02/2013	NS	NS	NS	NS	Sampled Annually
MW-7	02/27/2014	NS	NS	NS	NS	Sampled Annually
MW-7	06/03/2014	NS	NS	NS	NS	Sampled Annually
MW-7	09/22/2014	Dry				Annual Event
MW-7	12/03/2014	Dry				Sampled Annually
MW-7	02/25/2015	Dry				Sampled Annually
MW-7	06/03/2015	Dry				Sampled Annually

**APPENDIX A
HISTORIC ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
HOBBS BOOSTER STATION
LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
NMWQCC Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-9	02/27/2014	LNAPL				Sampled Annually
MW-9	06/03/2014	LNAPL				Sampled Annually
MW-9	09/24/2014	LNAPL				Annual Event
MW-9	12/03/2014	LNAPL				Sampled Annually
MW-9	02/25/2015	LNAPL				Sampled Annually
MW-9	06/03/2015	LNAPL				Sampled Annually
MW-10	06/21/2006	0.62	0.0195	0.19	0.26	
MW-10	06/27/2007	0.42	0.0037	0.221	0.31	
MW-10	09/21/2009	0.0813	<0.002	0.343	0.0115	
MW-10	09/14/2010	0.123	<0.002	0.274	-	
MW-10	03/29/2011	NS	NS	NS	NS	
MW-10	09/16/2011	0.213	<0.002	0.135	<0.02	Duplicate sample collected
MW-10	12/06/2011	NS	NS	NS	NS	
MW-10	03/09/2012	NS	NS	NS	NS	
MW-10	06/06/2012	NS	NS	NS	NS	
MW-10	09/06/2012	NS	NS	NS	NS	
MW-10	12/05/2012	NS	NS	NS	NS	
MW-10	02/19/2013	LNAPL				
MW-10	06/03/2013	LNAPL				
MW-10	09/10/2013	LNAPL				
MW-10	12/02/2013	LNAPL				
MW-10	02/27/2014	LNAPL				Sampled Annually
MW-10	06/03/2014	LNAPL				Sampled Annually
MW-10	09/24/2014	LNAPL				Annual Event
MW-10	12/03/2014	LNAPL				Sampled Annually
MW-10	02/25/2015	LNAPL				Sampled Annually
MW-10	06/03/2015	LNAPL				Sampled Annually
MW-12	02/27/2014	LNAPL				Sampled Annually
MW-12	06/03/2014	LNAPL				Sampled Annually
MW-12	09/22/2014	LNAPL				Annual Event
MW-12	12/03/2014	LNAPL				Sampled Annually
MW-12	02/25/2015	LNAPL				Sampled Annually
MW-12	06/03/2015	NM				Sampled Annually

APPENDIX A
HISTORIC ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
HOBBS BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
NMWQCC Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-14	03/23/2005	0.085	<0.001	0.024	0.0043	
MW-14	06/08/2005	0.48	0.0041	0.073	0.013	
MW-14	09/14/2005	0.077	<0.002	0.0088	<2.0	
MW-14	12/13/2005	0.045	<0.002	0.0099	0.003	
MW-14	03/28/2006	0.022	<0.002	0.0068	0.0026	
MW-14	06/21/2006	0.014	0.00095	0.005	0.0042	
MW-14	09/27/2006	0.18	0.014	0.015	0.026	
MW-14	12/20/2006	0.5	0.020	0.029	0.059	
MW-14	03/29/2007	0.881	0.0115	0.0368	0.0809	
MW-14	06/27/2007	1.11	0.0100	0.0421	0.104	
MW-14	09/06/2007	0.603	0.00088	0.0194	0.0243	
MW-14	11/28/2007	0.431	<0.0027	0.0155	0.0075	
MW-14	03/06/2008	0.627	0.04	0.0372	0.0228	
MW-14	12/02/2008	0.38	<0.002	0.0172	<0.0014	
MW-14	03/09/2009	0.341	<0.002	0.017	<0.0014	
MW-14	05/26/2009	0.285	<0.01	0.0104	<0.0068	
MW-14	09/21/2009	0.205	<0.002	0.008	<0.0017	
MW-14	12/20/2009	0.165	<0.002	0.0037	<0.0017	
MW-14	03/09/2010	<0.40	<0.002	<1.0	-	
MW-14	06/14/2010	0.081	<0.002	0.0017	-	
MW-14	09/14/2010	0.11	<0.002	0.0024	-	
MW-14	12/07/2010	0.118	<0.002	0.002	-	
MW-14	03/29/2011	0.0901	<0.002	<0.002	<0.002	
MW-14	03/29/2011	<0.001	<0.002	0.0039	<0.002	
MW-14	03/29/2011	0.0901	<0.0010	0.0041	0.0011	
MW-14	03/29/2011	0.0901	0.0041	<0.002	<0.002	
MW-14	06/21/2011	0.187	<0.002	<.0043	<0.004	
MW-14	06/21/2011	0.0048	<0.002	0.0012	<0.004	
MW-14	06/21/2011	0.187	<0.0010	0.0043	<0.0020	
MW-14	06/21/2011	0.187	<0.002	<.0043	<0.004	
MW-14	09/15/2011	0.15	<0.002	0.0024	<0.004	
MW-14	12/06/2011	0.0787	<0.002	0.0017	<0.004	Duplicate sample collected
MW-14	03/09/2012	0.0523	<0.002	0.00066	<0.004	
MW-14	06/06/2012	0.0335	<0.002	0.00064	<0.003	
MW-14	09/06/2012	0.105	<0.002	0.0012	<0.003	
MW-14	12/05/2012	0.129	<0.002	0.00081	<0.003	
MW-14	02/19/2013	0.0603	<0.002	0.00084	<0.003	
MW-14	06/03/2013	0.0461	<0.002	0.0012	<0.003	Duplicate sample collected
MW-14	09/10/2013	0.0959	<0.002	0.0016	<0.003	Duplicate A sample collected
MW-14	12/02/2013	0.0636	<0.002	0.0011	<0.003	Duplicate A sample collected
MW-14	02/27/2014	0.1050	<0.002	0.0012 J	0.0021 J	Duplicate sample collected
MW-14 - Duplicate	02/27/2014	0.1170	<0.002	0.0012 J	0.0022 J	
MW-14	06/03/2014	0.0265	<0.002	0.00084 J	<0.003	Duplicate sample collected
MW-14 - Duplicate	06/03/2014	0.0209	<0.002	0.00058 J	<0.003	
MW-14	09/23/2014	0.100	<0.001	0.00066 J	0.0026	Duplicate A Sample Collected
MW-14 (Duplicate)	09/23/2014	0.0673	<0.001	0.00064 J	0.0017	
MW-14	12/03/2014	0.0186	<0.001	<0.001	<0.003	Duplicate Sample Collected
MW-14 (Duplicate)	12/03/2014	0.0216	<0.001	0.00034 J	0.00081 J	
MW-14	02/25/2015	0.0460	<0.005	<0.005	<0.015	Duplicate Sample Collected
MW-14 (Duplicate)	02/25/2015	0.0460	<0.005	<0.005	<0.015	
MW-14	06/03/2015	0.0077	<0.001	<0.001	<0.003	Duplicate Sample Collected
MW-14 (Duplicate)	06/03/2015	0.061	<0.001	<0.001	0.0047	

APPENDIX A
HISTORIC ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
HOBBS BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
NMWQCC Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-15	03/23/2005	<0.001	<0.002	<0.002	<0.006	
MW-15	06/08/2005	<0.001	<0.002	0.0034	<0.006	
MW-15	09/14/2005	<0.002	<0.002	0.0022	<0.006	
MW-15	12/13/2005	<0.002	<0.002	<0.002	<0.006	
MW-15	03/28/2006	<0.002	<0.002	0.0049	<0.006	
MW-15	06/21/2006	<0.002	<0.002	0.02	<0.006	
MW-15	09/27/2006	0.002	<0.002	<0.002	<0.006	
MW-15	12/20/2006	<0.002	<0.002	<0.002	<0.006	
MW-15	03/29/2007	0.0012	<0.002	0.0045	<0.006	
MW-15	06/27/2007	0.00042	<0.002	0.0014	<0.006	
MW-15	09/06/2007	<0.002	<0.002	<0.002	<0.006	
MW-15	11/28/2007	<0.0012	<0.002	<0.002	<0.006	
MW-15	03/06/2008	<0.002	<0.002	<0.002	<0.006	
MW-15	12/02/2008	<0.002	<0.002	<0.002	<0.006	
MW-15	03/09/2009	<0.002	<0.002	<0.002	<0.006	
MW-15	05/26/2009	0.0024	<0.002	0.0413	<0.006	
MW-15	09/21/2009	0.0033	<0.002	0.0501	<0.006	
MW-15	12/20/2009	0.00093	<0.002	0.0137	<0.006	
MW-15	03/09/2010	0.0041	<0.002	0.099	-	
MW-15	06/14/2010	0.0055	<0.002	0.16	-	
MW-15	09/14/2010	0.00075	<0.002	0.0015	-	
MW-15	12/07/2010	<0.001	<0.002	0.0011	-	
MW-15	03/29/2011	0.00035	<0.002	0.0039	0.0012	
MW-15	03/29/2011	<0.001	<0.002	0.0039	<0.002	
MW-15	06/21/2011	0.0048	<0.0010	0.0012	<0.0020	
MW-15	06/21/2011	0.0048	<0.002	0.0012	<0.004	
MW-15	09/15/2011	0.0054	<0.002	0.0124	<0.004	
MW-15	12/06/2011	0.0053	<0.002	0.0106	<0.004	
MW-15	03/09/2012	0.0059	<0.002	0.0097	<0.004	Duplicate-1 sample collected
MW-15	06/06/2012	0.0041	<0.002	<0.002	<0.003	Duplicate sample collected
MW-15	09/06/2012	0.0033	<0.002	<0.002	<0.003	Duplicate-1 sample collected
MW-15	12/05/2012	0.0027	<0.002	<0.002	<0.003	Duplicate sample collected
MW-15	02/19/2013	0.0020	<0.002	<0.002	<0.003	Duplicate A sample collected
MW-15	06/03/2013	0.0019	<0.002	<0.002	<0.003	
MW-15	09/10/2013	0.0022	<0.002	<0.002	<0.003	
MW-15	12/02/2013	0.0017	<0.002	<0.002	<0.003	
MW-15	02/27/2014	0.0021	<0.002	<0.002	<0.003	
MW-15	06/03/2014	0.0019	<0.002	<0.002	<0.003	
MW-15	09/22/2014	0.0027	<0.001	<0.001	<0.001	
MW-15	12/03/2014	0.0018	0.00031J	<0.001	<0.003	
MW-15	02/25/2015	0.0015	<0.001	0.0021	<0.003	
MW-15	06/03/2015	<0.001	<0.001	<0.001	<0.003	

