Second Half 2016 Semi-Annual Groundwater Monitoring Summary Report

Eldridge Ranch
Lea County, New Mexico
AP-33

Prepared for:

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

Prepared by:

6899 Pecos Street, Unit C
Denver, CO 80221

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1. Introduction

This report summarizes groundwater monitoring and remediation activities conducted during the second half of 2016 at the Eldridge Ranch Pipeline Release (Site) in Lea County, New Mexico (Figure 1). Tasman Geosciences (Tasman) performed these activities on behalf of DCP Midstream (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 collected on September 27, 2016, 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 Unit P, Section 21, Township 19 South, Range 37 East, approximately 1 mile north and 3/4 of a mile east of the town of Monument in Lea County, New Mexico. The approximate coordinates are 32.642 degrees north and 103.256 degrees west. The surrounding area is predominantly uninhabited and used for ranching and oil and gas production and gathering. Approximately five underground pipelines traverse the Site.

The Site includes the former Eldridge Ranch property to the south and the former Huston property in the central portion, both of which are owned by DCP. The northern portion of the Site consists of land leased by DCP from the State of New Mexico. The Site spans more than a mile north to south over these three sections. For ease of discussion, the State of New Mexico property is referred to as the North Area, the Huston property is referenced as the Central Area, and the Eldridge Property is referred to as the South Area, as shown on Figure 2.

3. Groundwater Monitoring

This section describes the field groundwater monitoring activities performed during the second half 2016 monitoring event on September 27, 2016. Monitoring activities included Site-wide groundwater gauging, LNAPL measurements, and groundwater sampling. 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 half 2016, groundwater levels were measured at 58 monitoring well locations.

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 half 2016 groundwater elevation map, included as Figure 3, indicates that groundwater flow at the Site trends to the south-southeast. 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 Half 2016 (9/27/2016)
Maximum Elevation (Well ID)	3,620.53 (NMG MW-3)
Minimum Elevation (Well ID)	3,589.69 (MW-24)
Average Change from Previous Monitoring Event – All Wells	0.86 feet
Hydraulic Gradient (ft/ft) / (Well IDs)	0.0045 (NMG MW-3 to MW-24)

During the second half 2016 event, LNAPL was detected at 3 monitoring wells, as summarized below:

Monitoring Well ID	**Measured LNAPL Thickness (ft)**
MW-27	0.26
MW-N	0.92
MW-CC	0.66

3.2 Groundwater Quality Monitoring

Subsequent to recording groundwater level measurements at each monitoring well, groundwater samples were collected from monitoring wells that did not contain measurable LNAPL and that are historically included in the sampling network. 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 (^{0}C) for transportation to the laboratory. Groundwater samples were then shipped under chain-of-custody procedures to ALS Environmental (ALS) in Houston, Texas, for analysis.

Water quality samples were collected from 39 monitoring wells, one irrigation well, and one house well during the second half 2016 monitoring event.

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 half 2016 event. A dissolved-phase benzene isoconcentration map is illustrated on Figure 4. In addition, historic

analytical results up to and including the September 2016 event are contained in Appendix A and the laboratory analytical report for the reporting period is included in Appendix B.

Analytical results/observations are summarized below.

- Benzene concentrations in groundwater samples from seven (7) of the sampled monitoring wells were in exceedance of the New Mexico Water Quality Control Commission (NMWQCC) groundwater standard of 0.01 milligrams per liter (mg/L). Detected concentrations ranged from 3.9 mg/L at monitoring well MW-12 to 0.041 mg/L at MW-EE. In addition, the duplicate sample collected at monitoring well MW-12 (Dupe-B) had a reported benzene concentration of 3.1 mg/L.
- Toluene and total xylenes were in exceedance of the NMWQCC groundwater standards at monitoring well MW-26 with detected concentrations of 15 mg/L and 2.9 mg/L, respectively.
- The remaining sampled well locations had BTEX concentrations below the NMWQCC groundwater standards and/or laboratory detection limits.

3.3 Data Quality Assurance / Quality Control

A trip blank and field duplicate samples (MW-12, MW-23, and NMG MW-10) 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 half 2016 include the following:

- Target analytes were not detected in the trip blank;
- The duplicate values at monitoring wells MW-12 and NMG MW-10 indicated good correlation between primary and duplicate samples with a relative percent difference (RPD) value of 23 and 5.5, respectively. The difference in the parent sample & duplicate sample from MW-12 is above the target RPD of 20, however data suggests the results are satisfactory for this event.
- Both samples collected from MW-23 were below laboratory detection limits. Therefore, an RPD value could not be calculated.

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

4. Remediation Activities

Active LNAPL remediation and passive dissolved phase petroleum hydrocarbon remediation activities were conducted during the second half 2016 as described in the following Sections.

4.1 Vacuum Enhanced Fluid Recovery

During the second half 2016, Tasman conducted quarterly vacuum enhanced fluid recovery (EFR) events at monitoring wells MW-CC and MW-27 on September 29, 2016 and December 21, 2016. During each event, vacuum was applied simultaneously to the wells using a vacuum truck and through down-hole stinger pipe assemblies. The stingers were placed slightly below the LNAPL/groundwater interface, thereby removing LNAPL, groundwater, and hydrocarbon vapors from the subsurface. The EFR durations and liquid recovery volumes that were recorded during EFR efforts are summarized in the table below. The recovered liquid from both EFR events was subsequently transported and disposed of at the Cooper Disposal Facility in Hobbs, New Mexico.

EFR Location*	9/29/2016	12/21/16
	Duration (hrs) / Volume Removed (bbl)	Duration (hrs) / Volume Removed (bbl)
MW-27	8/65	8/55
MW-CC		

Note:
* Vacuum enhanced fluid recovery at MW-27 and MW-CC was conducted simultaneously.
bbl = barrel

4.2 Monitored Natural Attenuation (MNA)

In addition to EFR remediation activities, monitored natural attenuation (MNA) continues to be employed as a remediation strategy to address dissolved phase petroleum hydrocarbon detections at the Site.

Due to the progressive reduction in hydrocarbon concentrations, all wells within the North Area and South Area of the Site exhibit detections below NMWQCC standards and/or laboratory detection limits.

Monitoring wells MW-S, MW-I, and MW-6 serve as point of compliance wells along with several additional downgradient wells in the Central Area and exhibit BTEX concentrations below laboratory detection limits. Historic and second half 2016 semi-annual analytical data suggests that MNA continues to display the overall degradation of dissolved phase hydrocarbon concentrations at the Site.