**APPENDIX A
HISTORIC ANALYTICAL RESULTS
BTX CONCENTRATIONS IN GROUNDWATER
HOBBS BOOSTER STATION
LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
NMWQCC Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-16	03/23/2005	<0.001	<0.002	<0.002	<0.006	
MW-16	06/08/2005	<0.001	<0.002	<0.002	<0.006	
MW-16	09/14/2005	<0.002	<0.002	<0.002	<0.006	
MW-16	12/13/2005	<0.002	<0.002	<0.002	<0.006	
MW-16	03/28/2006	<0.002	<0.002	<0.002	<0.006	
MW-16	06/21/2006	<0.002	<0.002	<0.002	<0.006	
MW-16	09/27/2006	<0.002	<0.002	<0.002	<0.006	
MW-16	12/20/2006	<0.002	<0.002	<0.002	<0.006	
MW-16	03/29/2007	0.00043	<0.002	<0.002	<0.006	
MW-16	06/27/2007	<0.002	<0.002	<0.002	<0.006	
MW-16	09/06/2007	<0.002	<0.002	<0.002	<0.006	
MW-16	11/28/2007	<0.0012	<0.002	<0.002	<0.006	
MW-16	03/06/2008	<0.002	<0.002	<0.002	<0.006	
MW-16	12/02/2008	<0.002	<0.002	<0.002	<0.006	
MW-16	03/09/2009	<0.002	<0.002	<0.002	<0.006	
MW-16	05/26/2009	<0.002	<0.002	<0.002	<0.006	
MW-16	09/21/2009	<0.002	<0.002	<0.002	<0.006	
MW-16	12/20/2009	<0.002	<0.002	<0.002	<0.006	
MW-16	03/09/2010	<0.001	<0.002	0.0028	-	
MW-16	06/14/2010	<0.001	<0.002	<0.30	-	
MW-16	09/14/2010	<0.001	<0.002	<0.00030	-	
MW-16	12/07/2010	<0.001	<0.002	<0.00030	-	
MW-16	03/29/2011	<0.00030	<0.002	<0.00030	0.0012	
MW-16	03/29/2011	<0.001	<0.002	<0.002	<0.002	
MW-16	06/21/2011	<0.001	<0.0010	<0.00050	<0.0020	
MW-16	06/21/2011	<0.001	<0.002	<0.002	<0.004	
MW-16	09/15/2011	<0.001	<0.002	<0.002	<0.004	
MW-16	12/06/2011	<0.001	<0.002	<0.002	<0.004	
MW-16	03/09/2012	<0.001	<0.002	<0.002	<0.004	
MW-16	06/06/2012	<0.001	<0.002	<0.002	<0.003	
MW-16	09/06/2012	<0.001	<0.002	<0.002	<0.003	
MW-16	12/05/2012	<0.001	<0.002	<0.002	<0.003	
MW-16	02/19/2013	<0.001	<0.002	<0.002	<0.003	
MW-16	06/03/2013	<0.001	<0.002	<0.002	<0.003	
MW-16	09/10/2013	<0.001	<0.002	<0.002	<0.003	
MW-16	12/02/2013	<0.001	<0.002	<0.002	<0.003	
MW-16	02/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-16	06/03/2014	<0.001	<0.002	<0.002	<0.003	
MW-16	09/23/2014	<0.001	<0.001	<0.001	<0.001	MS/MSD Collected
MW-16	12/03/2014	<0.001	<0.001	<0.001	<0.003	MS/MSD Collected
MW-16	02/25/2015	<0.001	<0.001	<0.001	<0.003	
MW-16	06/03/2015	<0.001	<0.001	<0.001	<0.003	
MW-17	02/27/2014	LNAPL				Sampled Annually
MW-17	06/03/2014	LNAPL				Sampled Annually
MW-17	09/24/2014	LNAPL				Annual Event
MW-17	12/03/2014	LNAPL				Sampled Annually
MW-17	06/03/2015	LNAPL				Sampled Annually

APPENDIX A
HISTORIC ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
HOBBS BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
NMWQCC Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-18	06/21/2006	0.013	0.0017	0.031	0.023	
MW-18	06/27/2007	0.0214	0.0016	0.0475	0.0178	
MW-18	12/02/2008	0.0216	<0.002	0.0221	0.0183	
MW-18	09/21/2009	0.0445	<0.002	0.0297	0.0264	
MW-18	02/27/2014	LNAPL				Sampled Annually
MW-18	06/03/2014	LNAPL				Sampled Annually
MW-18	09/24/2014	LNAPL				Annual Event
MW-18	12/03/2014	LNAPL				Sampled Annually
MW-18	06/03/2015	LNAPL				Sampled Annually
MW-19	03/23/2005	0.0019	<0.002	<0.002	<0.006	
MW-19	06/08/2005	0.0012	0.0720	<0.002	<0.006	
MW-19	09/14/2005	<0.002	<0.002	<0.002	<0.006	
MW-19	12/13/2005	<0.002	<0.002	<0.002	<0.006	
MW-19	03/28/2006	<0.002	<0.002	<0.002	<0.006	
MW-19	06/21/2006	<0.002	<0.002	<0.002	<0.006	
MW-19	12/20/2006	0.0007	<0.002	<0.002	<0.006	
MW-19	03/29/2007	0.00075	<0.002	<0.002	<0.006	
MW-19	06/27/2007	0.00071	<0.002	<0.002	<0.006	
MW-19	09/06/2007	0.00053	<0.002	<0.002	<0.006	
MW-19	11/28/2007	0.00054	<0.002	<0.002	<0.006	
MW-19	03/06/2008	0.00054	<0.002	<0.002	<0.006	
MW-19	12/02/2008	<0.002	<0.002	<0.002	<0.006	
MW-19	03/09/2009	<0.002	<0.002	<0.002	<0.006	
MW-19	05/26/2009	<0.002	<0.002	<0.002	<0.006	
MW-19	09/21/2009	<0.002	<0.002	<0.002	<0.006	
MW-19	12/20/2009	<0.002	<0.002	<0.002	<0.006	
MW-19	03/09/2010	0.0009	<0.002	<1.0	-	
MW-19	06/14/2010	0.00051	<0.002	<0.30	-	
MW-19	09/14/2010	0.00036	<0.002	<0.002	-	
MW-19	12/07/2010	<0.001	<0.002	0.00068	-	
MW-19	03/29/2011	<0.001	<0.002	<0.002	0.0008	
MW-19	03/29/2011	<0.001	<0.002	<0.002	<0.002	
MW-19	06/21/2011	<0.001	<0.0010	<0.002	<0.0020	
MW-19	06/21/2011	<0.001	<0.002	<0.002	<0.004	
MW-19	09/15/2011	<0.001	<0.002	<0.002	<0.004	
MW-19	12/06/2011	<0.001	<0.002	<0.002	<0.004	
MW-19	03/09/2012	<0.001	<0.002	<0.002	<0.004	
MW-19	06/06/2012	<0.001	<0.002	<0.002	<0.003	
MW-19	09/06/2012	<0.001	<0.002	<0.002	<0.003	
MW-19	12/05/2012	<0.001	<0.002	<0.002	<0.003	
MW-19	02/19/2013	<0.001	<0.002	<0.002	<0.003	
MW-19	06/03/2013	<0.001	<0.002	<0.002	<0.003	
MW-19	09/10/2013	<0.001	<0.002	<0.002	<0.003	
MW-19	12/02/2013	<0.001	<0.002	<0.002	<0.003	
MW-19	02/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-19	06/03/2014	<0.001	<0.002	<0.002	<0.003	
MW-19	09/23/2014	<0.001	<0.001	<0.001	<0.001	
MW-19	12/03/2014	<0.001	<0.001	<0.001	<0.003	
MW-19	02/25/2015	<0.001	<0.001	<0.001	<0.003	
MW-19	06/03/2015	<0.001	<0.001	<0.001	<0.003	
MW-19S	09/27/2006	<0.23	<0.54	<0.48	<1.1	
MW-19S	Well Not On Sampling Plan					

APPENDIX A
HISTORIC ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
HOBBS BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
NMWQCC Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-19D	03/23/2005	0.00073	<0.002	<0.002	<0.006	
MW-19D	06/08/2005	0.0011	0.0012	<0.002	<0.006	
MW-19D	09/14/2005	<0.002	<0.002	<0.002	<0.006	
MW-19D	12/13/2005	<0.002	<0.002	<0.002	<0.006	
MW-19D	03/28/2006	<0.002	<0.002	<0.002	<0.006	
MW-19D	06/21/2006	0.0011	<0.002	<0.002	<0.006	
MW-19D	09/27/2006	<0.002	<0.002	<0.002	<0.006	
MW-19D	12/20/2006	0.0018	<0.002	0.00074	<0.006	
MW-19D	03/29/2007	0.0007	<0.002	<0.002	<0.006	
MW-19D	06/27/2007	0.00074	<0.002	<0.002	<0.006	
MW-19D	09/06/2007	0.00072	<0.002	<0.002	<0.006	
MW-19D	11/28/2007	0.00093	<0.002	<0.002	<0.006	
MW-19D	03/06/2008	0.001	<0.002	<0.002	<0.006	
MW-19D	12/02/2008	0.0016	<0.002	<0.002	<0.006	
MW-19D	03/09/2009	<0.002	<0.002	<0.002	<0.006	
MW-19D	05/26/2009	0.00074	<0.002	<0.002	<0.006	
MW-19D	09/21/2009	0.0011	<0.002	<0.002	<0.006	
MW-19D	12/20/2009	0.0009	<0.002	<0.002	<0.006	
MW-19D	03/09/2010	0.0009	<0.002	<0.002	-	
MW-19D	06/14/2010	0.00037	<0.002	<0.002	-	
MW-19D	09/14/2010	0.00086	<0.002	<0.002	-	
MW-19D	12/07/2010	0.00085	<0.002	<0.002	-	
MW-19D	03/29/2011	0.00091	<0.002	<0.002	0.00074	
MW-19D	03/29/2011	<0.001	<0.002	<0.002	<0.002	
MW-19D	06/21/2011	0.00056	<0.002	<0.002	<0.0020	
MW-19D	06/21/2011	.0006 J	<0.002	<0.002	<0.004	
MW-19D	09/15/2011	0.0014	<0.002	<0.002	<0.004	
MW-19D	12/06/2011	0.0015	<0.002	<0.002	<0.004	
MW-19D	03/09/2012	0.0015	<0.002	<0.002	<0.004	Duplicate-2 sample collected
MW-19D	06/06/2012	0.00079	<0.002	<0.002	<0.003	
MW-19D	09/06/2012	0.00072	<0.002	<0.002	<0.003	Duplicate-2 sample collected
MW-19D	12/05/2012	0.0030	<0.002	0.00069	<0.003	
MW-19D	02/19/2013	0.0086	<0.002	0.0045	<0.003	Duplicate B sample collected
MW-19D	06/03/2013	0.00073	<0.002	0.0064	<0.003	
MW-19D	09/10/2013	0.00054	<0.002	0.00087	<0.003	Duplicate B sample collected
MW-19D	12/02/2013	0.00057	<0.002	<0.002	<0.003	
MW-19D	02/27/2014	0.00059 J	<0.002	<0.002	<0.003	
MW-19D	06/03/2014	0.00220	<0.002	<0.002	<0.003	
MW-19D	09/23/2014	0.0076	<0.001	0.0022	<0.001	
MW-19D	12/03/2014	0.0054	<0.001	0.0042	<0.003	
MW-19D	02/25/2015	<0.001	<0.001	0.0031	<0.003	
MW-19D	06/03/2015	<0.001	<0.001	<0.001	<0.003	

APPENDIX A
HISTORIC ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
HOBBS BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
NMWQCC Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-20	03/23/2005	<0.001	<0.002	<0.002	<0.006	
MW-20	06/08/2005	<0.001	<0.002	<0.002	<0.006	
MW-20	09/14/2005	<0.002	<0.002	<0.002	<0.006	
MW-20	12/13/2005	<0.002	<0.002	<0.002	<0.006	
MW-20	03/28/2006	<0.002	<0.002	<0.002	<0.006	
MW-20	06/21/2006	<0.002	<0.002	<0.002	<0.006	
MW-20	09/27/2006	<0.002	<0.002	<0.002	<0.006	
MW-20	12/20/2006	0.00028	<0.002	<0.002	<0.006	
MW-20	03/29/2007	<0.002	<0.002	<0.002	<0.006	
MW-20	06/27/2007	<0.002	<0.002	<0.002	<0.006	
MW-20	09/06/2007	<0.002	<0.002	<0.002	<0.006	
MW-20	11/28/2007	<0.002	<0.002	<0.002	<0.006	
MW-20	03/06/2008	<0.002	<0.002	<0.002	<0.006	
MW-20	12/02/2008	<0.002	<0.002	<0.002	<0.006	
MW-20	03/09/2009	<0.002	<0.002	<0.002	<0.006	
MW-20	05/26/2009	<0.002	<0.002	<0.002	<0.006	
MW-20	09/21/2009	<0.002	<0.002	<0.002	<0.006	
MW-20	12/20/2009	<0.002	<0.002	<0.002	<0.006	
MW-20	03/09/2010	<0.001	<0.002	<0.002	-	
MW-20	06/14/2010	<0.001	<0.002	<0.002	-	
MW-20	09/14/2010	<0.001	<0.002	<0.002	-	
MW-20	12/07/2010	<0.001	<0.002	<0.002	-	
MW-20	03/29/2011	<0.001	<0.002	<0.002	0.0006	
MW-20	03/29/2011	<0.001	<0.002	<0.002	<0.002	
MW-20	06/21/2011	<0.001	<0.002	<0.002	<0.0020	
MW-20	06/21/2011	<0.001	<0.002	<0.002	<0.004	
MW-20	09/15/2011	<0.001	<0.002	<0.002	<0.004	
MW-20	12/06/2011	<0.001	<0.002	<0.002	<0.004	
MW-20	03/09/2012	0.00033	<0.002	<0.002	<0.004	
MW-20	06/06/2012	<0.001	<0.002	<0.002	<0.003	
MW-20	09/06/2012	<0.001	<0.002	<0.002	<0.003	
MW-20	12/05/2012	<0.001	<0.002	<0.002	<0.003	
MW-20	02/19/2013	<0.001	<0.002	<0.002	<0.003	
MW-20	06/03/2013	<0.001	<0.002	<0.002	<0.003	
MW-20	09/10/2013	<0.001	<0.002	<0.002	<0.003	
MW-20	12/02/2013	<0.001	<0.002	<0.002	<0.003	
MW-20	02/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-20	06/03/2014	<0.001	<0.002	<0.002	<0.003	
MW-20	09/23/2014	<0.001	<0.001	<0.001	<0.001	
MW-20	12/03/2014	<0.001	<0.001	<0.001	<0.003	
MW-20	02/25/2015	<0.001	<0.001	<0.001	<0.003	
MW-20	06/03/2015	<0.001	<0.001	<0.001	<0.003	

APPENDIX A
HISTORIC ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
HOBBS BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
NMWQCC Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-21	03/23/2005	<0.001	<0.002	<0.002	<0.006	
MW-21	06/08/2005	<0.001	<0.002	<0.002	<0.006	
MW-21	09/14/2005	<0.002	<0.002	<0.002	<0.006	
MW-21	12/13/2005	<0.002	<0.002	<0.002	<0.006	
MW-21	03/28/2006	<0.002	<0.002	<0.002	<0.006	
MW-21	06/21/2006	<0.002	<0.002	<0.002	<0.006	
MW-21	09/27/2006	<0.002	<0.002	<0.002	<0.006	
MW-21	12/20/2006	<0.002	<0.002	<0.002	<0.006	
MW-21	03/29/2007	<0.002	<0.002	<0.002	<0.006	
MW-21	06/27/2007	<0.002	<0.002	<0.002	<0.006	
MW-21	09/06/2007	<0.002	<0.002	<0.002	<0.006	
MW-21	11/28/2007	<0.00023	<0.002	<0.002	<0.006	
MW-21	03/06/2008	<0.002	<0.002	<0.002	<0.006	
MW-21	12/02/2008	<0.002	<0.002	<0.002	<0.006	
MW-21	03/09/2009	<0.002	<0.002	<0.002	<0.006	
MW-21	05/26/2009	<0.002	<0.002	<0.002	<0.006	
MW-21	09/21/2009	<0.002	<0.002	<0.002	<0.006	
MW-21	12/20/2009	<0.002	<0.002	<0.002	<0.006	
MW-21	03/09/2010	<0.001	<0.002	<0.002	-	
MW-21	06/14/2010	<0.001	<0.002	<0.002	-	
MW-21	09/14/2010	<0.001	<0.002	<0.002	-	
MW-21	12/07/2010	<0.001	<0.002	<0.002	-	
MW-21	03/29/2011	<0.001	<0.002	<0.002	0.00076	
MW-21	03/29/2011	<0.001	<0.002	<0.002	<0.002	
MW-21	06/21/2011	<0.001	<0.002	<0.002	<0.0020	
MW-21	06/21/2011	<0.001	<0.002	<0.002	<0.004	
MW-21	09/15/2011	<0.001	<0.002	<0.002	<0.004	
MW-21	12/06/2011	<0.001	<0.002	<0.002	<0.004	
MW-21	03/09/2012	<0.001	<0.002	<0.002	<0.004	
MW-21	06/06/2012	<0.001	<0.002	<0.002	<0.003	
MW-21	09/06/2012	<0.001	<0.002	<0.002	<0.003	
MW-21	12/05/2012	<0.001	<0.002	<0.002	<0.003	
MW-21	02/19/2013	<0.001	<0.002	<0.002	<0.003	
MW-21	06/03/2013	<0.001	<0.002	<0.002	<0.003	
MW-21	09/10/2013	<0.001	<0.002	<0.002	<0.003	
MW-21	12/02/2013	<0.001	<0.002	<0.002	<0.003	
MW-21	02/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-21	06/03/2014	<0.001	<0.002	<0.002	<0.003	
MW-21	09/22/2014	<0.001	<0.001	<0.001	<0.001	
MW-21	12/03/2014	<0.001	<0.001	<0.001	<0.003	
MW-21	02/25/2015	<0.001	<0.001	<0.001	<0.003	
MW-21	06/03/2015	<0.001	<0.001	<0.001	<0.003	