5. Conclusions

Data and observations collected during the second half 2016 provide the following conclusions:

- Site-wide:
    - Dissolved phase BTEX concentrations indicate an overall declining trend.
- North Area of the Site:
    - With the exception of NMG MW-10, the benzene concentrations for all sampled wells within the North Area during second half 2016 were below the laboratory detection limits. The benzene concentration at NMG MW-10 decreased to below the NMWQCC standard during the second half 2016.

- Central Area of the Site:
    - LNAPL persists with fluctuating thicknesses in monitoring wells MW-27 and MW-CC LNAPL was also observed for the first time since February 2015 in MW-N during the September 2016 event. LNAPL thicknesses will continue to be monitored into 2017.
    - Elevated dissolved phase benzene concentrations continue to be observed within in the Central Area of the Site. However, the benzene concentrations within the plume continue to exhibit a progressively declining trend with minor fluctuations likely attributed to seasonal variations in the groundwater elevations at the Site. This trend indicates that overall dissolved phase plume is being mitigated through natural processes.
    - Point of compliance wells indicate that isolated impacts are not migrating.

- South Area of the Site:
    - During the second half 2016 monitoring event, BTEX concentrations were below NMWQCC regulatory standards and/or laboratory detection limits at all sampled locations in the South Area.
    - Constituent concentrations in the South Area monitoring wells indicate that dissolved and free phase hydrocarbon plumes within the Central Area are not migrating off-Site.

6. Recommendations

Based on evaluation of second half 2016 Site observations and monitoring results, the following recommendations have been developed for future activities:

- Continue semi-annual groundwater monitoring and sampling activities at the Site monitoring well network illustrated on Figure 2.
- Continue EFR remediation activities during the first half 2017 at wells with measurable amounts of LNAPL and/or elevated dissolved phase benzene concentrations. Ongoing EFR efforts will be further assessed during semi-annual events.
- On December 1, 2015, a Groundwater Monitoring Program Reduction Request Letter was submitted to the New Mexico Oil Conservation Division (NMOCD) requesting several amendments to the current monitoring program for the Site. To date, DCP has not received written or verbal communication with regard to the request letter. Contingent on NMOCD review of the proposed amendments, DCP will continue groundwater monitoring activities at the Site based on applicable NMOCD directive.

Tables

TABLE 1
SECOND HALF 2016 SEMI-ANNUAL
SUMMARY OF GROUNDWATER ELEVATION DATA
ELDRIDGE PIPELINE RELEASE
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	3/23/2016	18.77			NM	3618.22	3599.45	-0.36
MW-1	9/27/2016	17.92			NM	3618.22	3600.30	0.85
MW-1D	3/23/2016	20.29			NM	3616.18	3595.89	-0.34
MW-1D	9/27/2016	19.44			NM	3616.18	3596.74	0.85
MW-2	3/23/2016	21.87			NM	3621.63	3599.76	-0.33
MW-2	9/27/2016	21.11			29.00	3621.63	3600.52	0.76
MW-3	3/23/2016	21.81			NM	3621.67	3599.86	-0.37
MW-3	9/27/2016	21.01			22.27	3621.67	3600.66	0.80
MW-4	3/23/2016	21.22			NM	3621.31	3600.09	-1.41
MW-4	9/27/2016	20.26			30.98	3621.31	3601.05	0.96
MW-5	3/23/2016	17.20			NM	3618.08	3600.88	-0.25
MW-5	9/27/2016	15.94			27.61	3618.08	3602.14	1.26
MW-6	3/22/2016	20.72			NM	3624.999	3604.28	-0.56
MW-6	9/27/2016	19.87			30.13	3624.999	3605.13	0.85
MW-7	3/22/2016	26.26			NM	3630.62	3604.36	-0.52
MW-7	9/27/2016	25.87			NM	3630.62	3604.75	0.39
MW-8	3/22/2016	22.37			NM	3625.92	3603.55	-0.58
MW-8	9/27/2016	21.56			32.5	3625.92	3604.36	0.81
MW-9	3/22/2016	18.47			NM	3620.78	3602.31	-0.53
MW-9	9/27/2016	16.93			NM	3620.78	3603.85	1.54
MW-10	3/22/2016	22.12			NM	3627.27	3605.15	-0.62
MW-10	9/27/2016	21.22			31.71	3627.27	3606.05	0.90
MW-11	3/22/2016	22.85			NM	3627.56	3604.71	-1.71
MW-11	9/27/2016	22.30			32.60	3627.56	3605.26	0.55
MW-12	3/22/2016	25.09			NM	3631.14	3606.05	-0.57
MW-12	9/27/2016	24.72			34.03	3631.14	3606.42	0.37
MW-13	3/22/2016	26.51			NM	3632.90	3606.39	-0.64
MW-13	9/27/2016	25.4			NM	3632.90	3607.50	1.11
MW-14	3/22/2016	23.10			NM	3630.36	3607.26	-0.65
MW-14	9/27/2016	22.15			34.24	3630.36	3608.21	0.95
MW-15	3/22/2016	NM			NM	3635.47	NA	NA
MW-15	9/27/2016	25.99			NM	3635.47	3609.48	0.03
MW-16	3/23/2016	17.76			NM	3611.54	3593.78	-0.29
MW-16	9/27/2016	16.35			NM	3611.54	3595.19	1.41
MW-17	3/23/2016	15.06			NM	3608.23	3593.17	3.21
MW-17	9/27/2016	13.75			15.3	3608.23	3594.48	1.31
MW-18	3/22/2016	22.04			NM	3623.53	3601.49	-0.49
MW-18	9/27/2016	20.4			34.98	3623.53	3603.13	1.64
MW-19	3/22/2016	16.99			NM	3617.99	3601.00	-0.35
MW-19	9/27/2016	15.19			30.01	3617.99	3602.80	1.80