APPENDIX A
HISTORIC ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
HOBBS BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
NMWQCC Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-22	03/23/2005	0.0013	<0.002	<0.001	<0.006	
MW-22	06/08/2005	<0.001	0.0025	0.00730	<0.006	
MW-22	09/14/2005	0.0066	<0.002	<0.002	<0.006	
MW-22	12/13/2005	0.0059	<0.002	<0.002	<0.006	
MW-22	03/28/2006	0.006	<0.002	<0.002	<0.006	
MW-22	06/21/2006	0.0034	<0.002	<0.002	<0.006	
MW-22	09/27/2006	<0.002	<0.002	<0.002	<0.006	
MW-22	12/20/2006	0.00089	<0.002	<0.002	<0.006	
MW-22	03/29/2007	0.00067	<0.002	<0.002	<0.006	
MW-22	06/27/2007	0.00076	<0.002	<0.002	<0.006	
MW-22	09/06/2007	<0.002	<0.002	<0.002	<0.006	
MW-22	11/28/2007	0.001	<0.002	<0.002	<0.006	
MW-22	03/06/2008	0.0015	<0.002	<0.002	<0.006	
MW-22	12/02/2008	0.0064	<0.002	<0.002	<0.006	
MW-22	03/09/2009	0.0048	<0.002	<0.002	<0.006	
MW-22	05/26/2009	0.0046	<0.002	<0.002	<0.006	
MW-22	09/21/2009	0.0026	<0.002	<0.002	<0.006	
MW-22	12/20/2009	0.0028	<0.002	<0.002	<0.006	
MW-22	03/29/2011	0.0034	<0.002	<0.002	0.0022	
MW-22	06/21/2011	0.0041	<0.002	.0005 J	<0.004	
MW-22	09/15/2011	0.0037	<0.002	<0.002	<0.004	
MW-22	12/06/2011	0.0028	<0.002	<0.002	<0.004	
MW-22	03/09/2012	0.0034	<0.002	0.00046	<0.004	
MW-22	06/06/2012	0.0031	<0.002	0.00045	<0.003	
MW-22	09/06/2012	0.0021	<0.002	<0.002	<0.003	
MW-22	12/05/2012	0.0033	<0.002	0.00055	0.0031	
MW-22	02/19/2013	0.0046	<0.002	0.0011	0.0043	
MW-22	06/03/2013	0.0054	<0.002	0.0010	0.0046	
MW-22	09/10/2013	0.0097	<0.002	0.0029	0.0058	
MW-22	12/02/2013	0.0087	<0.002	0.0008	0.0054	
MW-22	02/27/2014	0.0122	<0.002	0.00088 J	0.0061	
MW-22	06/03/2014	0.0245	<0.002	0.0010 J	0.0055	
MW-22	09/23/2014	0.0626	<0.001	0.0019	0.0092	Duplicate B Sample Collected
MW-22 (Duplicate)	09/23/2014	0.0620	<0.001	0.0029	0.0086	
MW-22	12/03/2014	0.0764	<0.001	0.0015	0.0089	
MW-22	02/25/2015	0.0920	<0.001	<0.001	0.0084	
MW-22	06/03/2015	0.110	<0.001	<0.001	0.0067	

APPENDIX A
HISTORIC ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
HOBBS BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
NMWQCC Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-23	12/02/2008	<0.002	<0.002	<0.002	<0.006	
MW-23	03/09/2009	0.00049	<0.002	<0.002	<0.006	
MW-23	05/26/2009	<0.002	<0.002	<0.002	<0.006	
MW-23	09/21/2009	<0.002	<0.002	<0.002	<0.006	
MW-23	12/20/2009	<0.002	<0.002	<0.002	<0.006	
MW-23	03/09/2010	<0.001	<0.002	<0.002	-	
MW-23	06/14/2010	<0.001	<0.002	<0.002	-	
MW-23	09/14/2010	<0.001	<0.002	<0.002	-	
MW-23	12/07/2010	<0.001	<0.002	<0.002	-	
MW-23	03/29/2011	<0.001	<0.002	<0.002	0.00063	
MW-23	03/29/2011	<0.001	<0.002	<0.002	<0.002	
MW-23	06/21/2011	<0.001	<0.002	<0.002	<0.0020	
MW-23	06/21/2011	<0.001	<0.002	<0.002	<0.004	
MW-23	09/15/2011	<0.001	<0.002	<0.002	<0.004	
MW-23	12/06/2011	<0.001	<0.002	<0.002	<0.004	
MW-23	03/09/2012	<0.001	<0.002	<0.002	<0.004	
MW-23	06/06/2012	<0.001	<0.002	<0.002	<0.003	
MW-23	09/06/2012	<0.001	<0.002	<0.002	<0.003	
MW-23	12/05/2012	<0.001	<0.002	<0.002	<0.003	
MW-23	02/19/2013	<0.001	<0.002	<0.002	<0.003	
MW-23	06/03/2013	<0.001	<0.002	<0.002	<0.003	
MW-23	09/10/2013	<0.001	<0.002	<0.002	<0.003	
MW-23	12/02/2013	<0.001	<0.002	<0.002	<0.003	
MW-23	02/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-23	06/03/2014	<0.001	<0.002	<0.002	<0.003	
MW-23	09/22/2014	<0.001	<0.001	<0.001	<0.001	
MW-23	12/03/2014	0.0016	<0.001	0.00086 J	<0.003	
MW-23	02/25/2015	0.0084	<0.005	<0.005	<0.015	
MW-23	06/03/2015	0.0011	<0.001	<0.001	<0.003	

APPENDIX A
HISTORIC ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
HOBBS BOOSTER STATION
LEA COUNTY, NEW MEXICO

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
NMWQCC Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-24	12/02/2008	<0.002	<0.002	<0.002	<0.006	
MW-24	03/09/2009	<0.002	<0.002	<0.002	<0.006	
MW-24	05/26/2009	<0.002	<0.002	<0.002	<0.006	
MW-24	09/21/2009	<0.002	<0.002	<0.002	<0.006	
MW-24	12/20/2009	<0.002	<0.002	<0.002	<0.006	
MW-24	03/09/2010	<0.001	<0.002	<0.002	-	
MW-24	06/14/2010	<0.001	<0.002	<0.002	-	
MW-24	09/14/2010	<0.001	<0.002	<0.002	-	
MW-24	12/07/2010	<0.001	<0.002	<0.002	-	
MW-24	03/29/2011	<0.001	<0.002	<0.002	<0.006	
MW-24	03/29/2011	<0.001	<0.002	<0.002	<0.002	
MW-24	06/21/2011	<0.001	<0.002	<0.002	<0.0020	
MW-24	06/21/2011	<0.001	<0.002	<0.002	<0.004	
MW-24	09/15/2011	<0.001	<0.002	<0.002	<0.004	
MW-24	12/06/2011	<0.001	<0.002	<0.002	<0.004	
MW-24	03/09/2012	<0.001	<0.002	<0.002	<0.004	
MW-24	06/06/2012	<0.001	<0.002	<0.002	<0.003	
MW-24	09/06/2012	<0.001	<0.002	<0.002	<0.003	
MW-24	12/05/2012	<0.001	<0.002	<0.002	<0.003	
MW-24	02/19/2013	<0.001	<0.002	<0.002	<0.003	
MW-24	06/03/2013	<0.001	<0.002	<0.002	<0.003	
MW-24	09/10/2013	<0.001	<0.002	<0.002	<0.003	
MW-24	12/02/2013	<0.001	<0.002	<0.002	<0.003	
MW-24	02/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-24	06/03/2014	<0.001	<0.002	<0.002	<0.003	
MW-24	09/22/2014	<0.001	<0.001	<0.001	<0.001	
MW-24	12/03/2014	<0.001	<0.001	<0.001	<0.003	
MW-24	02/25/2015	<0.001	<0.001	<0.001	<0.003	
MW-24	06/03/2015	<0.001	<0.001	<0.001	<0.003	

**APPENDIX A
HISTORIC ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
HOBBS BOOSTER STATION
LEA COUNTY, NEW MEXICO**

Location Identification	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethylbenzene (mg/l)	Total Xylenes (mg/l)	Comments
NMWQCC Groundwater Standards (mg/L)		0.01	0.75	0.75	0.62	
MW-25	12/02/2008	<0.002	<0.002	<0.002	<0.006	
MW-25	03/09/2009	<0.002	<0.002	<0.002	<0.006	
MW-25	05/26/2009	<0.002	<0.002	<0.002	<0.006	
MW-25	09/21/2009	<0.002	<0.002	<0.002	<0.006	
MW-25	12/20/2009	<0.002	<0.002	<0.002	<0.006	
MW-25	03/09/2010	<0.001	<0.002	<0.002	-	
MW-25	06/14/2010	<0.001	<0.002	<0.002	-	
MW-25	09/14/2010	<0.001	<0.002	<0.002	-	
MW-25	12/07/2010	<0.001	<0.002	<0.002	-	
MW-25	03/29/2011	<0.001	<0.002	<0.002	0.00099	
MW-25	03/29/2011	<0.001	<0.002	<0.002	<0.002	
MW-25	06/21/2011	<0.001	<0.002	<0.002	<0.0020	
MW-25	06/21/2011	<0.001	<0.002	<0.002	<0.004	
MW-25	09/15/2011	<0.001	<0.002	<0.002	<0.004	
MW-25	12/06/2011	<0.001	<0.002	<0.002	<0.004	
MW-25	03/09/2012	<0.001	<0.002	<0.002	<0.004	
MW-25	06/06/2012	<0.001	<0.002	<0.002	<0.003	
MW-25	09/06/2012	<0.001	<0.002	<0.002	<0.003	
MW-25	12/05/2012	<0.001	<0.002	<0.002	<0.003	
MW-25	02/19/2013	<0.001	<0.002	<0.002	<0.003	
MW-25	06/03/2013	<0.001	<0.002	<0.002	<0.003	
MW-25	09/10/2013	<0.001	<0.002	<0.002	<0.003	
MW-25	12/02/2013	<0.001	<0.002	<0.002	<0.003	
MW-25	02/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-25	06/03/2014	<0.001	<0.002	<0.002	<0.003	
MW-25	09/22/2014	<0.001	<0.001	<0.001	<0.001	
MW-25	12/03/2014	<0.001	<0.001	<0.001	<0.003	
MW-25	02/25/2015	<0.001	<0.001	<0.001	<0.003	
MW-25	06/03/2015	<0.001	<0.001	<0.001	<0.003	
Trip Blank	06/03/2014	<0.001	<0.002	<0.002	<0.003	
Trip Blank	09/22/2014	<0.001	<0.001	<0.001	<0.001	
Trip Blank	12/03/2014	<0.001	<0.001	<0.001	<0.003	
Trip Blank	02/25/2015	<0.001	<0.001	<0.001	<0.003	
Trip Blank	06/03/2015	<0.001	<0.001	<0.001	<0.003	

Notes:

Bold values indicate an exceedance of the NMWQCC groundwater standards for the Site.

NMWQCC = New Mexico Water Quality Control Commission

LNAPL = Light Non-Aqueous Phase Liquid

J = Estimated Value

NS = Not Sampled

mg/L = milligrams per liter

NM - Not Measured

Appendix B

Laboratory Analytical Report

- ALS Job #: HS15060317



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

June 17, 2015

Don Baggus
Tasman Geosciences
5690 Webster Street
Arvada, CO 80002

Work Order: **HS15060317**

Laboratory Results for: **Former Hobbs Booster Station**

Dear Don,

ALS Environmental received 13 sample(s) on Jun 06, 2015 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink that reads "Sonia West".

Generated By: Dayna.Fisher
Sonia West
Project Manager

Client: Tasman Geosciences
Project: Former Hobbs Booster Station
Work Order: HS15060317

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS15060317-01	TB-052215-32	Water		03-Jun-2015 07:00	06-Jun-2015 09:17	☐
HS15060317-02	MW-14-060315	Groundwater		03-Jun-2015 11:00	06-Jun-2015 09:17	☐
HS15060317-03	MW-15-060315	Groundwater		03-Jun-2015 11:15	06-Jun-2015 09:17	☐
HS15060317-04	MW-16-060315	Groundwater		03-Jun-2015 11:30	06-Jun-2015 09:17	☐
HS15060317-05	MW-19-060315	Groundwater		03-Jun-2015 08:45	06-Jun-2015 09:17	☐
HS15060317-06	MW-19D-060315	Groundwater		03-Jun-2015 08:15	06-Jun-2015 09:17	☐
HS15060317-07	MW-20-060315	Groundwater		03-Jun-2015 09:15	06-Jun-2015 09:17	☐
HS15060317-08	MW-21-060315	Groundwater		03-Jun-2015 09:45	06-Jun-2015 09:17	☐
HS15060317-09	MW-22-060315	Groundwater		03-Jun-2015 10:00	06-Jun-2015 09:17	☐
HS15060317-10	MW-23-060315	Groundwater		03-Jun-2015 10:15	06-Jun-2015 09:17	☐
HS15060317-11	MW-24-060315	Groundwater		03-Jun-2015 10:30	06-Jun-2015 09:17	☐
HS15060317-12	MW-25-060315	Groundwater		03-Jun-2015 10:45	06-Jun-2015 09:17	☐
HS15060317-13	Duplicate-060315	Groundwater		03-Jun-2015 00:00	06-Jun-2015 09:17	☐

Client: Tasman Geosciences
Project: Former Hobbs Booster Station
Work Order: HS15060317

CASE NARRATIVE

GCMS Volatiles by Method SW8260

Batch ID: R256249

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R256066

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Batch ID: R256061

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.
-

Client: Tasman Geosciences
Project: Former Hobbs Booster Station
Sample ID: TB-052215-32
Collection Date: 03-Jun-2015 07:00

ANALYTICAL REPORT

WorkOrder:HS15060317
Lab ID:HS15060317-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	ND		0.0010	mg/L	1	11-Jun-2015 20:13
Toluene	ND		0.0010	mg/L	1	11-Jun-2015 20:13
Ethylbenzene	ND		0.0010	mg/L	1	11-Jun-2015 20:13
Xylenes, Total	ND		0.0030	mg/L	1	11-Jun-2015 20:13
Surr: 1,2-Dichloroethane-d4	105		71-125	%REC	1	11-Jun-2015 20:13
Surr: 4-Bromofluorobenzene	105		70-125	%REC	1	11-Jun-2015 20:13
Surr: Dibromofluoromethane	108		74-125	%REC	1	11-Jun-2015 20:13
Surr: Toluene-d8	120		75-125	%REC	1	11-Jun-2015 20:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Tasman Geosciences
Project: Former Hobbs Booster Station
Sample ID: MW-14-060315
Collection Date: 03-Jun-2015 11:00

ANALYTICAL REPORT

WorkOrder:HS15060317
Lab ID:HS15060317-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	0.0077		0.0010	mg/L	1	11-Jun-2015 22:11
Toluene	ND		0.0010	mg/L	1	11-Jun-2015 22:11
Ethylbenzene	ND		0.0010	mg/L	1	11-Jun-2015 22:11
Xylenes, Total	ND		0.0030	mg/L	1	11-Jun-2015 22:11
Surr: 1,2-Dichloroethane-d4	87.3		71-125	%REC	1	11-Jun-2015 22:11
Surr: 4-Bromofluorobenzene	94.2		70-125	%REC	1	11-Jun-2015 22:11
Surr: Dibromofluoromethane	100		74-125	%REC	1	11-Jun-2015 22:11
Surr: Toluene-d8	101		75-125	%REC	1	11-Jun-2015 22:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Tasman Geosciences
Project: Former Hobbs Booster Station
Sample ID: MW-15-060315
Collection Date: 03-Jun-2015 11:15

ANALYTICAL REPORT

WorkOrder:HS15060317
Lab ID:HS15060317-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	ND		0.0010	mg/L	1	11-Jun-2015 20:41
Toluene	ND		0.0010	mg/L	1	11-Jun-2015 20:41
Ethylbenzene	ND		0.0010	mg/L	1	11-Jun-2015 20:41
Xylenes, Total	ND		0.0030	mg/L	1	11-Jun-2015 20:41
Surr: 1,2-Dichloroethane-d4	105		71-125	%REC	1	11-Jun-2015 20:41
Surr: 4-Bromofluorobenzene	107		70-125	%REC	1	11-Jun-2015 20:41
Surr: Dibromofluoromethane	109		74-125	%REC	1	11-Jun-2015 20:41
Surr: Toluene-d8	115		75-125	%REC	1	11-Jun-2015 20:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Tasman Geosciences
Project: Former Hobbs Booster Station
Sample ID: MW-16-060315
Collection Date: 03-Jun-2015 11:30

ANALYTICAL REPORT

WorkOrder:HS15060317
Lab ID:HS15060317-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	ND		0.0010	mg/L	1	11-Jun-2015 21:10
Toluene	ND		0.0010	mg/L	1	11-Jun-2015 21:10
Ethylbenzene	ND		0.0010	mg/L	1	11-Jun-2015 21:10
Xylenes, Total	ND		0.0030	mg/L	1	11-Jun-2015 21:10
Surr: 1,2-Dichloroethane-d4	106		71-125	%REC	1	11-Jun-2015 21:10
Surr: 4-Bromofluorobenzene	107		70-125	%REC	1	11-Jun-2015 21:10
Surr: Dibromofluoromethane	106		74-125	%REC	1	11-Jun-2015 21:10
Surr: Toluene-d8	118		75-125	%REC	1	11-Jun-2015 21:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Tasman Geosciences
Project: Former Hobbs Booster Station
Sample ID: MW-19-060315
Collection Date: 03-Jun-2015 08:45

ANALYTICAL REPORT

WorkOrder:HS15060317
Lab ID:HS15060317-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	ND		0.0010	mg/L	1	11-Jun-2015 21:38
Toluene	ND		0.0010	mg/L	1	11-Jun-2015 21:38
Ethylbenzene	ND		0.0010	mg/L	1	11-Jun-2015 21:38
Xylenes, Total	ND		0.0030	mg/L	1	11-Jun-2015 21:38
Surr: 1,2-Dichloroethane-d4	110		71-125	%REC	1	11-Jun-2015 21:38
Surr: 4-Bromofluorobenzene	106		70-125	%REC	1	11-Jun-2015 21:38
Surr: Dibromofluoromethane	111		74-125	%REC	1	11-Jun-2015 21:38
Surr: Toluene-d8	119		75-125	%REC	1	11-Jun-2015 21:38

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Tasman Geosciences
Project: Former Hobbs Booster Station
Sample ID: MW-19D-060315
Collection Date: 03-Jun-2015 08:15