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MW-20	3/22/2016	30.23			NM	3637.14	3606.91	-0.47
MW-20	9/27/2016	30.28			35.08	3637.14	3606.86	-0.05
MW-21	3/22/2016	25.05			NM	3633.27	3608.22	-0.65
MW-21	9/27/2016	NM			NM	3634.27	NM	NA
MW-22	3/22/2016	21.45			NM	3628.68	3607.23	-0.62
MW-22	9/27/2016	20.32			24.61	3628.68	3608.36	1.13
MW-23	3/22/2016	23.53			NM	3632.02	3608.49	-0.53
MW-23	9/27/2016	22.90			32.81	3632.02	3609.12	0.63
MW-24	3/23/2016	20.78			NM	3609.15	3588.37	-0.22
MW-24	9/27/2016	19.46			37.7	3609.15	3589.69	1.32
MW-25	3/22/2016	27.70			NM	3640.14	3612.44	-0.32
MW-25	9/27/2016	27.55			36.23	3640.14	3612.59	0.15
MW-26	3/22/2016	24.40			NM	3635.01	3610.61	-0.37
MW-26	9/27/2016	24.79			35.68	3635.01	3610.22	-0.39
MW-27	3/22/2016	28.51	27.88	0.63	NM	3636.41	3608.37	-0.66
MW-27	9/27/2016	27.17	26.91	0.26	NM	3636.41	3609.44	1.06
MW-28	3/22/2016	22.70			NM	3632.58	3609.88	-0.52
MW-28	9/27/2016	NM			NM	3632.58	NM	NA
MW-29	3/22/2016	25.27			NM	3634.17	3608.90	-0.50
MW-29	9/27/2016	24.69			29.22	3634.17	3609.48	0.58
MW-30	3/22/2016	23.25			NM	3630.76	3607.51	-0.47
MW-30	9/27/2016	21.56			NM	3630.76	3609.20	1.69
MW-31	3/22/2016	19.91			NM	3625.38	3605.47	-0.51
MW-31	9/27/2016	18.21			NM	3625.38	3607.17	1.70
MW-A	3/23/2016	20.45			NM	3616.26	3595.81	-0.36
MW-A	9/27/2016	19.62			26.57	3616.26	3596.64	0.83
MW-E	3/22/2016	20.43			NM	3620.44	3600.01	-0.33
MW-E	9/27/2016	19.18			28.77	3620.44	3601.26	1.25
MW-F	3/22/2016	16.44			NM	3616.44	3600.00	-0.62
MW-F	9/27/2016	14.56			27.12	3616.44	3601.88	1.88
MW-I	3/22/2016	23.93			NM	3627.63	3603.70	-0.54
MW-I	9/27/2016	22.91			36.56	3627.63	3604.72	1.02
MW-J	3/22/2016	21.68			NM	3624.79	3603.11	-0.50
MW-J	9/27/2016	20.32			NM	3624.79	3604.47	1.36
MW-M	3/22/2016	26.98			NM	3634.10	3607.12	-0.66
MW-M	9/27/2016	26.20			40.16	3634.10	3607.90	0.78
MW-N	9/27/2016	27.95	27.03	0.92	NM	3635.45	3607.50	0.40
MW-O	3/22/2016	26.97			NM	3634.05	3607.08	-0.66
MW-O	9/27/2016	26.87			37.53	3634.05	3607.18	0.10
MW-Q	3/22/2016	23.62			NM	3631.59	3607.97	-0.64
MW-Q	9/27/2016	22.50			36.89	3631.59	3609.09	1.12

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MW-S	3/22/2016	17.29			NM	3622.20	3604.91	-1.61
MW-S	9/27/2016	15.04			31.14	3622.20	3607.16	2.25
MW-CC	3/22/2016	28.30	27.66	0.64	NM	3635.22	3607.40	-0.65
MW-CC	9/27/2016	27.23	26.57	0.66	NM	3635.22	3608.49	1.09
MW-EE	3/22/2016	23.41			NM	3632.32	3608.91	-0.43
MW-EE	9/27/2016	22.83			33.89	3632.32	3609.49	0.58
MW-LL	3/22/2016	28.33			NM	3635.41	3607.08	-0.66
MW-LL	9/27/2016	27.20			39.4	3635.41	3608.21	1.13
MW-MM	3/22/2016	23.20			NM	3631.61	3608.41	-0.67
MW-MM	9/27/2016	22.32			31.84	3631.61	3609.29	0.88
NMG MW2	3/22/2016	28.90			NM	3646.90	3618.00	-0.51
NMG MW2	9/27/2016	28.49			36.9	3646.90	3618.41	0.41
NMG MW3	3/22/2016	29.35			NM	3649.80	3620.45	-0.26
NMG MW3	9/27/2016	29.27			38.96	3649.80	3620.53	0.08
NMG MW4	3/22/2016	29.39			NM	3646.08	3616.69	-0.38
NMG MW4	9/27/2016	29.33			36.34	3646.08	3616.75	0.06
NMG MW5	3/22/2016	31.18			NM	3648.55	3617.37	-0.46
NMG MW5	9/27/2016	DRY						
NMG MW6	3/22/2016	30.03			NM	3646.62	3616.59	-0.50
NMG MW6	9/27/2016	29.61			38.18	3646.62	3617.01	0.42
NMG MW7	3/22/2016	28.82			NM	3644.18	3615.36	-0.52
NMG MW7	9/27/2016	28.24			36.68	3644.18	3615.94	0.58
NMG MW8	3/22/2016	31.00			NM	3647.18	3616.18	-0.54
NMG MW8	9/27/2016	30.50			38	3647.18	3616.68	0.50
NMG MW9	3/22/2016	27.33			NM	3642.12	3614.79	-0.58
NMG MW9	9/27/2016	26.73			35.83	3642.12	3615.39	0.60
NMG MW10	3/22/2016	26.77			NM	3641.78	3615.01	-0.57
NMG MW10	9/27/2016	26.21			32.22	3641.78	3615.57	0.56
NMG MW11	3/22/2016	26.08			NM	3640.37	3614.29	-0.57
NMG MW11	9/27/2016	25.35			32.42	3640.37	3615.02	0.73
NMG MW12	3/22/2016	25.78			NM	3638.20	3612.42	-0.56
NMG MW12	9/27/2016	OBSTRUCTION @ 18'						

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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)
NMG MW13	3/22/2016	24.31			NM	3636.64	3612.33	-0.57
NMG MW13	9/27/2016	OBSTRUCTION @ 16.35'						
							Average change in groundwater elevation (3/22/16 to 9/27/16)	0.86

Notes:

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

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

TABLE 2
SECOND HALF 2016 SEMI-ANNUAL
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
ELDRIDGE PIPELINE RELEASE
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	9/27/2016	<0.0010	<0.0010	0.010	0.0033	
MW-1D	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-4	9/27/2016	0.0062	0.0084	0.053	0.10	
MW-5	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-6	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-8	9/27/2016	0.0052	0.0058	0.012	<0.015	
MW-10	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-11	9/27/2016	**0.45**	0.0013	<0.0010	0.18	
MW-12	9/27/2016	**3.9**	<0.0010	0.17	0.013	Duplicate B Sample Collected
MW-12 (Duplicate)	9/27/2016	**3.1**	<0.0010	0.16	<0.030	
MW-14	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-17	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-18	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-19	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-20	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-22	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-23	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	Duplicate C Sample Collected
MW-23 (Duplicate)	9/27/2016	<0.0050	<0.0050	0.011	<0.015	
MW-24	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-25	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-26	9/27/2016	**3.5**	**15**	0.51	**2.9**	
MW-27	9/27/2016	LNAPL				
MW-29	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
House Well	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
Irrigation Well	9/27/2016	<0.0050	<0.0050	<0.0050	<0.015	
MW-A	9/27/2017	<0.0050	<0.0050	0.035	0.075	
MW-E	9/27/2017	0.0088	<0.0010	<0.0010	<0.0030	
MW-F	9/27/2017	<0.0010	<0.0010	<0.0010	<0.0030	
MW-I	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-M	9/27/2016	**2.8**	<0.010	0.39	<0.030	
MW-N	9/27/2017	LNAPL				
MW-O	9/27/2017	**2.4**	<0.0050	0.0880	<0.015	
MW-Q	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-S	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-CC	9/27/2016	LNAPL				
MW-EE	9/27/2016	**0.041**	<0.0010	<0.0010	<0.0030	
MW-LL	9/27/2016	**0.37**	0.13	0.058	0.076	
MW-MM	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	

TABLE 2
SECOND HALF 2016 SEMI-ANNUAL
SUMMARY OF BTEX CONCENTRATIONS IN GROUNDWATER
ELDRIDGE PIPELINE RELEASE
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**	
NMG MW-2	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-3	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-4	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-5	9/27/2016	DRY				
NMG MW-6	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-7	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-8	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-10	9/27/2016	0.0071	<0.0010	<0.0010	<0.0030	Duplicate A Sample Collected
NMG MW-10 (Duplicate)	9/27/2016	0.0075	<0.0050	<0.0050	<0.015	
NMG MW-11	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-12	9/27/2016	Obstruction in well @ 17.97'				
NMG MW-13	9/27/2016	Obstruction @ 16.35'				
Trip Blank	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	

Notes:

Bold red 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

mg/L = milligrams per liter

Notes:

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

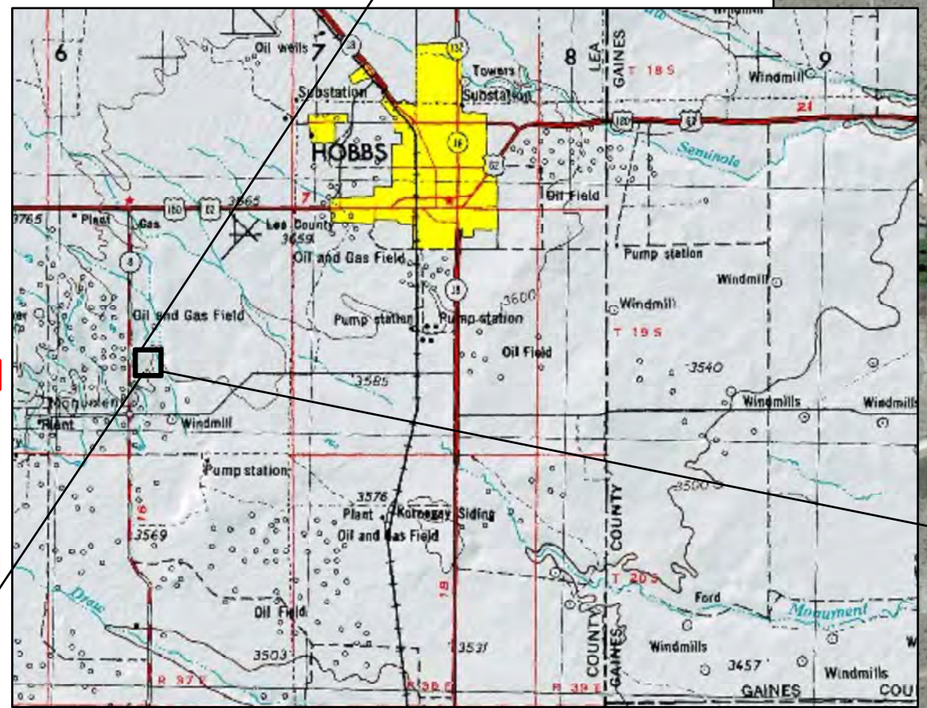
Groundwater elevation = (TOC Elevation - Measured Depth to Water) + (LNAPL Thickness in Well * LNAPL Relative Density)
LNAPL relative density is assumed to be approximately 0.75