ANALYTICAL REPORT

WorkOrder:HS15060317
Lab ID:HS15060317-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	ND		0.0010	mg/L	1	11-Jun-2015 17:49
Toluene	ND		0.0010	mg/L	1	11-Jun-2015 17:49
Ethylbenzene	ND		0.0010	mg/L	1	11-Jun-2015 17:49
Xylenes, Total	ND		0.0030	mg/L	1	11-Jun-2015 17:49
Surr: 1,2-Dichloroethane-d4	106		71-125	%REC	1	11-Jun-2015 17:49
Surr: 4-Bromofluorobenzene	107		70-125	%REC	1	11-Jun-2015 17:49
Surr: Dibromofluoromethane	107		74-125	%REC	1	11-Jun-2015 17:49
Surr: Toluene-d8	119		75-125	%REC	1	11-Jun-2015 17:49

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Tasman Geosciences
Project: Former Hobbs Booster Station
Sample ID: MW-20-060315
Collection Date: 03-Jun-2015 09:15

ANALYTICAL REPORT

WorkOrder:HS15060317
Lab ID:HS15060317-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	ND		0.0010	mg/L	1	11-Jun-2015 22:06
Toluene	ND		0.0010	mg/L	1	11-Jun-2015 22:06
Ethylbenzene	ND		0.0010	mg/L	1	11-Jun-2015 22:06
Xylenes, Total	ND		0.0030	mg/L	1	11-Jun-2015 22:06
Surr: 1,2-Dichloroethane-d4	103		71-125	%REC	1	11-Jun-2015 22:06
Surr: 4-Bromofluorobenzene	106		70-125	%REC	1	11-Jun-2015 22:06
Surr: Dibromofluoromethane	106		74-125	%REC	1	11-Jun-2015 22:06
Surr: Toluene-d8	118		75-125	%REC	1	11-Jun-2015 22:06

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Tasman Geosciences
 Project: Former Hobbs Booster Station
 Sample ID: MW-21-060315
 Collection Date: 03-Jun-2015 09:45

ANALYTICAL REPORT

WorkOrder:HS15060317
 Lab ID:HS15060317-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	ND		0.0010	mg/L	1	11-Jun-2015 22:34
Toluene	ND		0.0010	mg/L	1	11-Jun-2015 22:34
Ethylbenzene	ND		0.0010	mg/L	1	11-Jun-2015 22:34
Xylenes, Total	ND		0.0030	mg/L	1	11-Jun-2015 22:34
<i>Surr: 1,2-Dichloroethane-d4</i>	106		71-125	%REC	1	11-Jun-2015 22:34
<i>Surr: 4-Bromofluorobenzene</i>	106		70-125	%REC	1	11-Jun-2015 22:34
<i>Surr: Dibromofluoromethane</i>	109		74-125	%REC	1	11-Jun-2015 22:34
<i>Surr: Toluene-d8</i>	119		75-125	%REC	1	11-Jun-2015 22:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Tasman Geosciences
 Project: Former Hobbs Booster Station
 Sample ID: MW-22-060315
 Collection Date: 03-Jun-2015 10:00

ANALYTICAL REPORT

WorkOrder:HS15060317
 Lab ID:HS15060317-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	0.11		0.0010	mg/L	1	11-Jun-2015 23:02
Toluene	ND		0.0010	mg/L	1	11-Jun-2015 23:02
Ethylbenzene	ND		0.0010	mg/L	1	11-Jun-2015 23:02
Xylenes, Total	0.0067		0.0030	mg/L	1	11-Jun-2015 23:02
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>105</i>		<i>71-125</i>	<i>%REC</i>	<i>1</i>	<i>11-Jun-2015 23:02</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>111</i>		<i>70-125</i>	<i>%REC</i>	<i>1</i>	<i>11-Jun-2015 23:02</i>
<i>Surr: Dibromofluoromethane</i>	<i>106</i>		<i>74-125</i>	<i>%REC</i>	<i>1</i>	<i>11-Jun-2015 23:02</i>
<i>Surr: Toluene-d8</i>	<i>121</i>		<i>75-125</i>	<i>%REC</i>	<i>1</i>	<i>11-Jun-2015 23:02</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Tasman Geosciences
 Project: Former Hobbs Booster Station
 Sample ID: MW-23-060315
 Collection Date: 03-Jun-2015 10:15

ANALYTICAL REPORT

WorkOrder:HS15060317
 Lab ID:HS15060317-10
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	0.0011		0.0010	mg/L	1	11-Jun-2015 22:39
Toluene	ND		0.0010	mg/L	1	11-Jun-2015 22:39
Ethylbenzene	ND		0.0010	mg/L	1	11-Jun-2015 22:39
Xylenes, Total	ND		0.0030	mg/L	1	11-Jun-2015 22:39
Surr: 1,2-Dichloroethane-d4	88.2		71-125	%REC	1	11-Jun-2015 22:39
Surr: 4-Bromofluorobenzene	93.4		70-125	%REC	1	11-Jun-2015 22:39
Surr: Dibromofluoromethane	96.9		74-125	%REC	1	11-Jun-2015 22:39
Surr: Toluene-d8	98.5		75-125	%REC	1	11-Jun-2015 22:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Tasman Geosciences
Project: Former Hobbs Booster Station
Sample ID: MW-24-060315
Collection Date: 03-Jun-2015 10:30

ANALYTICAL REPORT

WorkOrder:HS15060317
Lab ID:HS15060317-11
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	ND		0.0010	mg/L	1	11-Jun-2015 23:33
Toluene	ND		0.0010	mg/L	1	11-Jun-2015 23:33
Ethylbenzene	ND		0.0010	mg/L	1	11-Jun-2015 23:33
Xylenes, Total	ND		0.0030	mg/L	1	11-Jun-2015 23:33
Surr: 1,2-Dichloroethane-d4	105		71-125	%REC	1	11-Jun-2015 23:33
Surr: 4-Bromofluorobenzene	106		70-125	%REC	1	11-Jun-2015 23:33
Surr: Dibromofluoromethane	110		74-125	%REC	1	11-Jun-2015 23:33
Surr: Toluene-d8	118		75-125	%REC	1	11-Jun-2015 23:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Tasman Geosciences
Project: Former Hobbs Booster Station
Sample ID: MW-25-060315
Collection Date: 03-Jun-2015 10:45

ANALYTICAL REPORT

WorkOrder:HS15060317
Lab ID:HS15060317-12
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	ND		0.0010	mg/L	1	12-Jun-2015 00:00
Toluene	ND		0.0010	mg/L	1	12-Jun-2015 00:00
Ethylbenzene	ND		0.0010	mg/L	1	12-Jun-2015 00:00
Xylenes, Total	ND		0.0030	mg/L	1	12-Jun-2015 00:00
Surr: 1,2-Dichloroethane-d4	106		71-125	%REC	1	12-Jun-2015 00:00
Surr: 4-Bromofluorobenzene	105		70-125	%REC	1	12-Jun-2015 00:00
Surr: Dibromofluoromethane	105		74-125	%REC	1	12-Jun-2015 00:00
Surr: Toluene-d8	118		75-125	%REC	1	12-Jun-2015 00:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Tasman Geosciences
Project: Former Hobbs Booster Station
Sample ID: Duplicate-060315
Collection Date: 03-Jun-2015 00:00

ANALYTICAL REPORT

WorkOrder:HS15060317
Lab ID:HS15060317-13
Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP		
Benzene	0.061		0.0010	mg/L	1	16-Jun-2015 15:03
Toluene	ND		0.0010	mg/L	1	16-Jun-2015 15:03
Ethylbenzene	ND		0.0010	mg/L	1	16-Jun-2015 15:03
Xylenes, Total	0.0047		0.0030	mg/L	1	16-Jun-2015 15:03
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>113</i>		<i>71-125</i>	<i>%REC</i>	<i>1</i>	<i>16-Jun-2015 15:03</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>101</i>		<i>70-125</i>	<i>%REC</i>	<i>1</i>	<i>16-Jun-2015 15:03</i>
<i>Surr: Dibromofluoromethane</i>	<i>113</i>		<i>74-125</i>	<i>%REC</i>	<i>1</i>	<i>16-Jun-2015 15:03</i>
<i>Surr: Toluene-d8</i>	<i>110</i>		<i>75-125</i>	<i>%REC</i>	<i>1</i>	<i>16-Jun-2015 15:03</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Tasman Geosciences
Project: Former Hobbs Booster Station
WorkOrder: HS15060317

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R256061	Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater		
HS15060317-03	MW-15-060315	03 Jun 2015 11:15			11 Jun 2015 20:41	1
HS15060317-04	MW-16-060315	03 Jun 2015 11:30			11 Jun 2015 21:10	1
HS15060317-05	MW-19-060315	03 Jun 2015 08:45			11 Jun 2015 21:38	1
HS15060317-06	MW-19D-060315	03 Jun 2015 08:15			11 Jun 2015 17:49	1
HS15060317-07	MW-20-060315	03 Jun 2015 09:15			11 Jun 2015 22:06	1
HS15060317-08	MW-21-060315	03 Jun 2015 09:45			11 Jun 2015 22:34	1
HS15060317-09	MW-22-060315	03 Jun 2015 10:00			11 Jun 2015 23:02	1
HS15060317-11	MW-24-060315	03 Jun 2015 10:30			11 Jun 2015 23:33	1
HS15060317-12	MW-25-060315	03 Jun 2015 10:45			12 Jun 2015 00:00	1
Batch ID R256061	Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water		
HS15060317-01	TB-052215-32	03 Jun 2015 07:00			11 Jun 2015 20:13	1
Batch ID R256066	Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater		
HS15060317-02	MW-14-060315	03 Jun 2015 11:00			11 Jun 2015 22:11	1
HS15060317-10	MW-23-060315	03 Jun 2015 10:15			11 Jun 2015 22:39	1
Batch ID R256249	Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater		
HS15060317-13	Duplicate-060315	03 Jun 2015 00:00			16 Jun 2015 15:03	1