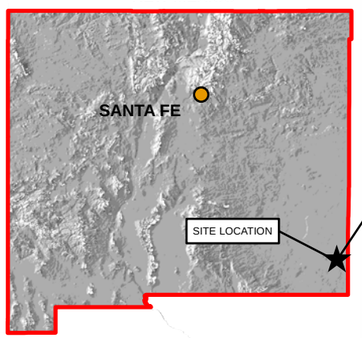
NM = Not Measured

NA = Not Applicable

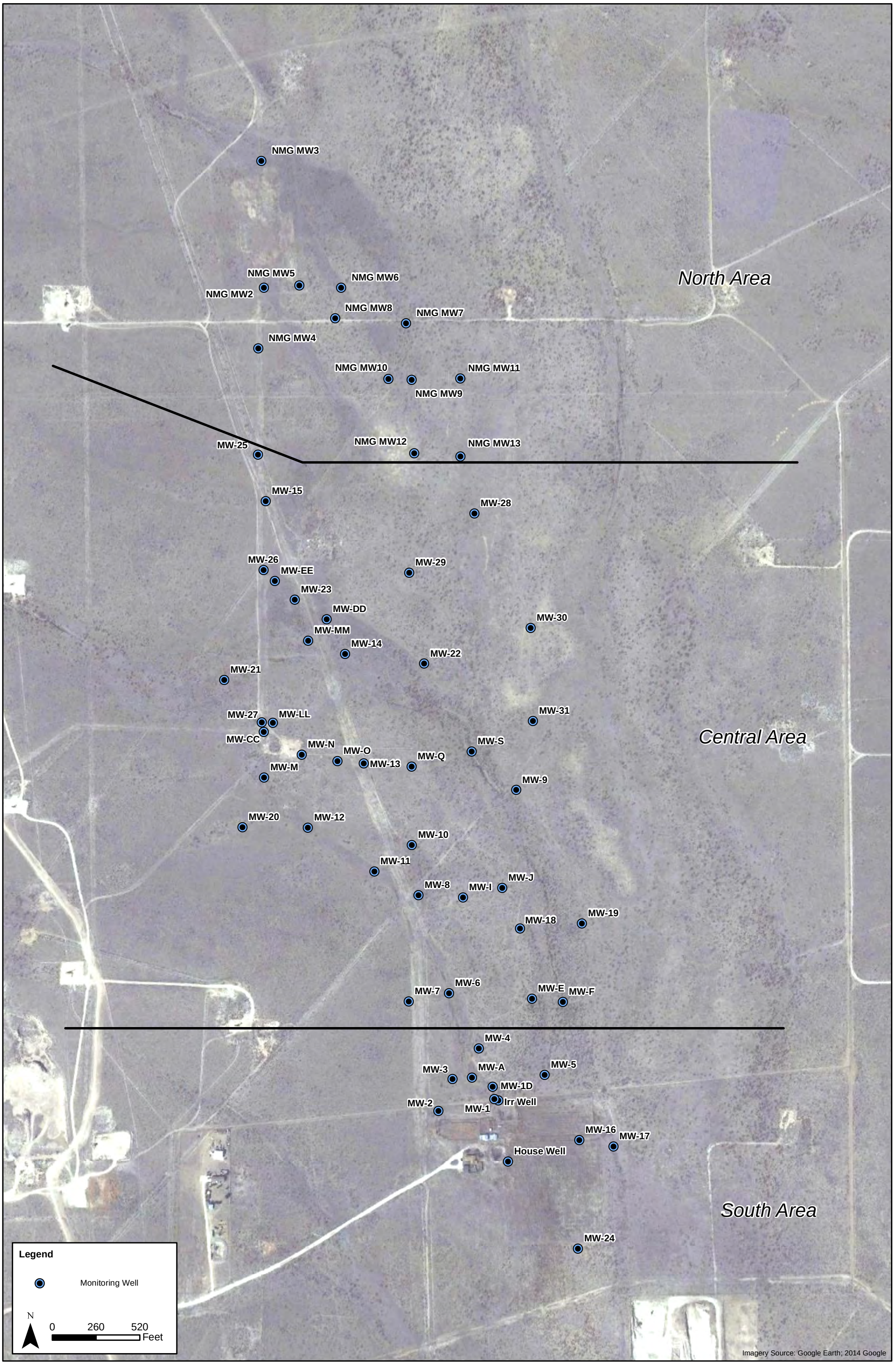
Figures

N





DATE: April 2015 DESIGNED BY: T. Johansen DRAWN BY: D. Arnold	TASMAN GEOSCIENCES Tasman Geosciences, Inc. 6899 Pecos Street - Unit C Denver, CO 80221	**DCPMidstream** **Eldridge Ranch** Unit P, Section 21, Township 19 South, Range 37 East Lea County, New Mexico	Site Location Map	Figure 1



DATE: February 2017 DESIGNED BY: B. Humphrey DRAWN BY: D. Arnold	TASMAN GEOSCIENCES Tasman Geosciences, Inc. 6899 Pecos Street - Unit C Denver, CO 80221	**DCP Midstream** **Eldridge Pipeline Release** Second Half 2016 Semi-Annual Groundwater Monitoring Summary Report	Site Map with Monitoring Well Locations	Figure 2

NMG MW-3
3620.53

3620.00

3618.00

3616.00

NMG MW-2
3618.41

NMG MW-5
DRY

NMG MW-8
3616.68

North Area

NMG MW-7
3615.94

3614.00

NMG MW-6
3617.01

NMG MW-4
3616.75

NMG MW-9
3615.39

NMG MW-11
3615.02

NMG MW-10
3615.57

NMG MW-12
NM

NMG MW-13
NM

3612.00

MW-25
3612.59

MW-15
3609.48

MW-28
NM

3610.00

MW-26
3610.22

MW-EE
3609.49

MW-29
3609.48

MW-23
3609.12

MW-DD
NM

MW-30
3609.20

MW-MM
3609.29

MW-14
3608.21

MW-22
3608.36

3608.00

MW-21
NM

MW-27
*3609.43

MW-LL
3608.21

MW-31
3607.17

MW-CC
*3608.48

MW-N
*3607.50

MW-O
3607.18

MW-13
3607.50

MW-Q
3609.09

MW-S
3607.16

3606.00

Central Area

MW-M
3607.90

MW-9
3603.85

MW-20
3606.86

MW-12
3606.42

3604.00

MW-10
3606.05

MW-11
3605.26

MW-J
3604.47

MW-8
3604.36

MW-I
3604.72

MW-18
3603.13

MW-19
3602.80

3602.00

MW-7
3604.75

MW-6
3605.13

MW-E
3601.26

MW-F
3601.88

3600.00

MW-4
3601.05

MW-5
3602.14

MW-3
3600.66

MW-A
3596.64

MW-1D
3596.74

3602.00

3598.00

MW-2
3600.52

MW-1
3600.30

Irr Well
NM

3598.00

3596.00

MW-17
3594.48

House Well
NM

MW-16
3595.19

3594.00

3592.00

South Area

3590.00

MW-24
3589.69

Legend

- Monitoring Well
- Groundwater Elevation Contour Line (feet AMSL), Dashed Where Inferred
- 3600.09 — Measured Groundwater Elevation (feet AMSL)
- NM — Not Measured
- Groundwater Flow Direction

Notes:

* - The groundwater elevation value was corrected due to the presence of NAPL as follows: (Measured Groundwater Elevation) + (LNAPL thickness * LNAPL Relative Density of 0.75)

AMSL - Above Mean Sea Level

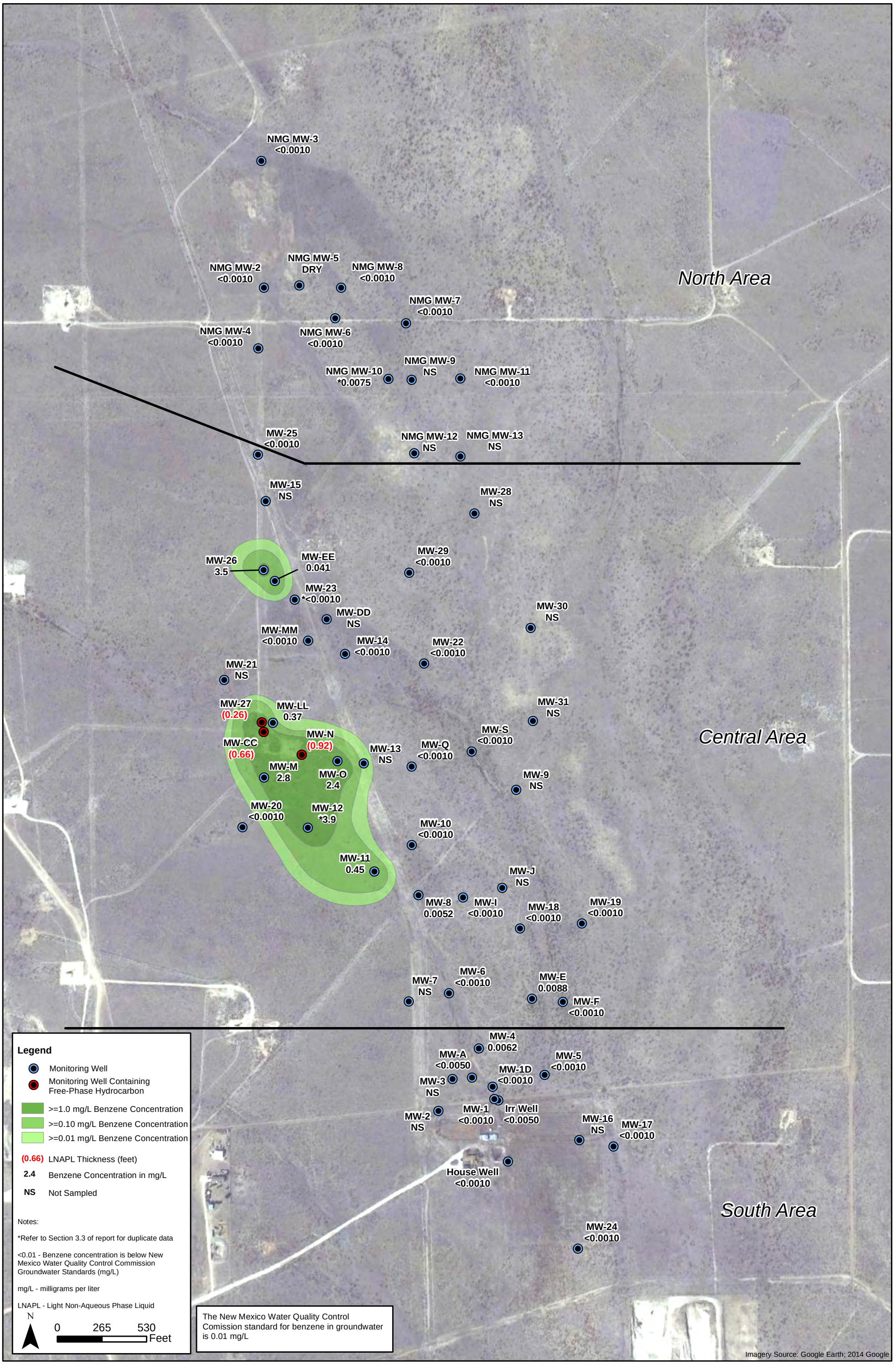
LNAPL -Light Non-Aqueous Phase Liquid

N

0 260 520 Feet

Imagery Source: Google Earth; 2014 Google

DATE: February 2017 DESIGNED BY: B. Humphrey DRAWN BY: D. Arnold	TASMAN GEOSCIENCES Tasman Geosciences, Inc. 6899 Pecos Street - Unit C Denver, CO 80221	**DCP Midstream** **Eldridge Pipeline Release** Second Half 2016 Semi-Annual Groundwater Monitoring Summary Report	Groundwater Elevation Contour Map (September 27, 2016)	Figure 3



DATE: February 2017 DESIGNED BY: B. Humphrey DRAWN BY: D. Arnold	TASMAN GEOSCIENCES Tasman Geosciences, Inc. 6899 Pecos Street - Unit C Denver, CO 80221	**DCP Midstream** **Eldridge Pipeline Release** Second Half 2016 Semi-Annual Groundwater Monitoring Summary Report	Benzene Isoconcentration Contour Map (September 27, 2016)	Figure 4

Appendix A

Historic Analytical Results

APPENDIX A
HISTORIC ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
ELDRIDGE PIPELINE RELEASE
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	9/14/2011	0.0031	<0.002	0.0194	0.0075	
MW-1	3/6/2012	0.0027	<0.002	<0.002	<0.004	
MW-1	9/7/2012	0.0023	<0.002	0.0156	<0.003	
MW-1	2/21/2013	0.0021	<0.002	0.0153	<0.003	
MW-1	9/13/2013	0.0019	<0.002	0.0126	<0.003	
MW-1	2/27/2014	0.0015	<0.002	0.0111	<0.003	
MW-1	9/24/2014	Well Not Sampled due to Inclement Weather				
MW-1	2/26/2015	<0.005	<0.005	0.011	<0.015	
MW-1	9/2/2015	<0.005	<0.005	0.011	<0.015	
MW-1	3/23/2016	<0.0050	<0.0050	0.0075	<0.015	
MW-1	9/27/2016	<0.0010	<0.0010	0.01	0.0033	
MW-1D	9/14/2011	<0.001	<0.002	0.0005	<0.004	
MW-1D	3/6/2012	<0.001	<0.002	<0.002	<0.004	
MW-1D	9/7/2012	<0.001	<0.002	<0.002	<0.003	
MW-1D	2/21/2013	<0.001	<0.002	<0.002	<0.003	
MW-1D	9/13/2013	<0.001	<0.002	<0.002	<0.003	
MW-1D	2/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-1D	9/24/2014	Well Not Sampled due to Inclement Weather				
MW-1D	2/26/2015	<0.001	<0.001	<0.001	<0.003	
MW-1D	9/2/2015	<0.001	<0.001	<0.001	<0.003	
MW-1D	3/23/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-1D	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-2	9/24/2014	Well Not on Sampling Plan				
MW-3	9/7/2012	NS	NS	NS	NS	
MW-3	2/21/2013	NS	NS	NS	NS	
MW-3	2/27/2014	Well was gauged not sampled				
MW-3	9/24/2014	Well Not on Sampling Plan				
MW-4	9/14/2011	0.0011	<0.004	0.0968	0.291	
MW-4	3/6/2012	0.00033	<0.002	0.0407	0.397	
MW-4	9/7/2012	0.00059	0.0012	0.078	0.29	
MW-4	2/21/2013	0.00049	<0.002	0.0802	0.244	
MW-4	9/13/2013	0.00041	<0.002	0.0695	0.220	
MW-4	2/27/2014	0.00046 J	<0.002	0.047	0.147	
MW-4	9/24/2014	Well Not Sampled due to Inclement Weather				
MW-4	2/26/2015	<0.005	<0.005	0.053	0.14	
MW-4	9/2/2015	<0.005	<0.005	0.057	0.15	
MW-4	3/23/2016	<0.0050	<0.0050	0.036	0.091	
MW-4	9/27/2016	0.0062	0.0084	0.053	0.10	
MW-5	9/14/2011	0.00028	<0.002	0.0091	0.0314	
MW-5	3/6/2012	<0.001	<0.002	0.0095	0.0351	
MW-5	9/7/2012	0.00034	<0.002	0.0073	0.0253	
MW-5	2/21/2013	0.00045	<0.002	0.0068	0.0242	
MW-5	9/13/2013	<0.001	<0.002	0.0068	0.0267	
MW-5	2/27/2014	<0.001	<0.002	0.0052	0.0181	
MW-5	9/25/2014	<0.001	<0.001	<0.001	<0.001	
MW-5	2/26/2015	<0.001	<0.001	<0.001	<0.003	
MW-5	9/2/2015	<0.001	<0.001	0.0017	0.006	
MW-5	3/23/2016	<0.0010	<0.0010	0.0030	0.011	
MW-5	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	