Client: Tasman Geosciences
Project: Former Hobbs Booster Station
WorkOrder: HS15060317

QC BATCH REPORT

Batch ID: R256061		Instrument: VOA4		Method: SW8260					
MBLK	Sample ID: VBLKW-150611	Units: ug/L		Analysis Date: 11-Jun-2015 14:54					
Client ID:	Run ID: VOA4_256061	SeqNo: 3317331		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	ND	1.0							
Ethylbenzene	ND	1.0							
Toluene	ND	1.0							
Xylenes, Total	ND	3.0							
Surr: 1,2-Dichloroethane-d4	53.45	1.0	50	0	107	71 - 125			
Surr: 4-Bromofluorobenzene	52.61	1.0	50	0	105	70 - 125			
Surr: Dibromofluoromethane	54.27	1.0	50	0	109	74 - 125			
Surr: Toluene-d8	60.2	1.0	50	0	120	75 - 125			

LCS	Sample ID: VLCSW-150611	Units: ug/L		Analysis Date: 11-Jun-2015 13:58					
Client ID:	Run ID: VOA4_256061	SeqNo: 3317330		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	51.49	1.0	50	0	103	80 - 120			
Ethylbenzene	51.12	1.0	50	0	102	80 - 120			
Toluene	51.77	1.0	50	0	104	75 - 121			
Xylenes, Total	153.7	3.0	150	0	102	79 - 124			
Surr: 1,2-Dichloroethane-d4	52.92	1.0	50	0	106	71 - 125			
Surr: 4-Bromofluorobenzene	54.65	1.0	50	0	109	70 - 125			
Surr: Dibromofluoromethane	54.37	1.0	50	0	109	74 - 125			
Surr: Toluene-d8	60.05	1.0	50	0	120	75 - 125			

MS	Sample ID: HS15060317-06MS	Units: ug/L		Analysis Date: 11-Jun-2015 18:18					
Client ID: MW-19D-060315	Run ID: VOA4_256061	SeqNo: 3317338		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	48.25	1.0	50	0.4982	95.5	80 - 120			
Ethylbenzene	49.41	1.0	50	0.532	97.8	80 - 120			
Toluene	49.17	1.0	50	0	98.3	75 - 121			
Xylenes, Total	144.5	3.0	150	0	96.3	80 - 124			
Surr: 1,2-Dichloroethane-d4	53.21	1.0	50	0	106	71 - 125			
Surr: 4-Bromofluorobenzene	55.54	1.0	50	0	111	70 - 125			
Surr: Dibromofluoromethane	54.68	1.0	50	0	109	74 - 125			
Surr: Toluene-d8	59.02	1.0	50	0	118	75 - 125			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Tasman Geosciences
Project: Former Hobbs Booster Station
WorkOrder: HS15060317

QC BATCH REPORT

Batch ID: R256061		Instrument: VOA4		Method: SW8260					
MSD		Sample ID: HS15060317-06MSD		Units: ug/L		Analysis Date: 11-Jun-2015 18:48			
Client ID: MW-19D-060315		Run ID: VOA4_256061		SeqNo: 3317339		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	48.12	1.0	50	0.4982	95.2	80 - 120	48.25	0.273	20
Ethylbenzene	49.88	1.0	50	0.532	98.7	80 - 120	49.41	0.935	20
Toluene	50.84	1.0	50	0	102	75 - 121	49.17	3.33	20
Xylenes, Total	148.1	3.0	150	0	98.8	80 - 124	144.5	2.49	20
Surr: 1,2-Dichloroethane-d4	52.89	1.0	50	0	106	71 - 125	53.21	0.609	20
Surr: 4-Bromofluorobenzene	55.96	1.0	50	0	112	70 - 125	55.54	0.752	20
Surr: Dibromofluoromethane	55.66	1.0	50	0	111	74 - 125	54.68	1.78	20
Surr: Toluene-d8	60.03	1.0	50	0	120	75 - 125	59.02	1.7	20
The following samples were analyzed in this batch:		HS15060317-01		HS15060317-03		HS15060317-04		HS15060317-05	
		HS15060317-06		HS15060317-07		HS15060317-08		HS15060317-09	
		HS15060317-11		HS15060317-12					

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Tasman Geosciences
Project: Former Hobbs Booster Station
WorkOrder: HS15060317

QC BATCH REPORT

Batch ID: R256066		Instrument: VOA2		Method: SW8260					
MBLK	Sample ID: VBLKW-150611	Units: ug/L		Analysis Date: 11-Jun-2015 13:05					
Client ID:	Run ID: VOA2_256066	SeqNo: 3317433		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	ND	1.0							
Ethylbenzene	ND	1.0							
Toluene	ND	1.0							
Xylenes, Total	ND	3.0							
Surr: 1,2-Dichloroethane-d4	45.33	1.0	50	0	90.7	71 - 125			
Surr: 4-Bromofluorobenzene	46.44	1.0	50	0	92.9	70 - 125			
Surr: Dibromofluoromethane	50.66	1.0	50	0	101	74 - 125			
Surr: Toluene-d8	48.5	1.0	50	0	97.0	75 - 125			

LCS	Sample ID: VLCSW-150611	Units: ug/L		Analysis Date: 11-Jun-2015 12:13					
Client ID:	Run ID: VOA2_256066	SeqNo: 3317432		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	47.87	1.0	50	0	95.7	80 - 120			
Ethylbenzene	48.2	1.0	50	0	96.4	80 - 120			
Toluene	45.55	1.0	50	0	91.1	75 - 121			
Xylenes, Total	143.8	3.0	150	0	95.8	79 - 124			
Surr: 1,2-Dichloroethane-d4	44.09	1.0	50	0	88.2	71 - 125			
Surr: 4-Bromofluorobenzene	48.26	1.0	50	0	96.5	70 - 125			
Surr: Dibromofluoromethane	49.48	1.0	50	0	99.0	74 - 125			
Surr: Toluene-d8	46.53	1.0	50	0	93.1	75 - 125			

MS	Sample ID: HS15060315-02MS	Units: ug/L		Analysis Date: 11-Jun-2015 18:03					
Client ID:	Run ID: VOA2_256066	SeqNo: 3317444		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	44.05	1.0	50	0	88.1	80 - 120			
Ethylbenzene	48.22	1.0	50	0	96.4	80 - 120			
Toluene	43.93	1.0	50	0	87.9	75 - 121			
Xylenes, Total	139.3	3.0	150	0	92.8	80 - 124			
Surr: 1,2-Dichloroethane-d4	44.02	1.0	50	0	88.0	71 - 125			
Surr: 4-Bromofluorobenzene	48.43	1.0	50	0	96.9	70 - 125			
Surr: Dibromofluoromethane	49.52	1.0	50	0	99.0	74 - 125			
Surr: Toluene-d8	46.58	1.0	50	0	93.2	75 - 125			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Tasman Geosciences
Project: Former Hobbs Booster Station
WorkOrder: HS15060317

QC BATCH REPORT

Batch ID: R256066		Instrument: VOA2		Method: SW8260						
MSD		Sample ID: HS15060315-02MSD		Units: ug/L		Analysis Date: 11-Jun-2015 18:32				
Client ID:		Run ID: VOA2_256066		SeqNo: 3317445		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	44.33	1.0	50	0	88.7	80 - 120	44.05	0.64	20	
Ethylbenzene	48.98	1.0	50	0	98.0	80 - 120	48.22	1.58	20	
Toluene	44.36	1.0	50	0	88.7	75 - 121	43.93	0.974	20	
Xylenes, Total	140.9	3.0	150	0	94.0	80 - 124	139.3	1.2	20	
Surr: 1,2-Dichloroethane-d4	45.68	1.0	50	0	91.4	71 - 125	44.02	3.71	20	
Surr: 4-Bromofluorobenzene	48.06	1.0	50	0	96.1	70 - 125	48.43	0.769	20	
Surr: Dibromofluoromethane	51.42	1.0	50	0	103	74 - 125	49.52	3.76	20	
Surr: Toluene-d8	47.66	1.0	50	0	95.3	75 - 125	46.58	2.28	20	
The following samples were analyzed in this batch:										
			HS15060317-02 HS15060317-10							

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Tasman Geosciences
Project: Former Hobbs Booster Station
WorkOrder: HS15060317

QC BATCH REPORT

Batch ID: R256249		Instrument: VOA4		Method: SW8260					
MBLK	Sample ID: VBLKW-150616	Units: ug/L		Analysis Date: 16-Jun-2015 11:11					
Client ID:	Run ID: VOA4_256249	SeqNo: 3321528		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	ND	1.0							
Ethylbenzene	ND	1.0							
Toluene	ND	1.0							
Xylenes, Total	ND	3.0							
Surr: 1,2-Dichloroethane-d4	57.65	1.0	50	0	115	71 - 125			
Surr: 4-Bromofluorobenzene	43.09	1.0	50	0	86.2	70 - 125			
Surr: Dibromofluoromethane	57.27	1.0	50	0	115	74 - 125			
Surr: Toluene-d8	49.36	1.0	50	0	98.7	75 - 125			

LCS	Sample ID: VLCSW-150616	Units: ug/L		Analysis Date: 16-Jun-2015 10:20					
Client ID:	Run ID: VOA4_256249	SeqNo: 3321527		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	51.55	1.0	50	0	103	80 - 120			
Ethylbenzene	50.19	1.0	50	0	100	80 - 120			
Toluene	50.97	1.0	50	0	102	75 - 121			
Xylenes, Total	153.7	3.0	150	0	102	79 - 124			
Surr: 1,2-Dichloroethane-d4	50.91	1.0	50	0	102	71 - 125			
Surr: 4-Bromofluorobenzene	51.2	1.0	50	0	102	70 - 125			
Surr: Dibromofluoromethane	54.48	1.0	50	0	109	74 - 125			
Surr: Toluene-d8	54	1.0	50	0	108	75 - 125			