APPENDIX A
HISTORIC ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
ELDRIDGE PIPELINE RELEASE
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	9/14/2011	<0.001	<0.002	<0.002	<0.004	
MW-6	3/6/2012	<0.001	<0.002	<0.002	<0.004	
MW-6	9/7/2012	<0.001	<0.002	<0.002	<0.003	
MW-6	2/21/2013	<0.001	<0.002	<0.002	<0.003	
MW-6	9/13/2013	<0.001	<0.002	<0.002	<0.003	
MW-6	2/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-6	9/24/2014	Well Not Sampled due to Inclement Weather				
MW-6	2/26/2015	<0.001	<0.001	<0.001	<0.003	
MW-6	9/3/2015	<0.001	<0.001	<0.001	<0.003	
MW-6	3/22/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-6	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-7	9/7/2012	NS	NS	NS	NS	
MW-7	2/21/2013	NS	NS	NS	NS	
MW-7	2/27/2014	Well was gauged not sampled				
MW-7	9/24/2014	Well Not on Sampling Plan				
MW-8	9/14/2011	**0.0117**	<0.004	0.0659	0.136	
MW-8	3/8/2012	0.0085	<0.002	0.0473	0.121	Duplicate C sample collected
MW-8	9/6/2012	0.0029	<0.002	0.131	0.344	Duplicate C sample collected
MW-8	2/20/2013	0.0024	<0.002	0.0375	0.0966	
MW-8	9/12/2013	0.0013	<0.002	0.0216	0.0642	
MW-8	2/27/2014	0.0014	<0.002	0.0323	0.0887	
MW-8 (duplicate)	9/25/2014	0.00084 J	<0.001	0.0216	0.0535	Duplicate C sample collected
MW-8	9/25/2014	0.00091 J	<0.001	0.0232	0.0580	
MW-8	2/26/2015	<0.005	<0.005	0.023	0.054	
MW-8	9/3/2015	<0.005	<0.005	0.016	0.039	
MW-8	3/22/2016	<0.0050	<0.0050	0.014	<0.015	
MW-8	9/27/2016	0.0052	0.0058	0.012	<0.015	
MW-9	9/14/2011	<0.001	<0.002	<0.002	<0.004	
MW-9	3/7/2012	<0.001	<0.002	<0.002	<0.004	
MW-9	9/6/2012	<0.001	<0.002	<0.002	<0.003	
MW-9	2/20/2013	<0.001	<0.002	<0.002	<0.003	
MW-9	9/12/2013	<0.001	<0.002	<0.002	<0.003	
MW-9	2/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-9	Removed in 1H14					
MW-10	9/14/2011	**0.0202**	<0.002	0.0041	0.0044	
MW-10	3/8/2012	0.0078	<0.002	0.00086	<0.004	
MW-10	9/6/2012	**0.0102**	<0.002	0.0012	<0.003	
MW-10	2/20/2013	0.0044	<0.002	<0.002	<0.003	
MW-10	9/12/2013	0.0049	<0.002	<0.002	<0.003	
MW-10	2/27/2014	0.0046	<0.002	0.00026 J	<0.003	
MW-10	9/24/2014	Well Not Sampled due to Inclement Weather				
MW-10	2/26/2015	<0.005	<0.005	<0.005	<0.015	
MW-10	9/2/2015	<0.005	<0.005	<0.005	<0.015	
MW-10	3/22/2016	<0.0050	<0.0050	<0.0050	<0.015	
MW-10	9/27/2016	<0.0010	<0.0010	<0.0010	<0.003	
MW-11	9/14/2011	**3.52**	<0.20	0.37	0.403	
MW-11	3/8/2012	**2.01**	<0.20	0.17	<0.40	
MW-11	9/6/2012	**1.85**	<0.05	0.139	0.0774	
MW-11	2/20/2013	**2.04**	<0.05	0.102	<0.075	
MW-11	9/12/2013	**2.41**	<0.040	0.113	0.0635	

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BTEX CONCENTRATIONS IN GROUNDWATER
ELDRIDGE PIPELINE RELEASE
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-11	2/27/2014	LNAPL	LNAPL	LNAPL	LNAPL	
MW-11	9/24/2014	Well Not Sampled due to Inclement Weather				
MW-11	2/26/2015	**0.84**	<0.005	0.33	0.52	
MW-11	9/2/2015	**0.67**	<0.005	0.27	0.37	
MW-11	3/22/2016	**0.78**	<0.0050	0.16	0.23	
MW-11	9/27/2016	**0.45**	0.0013	<0.0010	0.18	
MW-12	9/14/2011	**9.51**	<0.20	0.307	<0.40	
MW-12	3/8/2012	**17.0**	<0.20	0.71	<0.40	
MW-12	9/6/2012	**7.12**	<0.20	0.337	<0.30	
MW-12	2/20/2013	**3.10**	<0.10	0.187	<0.15	
MW-12	9/12/2013	**3.29**	<0.10	0.235	<0.15	Duplicate A sample collected
MW-12	2/27/2014	**1.02**	<0.10	0.126	<0.15	Duplicate C sample collected
MW-12 (duplicate)	2/27/2014	**1.25**	<0.002	0.180	0.0133	
MW-12	9/24/2014	Well Not Sampled due to Inclement Weather				
MW-12	2/25/2015	**3.5**	<0.005	0.24	0.089	Duplicate C Sample Collected
MW-12 (Duplicate)	2/25/2015	**3.4**	<0.005	0.23	0.100	
MW-12	9/2/2015	**3.8**	<0.005	0.23	0.020	Duplicate B Sample Collected
MW-12 (Duplicate)	9/2/2015	**5.7**	<0.005	0.21	0.020	
MW-12	3/22/2016	**3.9**	<0.0050	0.20	<0.015	Duplicate B Sample Collected
MW-12 (Duplicate)	3/22/2016	**4.1**	<0.0050	0.21	<0.015	
MW-12	9/27/2016	**3.9**	<0.0010	0.17	0.013	Duplicate B Sample Collected
MW-12 (Duplicate)	9/27/2016	**3.1**	<0.0010	0.16	<0.030	
MW-13	9/24/2014	Well Not on Sampling Plan				
MW-14	9/14/2011	<0.001	<0.002	<0.002	<0.004	
MW-14	3/8/2012	<0.001	<0.002	<0.002	<0.004	
MW-14	9/6/2012	<0.001	<0.002	<0.002	<0.003	
MW-14	2/19/2013	<0.001	<0.002	<0.002	<0.003	
MW-14	9/12/2013	<0.001	<0.002	<0.002	<0.003	
MW-14	2/26/2014	<0.001	<0.002	<0.002	<0.003	
MW-14	9/24/2014	Well Not Sampled due to Inclement Weather				
MW-14	2/25/2015	<0.001	<0.001	<0.001	<0.003	
MW-14	9/2/2015	<0.001	<0.001	<0.001	<0.003	
MW-14	3/22/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-14	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-15	9/24/2014	Well Not on Sampling Plan				
MW-16	9/14/2011	<0.001	<0.002	<0.002	<0.004	
MW-16	3/7/2012	<0.001	<0.002	<0.002	<0.004	
MW-16	9/7/2012	<0.001	<0.002	<0.002	<0.003	
MW-16	2/21/2013	<0.001	<0.002	<0.002	<0.003	
MW-16	9/13/2013	<0.001	<0.002	<0.002	<0.003	
MW-16	2/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-16	Removed in 2H13					
MW-17	9/14/2011	<0.001	<0.002	<0.002	<0.004	
MW-17	3/7/2012	<0.001	<0.002	<0.002	<0.004	
MW-17	9/7/2012	NS	NS	NS	NS	
MW-17	2/22/2013	<0.001	<0.002	<0.002	<0.003	
MW-17	9/13/2013	<0.001	<0.002	<0.002	<0.003	
MW-17	2/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-17	9/25/2014	<0.001	<0.001	<0.001	<0.001	

APPENDIX A
HISTORIC ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
ELDRIDGE PIPELINE RELEASE
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-17	2/26/2015	<0.001	<0.001	<0.001	<0.003	
MW-17	9/2/2015	<0.001	<0.001	<0.001	<0.003	
MW-17	3/23/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-17	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-18	9/14/2011	0.0019	<0.002	0.0053	0.0073	
MW-18	3/8/2012	0.00038	<0.002	0.0012	<0.004	
MW-18	9/6/2012	<0.001	<0.002	<0.002	<0.003	
MW-18	2/21/2013	<0.001	<0.002	<0.002	<0.003	
MW-18	9/13/2013	<0.001	<0.002	<0.002	<0.003	
MW-18	2/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-18	9/25/2014	<0.001	<0.001	<0.001	<0.001	
MW-18	2/26/2015	<0.001	<0.001	0.0019	<0.003	
MW-18	9/3/2015	<0.001	<0.001	<0.001	0.0031	
MW-18	3/22/2016	<0.0010	<0.0010	0.0029	0.0042	
MW-18	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-19	9/14/2011	<0.001	<0.002	<0.002	<0.004	
MW-19	3/7/2012	<0.001	<0.002	<0.002	<0.004	
MW-19	9/7/2012	0.00032	<0.002	<0.002	<0.003	
MW-19	2/21/2013	<0.001	<0.002	<0.002	<0.003	
MW-19	9/13/2013	<0.001	<0.002	<0.002	<0.003	
MW-19	2/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-19	9/25/2014	<0.001	<0.001	<0.001	<0.001	
MW-19	2/26/2015	<0.001	<0.001	<0.001	<0.003	
MW-19	9/3/2015	<0.001	<0.001	<0.001	<0.003	
MW-19	3/22/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-19	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-20	9/14/2011	<0.001	<0.002	<0.002	<0.004	
MW-20	3/8/2012	NS	NS	NS	NS	
MW-20	9/7/2012	NS	NS	NS	NS	
MW-20	2/20/2013	<0.001	<0.002	<0.002	<0.003	
MW-20	9/13/2013	NS	NS	NS	NS	
MW-20	2/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-20	9/24/2014	Well Not Sampled due to Inclement Weather				
MW-20	2/25/2015	<0.001	<0.001	<0.001	<0.003	
MW-20	9/3/2015	<0.001	<0.001	<0.001	<0.003	
MW-20	3/22/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-20	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-21	2/27/2014	0.00059 J	<0.002	0.00072 J	<0.003	
MW-21	9/24/2014	Well Not on Sampling Plan				
MW-22	9/14/2011	NS	NS	NS	NS	
MW-22	3/8/2012	NS	NS	NS	NS	
MW-22	9/6/2012	<0.001	<0.002	<0.002	<0.003	
MW-22	2/19/2013	NS	NS	NS	NS	
MW-22	9/13/2013	NS	NS	NS	NS	
MW-22	2/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-22	9/24/2014	<0.001	<0.001	<0.001	<0.001	
MW-22	2/25/2015	<0.001	<0.001	<0.001	<0.003	
MW-22	9/2/2015	<0.001	<0.001	<0.001	<0.003	
MW-22	3/22/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-22	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	

APPENDIX A
HISTORIC ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
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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	9/14/2011	**0.0588**	<0.004	0.121	<0.008	Duplicate B sample collected
MW-23	3/8/2012	**0.0505**	<0.002	0.127	0.0034	
MW-23	9/6/2012	**0.029**	<0.002	0.094	0.0032	
MW-23	2/19/2013	**0.0509**	<0.002	0.0698	0.0024	
MW-23	9/12/2013	**0.0418**	<0.002	0.0392	<0.003	
MW-23	2/26/2014	**0.0382**	<0.002	0.0208	<0.003	
MW-23	9/24/2014	Well Not Sampled due to