MS	Sample ID: HS15060131-05MS	Units: ug/L		Analysis Date: 16-Jun-2015 12:03					
Client ID:	Run ID: VOA4_256249	SeqNo: 3321530		PrepDate:		DF: 25			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	1245	25	1250	189.1	84.5	80 - 120			
Ethylbenzene	3181	25	1250	1920	101	80 - 120			
Toluene	1268	25	1250	17.36	100	75 - 121			
Xylenes, Total	3898	75	3750	113.2	101	80 - 124			
Surr: 1,2-Dichloroethane-d4	1418	25	1250	0	113	71 - 125			
Surr: 4-Bromofluorobenzene	1290	25	1250	0	103	70 - 125			
Surr: Dibromofluoromethane	1487	25	1250	0	119	74 - 125			
Surr: Toluene-d8	1368	25	1250	0	109	75 - 125			

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Tasman Geosciences
Project: Former Hobbs Booster Station
WorkOrder: HS15060317

QC BATCH REPORT

Batch ID: R256249		Instrument: VOA4		Method: SW8260						
MSD		Sample ID: HS15060131-05MSD		Units: ug/L		Analysis Date: 16-Jun-2015 12:29				
Client ID:		Run ID: VOA4_256249		SeqNo: 3321531		PrepDate:		DF: 25		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1380	25	1250	189.1	95.3	80 - 120	1245	10.3	20	
Ethylbenzene	3094	25	1250	1920	93.9	80 - 120	3181	2.75	20	
Toluene	1365	25	1250	17.36	108	75 - 121	1268	7.35	20	
Xylenes, Total	3763	75	3750	113.2	97.3	80 - 124	3898	3.52	20	
Surr: 1,2-Dichloroethane-d4	1422	25	1250	0	114	71 - 125	1418	0.291	20	
Surr: 4-Bromofluorobenzene	1316	25	1250	0	105	70 - 125	1290	1.99	20	
Surr: Dibromofluoromethane	1429	25	1250	0	114	74 - 125	1487	3.94	20	
Surr: Toluene-d8	1506	25	1250	0	120	75 - 125	1368	9.58	20	

The following samples were analyzed in this batch: HS15060317-13

Client: Tasman Geosciences
Project: Former Hobbs Booster Station
WorkOrder: HS15060317

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	15-024-0	27-Mar-2016
California	2919	31-Jul-2016
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003622	09-May-2016
Kansas	E-10352 2014-2015	31-Jul-2015
Louisiana	03087 2014/2015	30-Jun-2015
North Carolina	624 - 2015	31-Dec-2015
Oklahoma	2014-128	31-Aug-2015
Texas	T104704231-15-15	30-Apr-2016

Client: Tasman Geosciences
Project: Former Hobbs Booster Station
Work Order: HS15060317

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS15060317-01	TB-052215-32	Login	6/6/2015 2:47:39 PM	CGG	VW-3
HS15060317-02	MW-14-060315	Login	6/6/2015 2:47:39 PM	CGG	VW-3
HS15060317-03	MW-15-060315	Login	6/6/2015 2:47:39 PM	CGG	VW-3
HS15060317-04	MW-16-060315	Login	6/6/2015 2:47:39 PM	CGG	VW-3
HS15060317-05	MW-19-060315	Login	6/6/2015 2:47:39 PM	CGG	VW-3
HS15060317-06	MW-19D-060315	Login	6/6/2015 2:47:39 PM	CGG	VW-3
HS15060317-07	MW-20-060315	Login	6/6/2015 2:47:39 PM	CGG	VW-3
HS15060317-08	MW-21-060315	Login	6/6/2015 2:47:39 PM	CGG	VW-3
HS15060317-09	MW-22-060315	Login	6/6/2015 2:47:39 PM	CGG	VW-3
HS15060317-10	MW-23-060315	Login	6/6/2015 2:47:39 PM	CGG	VW-3
HS15060317-11	MW-24-060315	Login	6/6/2015 2:47:39 PM	CGG	VW-3
HS15060317-12	MW-25-060315	Login	6/6/2015 2:47:39 PM	CGG	VW-3
HS15060317-13	Duplicate-060315	Login	6/6/2015 2:47:39 PM	CGG	VW-3

Sample Receipt Checklist

Client Name: Tasman Geosciences

Date/Time Received: **06-Jun-2015 09:17**

Work Order: HS15060317

Received by: **CGG**

Checklist completed by:	<u>Corey Grandits</u>	6-Jun-2015	Reviewed by:	<u>Sonia West</u>	9-Jun-2015
	eSignature	Date		eSignature	Date

Matrices: **Water**Carrier name: **FedEx Priority Overnight**

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	

Temperature(s)/Thermometer(s):	2.4C/2.9C c/uc	5
Cooler(s)/Kit(s):	5074	
Date/Time sample(s) sent to storage:	06/06/2015 15:00	
Water - VOA vials have zero headspace?	Yes ☒	No ☐ No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐ N/A ☒
pH adjusted?	Yes ☐	No ☐ N/A ☒
pH adjusted by:		

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By: 0

Regarding:

Comments:

Corrective Action:



Environmental

Cincinnati, OH
+1 513 733 5336

Everett, WA
+1 425 356 2600

Fort Collins, CO
+1 970 490 1511

Holland, MI
+1 616 399 6070

Chain of Custody Form

Page ____ of ____

COC ID: 104544

HS15060317

Tasman Geosciences
Former Hobbs Booster Station



Customer Information			Project Information			ALS Project Manager:												
Purchase Order			Project Name	Former Hobbs Booster Station		A												
Work Order			Project Number	B		B												
Company Name	Tasman Geosciences		Bill To Company	DCP Midstream		C												
Send Report To	Brian Humphrey		Invoice Attn	Steve Weathers		D												
Address			Address			E												
City/State/Zip			City/State/Zip			F												
Phone	720633 8143		Phone			G												
Fax			Fax			H												
e-Mail Address	bhumphrey@tasman-geo.com		e-Mail Address			I												
						J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Trip blank	06-03-15	07:00	DI	HCl/ICE	2	2										
2	MW-14-060315	"	11:00	GW	"	3	3										
3	MW-15-060315	"	11:15	"	"	3	3										
4	MW-16-060315	"	11:30	"	"	3	3										
5	MW-19-060315	"	08:45	"	"	3	3										
6	MW-19D-060315	"	08:15	"	"	3	3										
7	MW-20-060315	"	09:15	"	"	3	3										
8	MW-21-060315	"	09:45	"	"	3	3										
9	MW-22-060315	"	10:00	"	"	3	3										
10	MW-23-060315	"	10:15	"	"	3	3										

Sampler(s) Please Print & Sign			Shipment Method		Required Turnaround Time: (Check Box)			Results Due Date:		
Relinquished By: Relinquished by: Logged by (Laboratory): Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035			Date: 06-05-15 Time: 10:00 Date: Time: Date: Time:		Received by: FEDEX Received by (Laboratory): 6/6/15 09:17 Checked by (Laboratory): Cooler ID: 5074 Cooler Temp: 24 QC Package: (Check One Box Below) CP=0.5			Notes: Notes:		

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document.

Copyright 2011 by ALS Environmental.



Environmental

Cincinnati, OH
+1 513 733 5336

Everett, WA
+1 425 356 2600

Fort Collins, CO
+1 970 490 1511

Holland, MI
+1 616 399 6070

Chain of Custody Form

Page ____ of ____

COC ID: 104543

Houston, TX
+1 281 530 5656

Middletown, PA
+1 717 944 5541

Spring City, PA
+1 610 948 4903

Salt Lake City, UT
+1 801 266 7700

South Charleston, WV
+1 304 356 3168

York, PA
+1 717 505 5280

Customer Information		Project Information		Parameter/Method Request for Analysis															
Purchase Order		Project Name	Former Hobbs Booster Station	BTEX (8260)															
Work Order		Project Number		B															
Company Name	Tadman Greosciences	Bill To Company	DCP midstream	C															
Send Report To	Brian Humphrey	Invoice Attn	Steve Weather	D															
Address		Address		E															
City/State/Zip		City/State/Zip		F															
Phone	7206335143	Phone		G															
Fax		Fax		H															
e-Mail Address	bhumphrey@tadman-gre.com	e-Mail Address		I															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	MW-24-060315	06-03-15	10:30	GW	AC/ICE	3	3												
2	MW-25-060315	"	10:45	GW	"	3	3												
3	Duplicate 060315	"		GW	"	3	3												
4																			
5																			
6																			
7																			
8																			
9																			
10																			
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)										Results Due Date:					
Relinquished by:		Date: 06-05-15	Time: 10:00	Received by:				Notes:											
Relinquished by:		Date:	Time:	Received by (Laboratory):				Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)									
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):				5074	UL										
								125	2.4										
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035																			

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.

Copyright 2011 by ALS Environmental.


ALS Environmental
 10450 Stancliff Rd., Suite 210
 Houston, Texas 77099
 Tel. +1 281 530-5656
 Fax. +1 281 530-5887

CUSTODY SEAL
 Date: 06/05/18 Time: 10:00
 Name: ELUS Billingsley
 Company: ELUS

Seal Broken By: _____
 Date: _____

CSH

6/6

SATURDAY 12:00P
 PRIORITY OVERNIGHT
 TRK# 8071 0710 5796
 0215
XO SGRA **9074** 77099
 TX-US IAH

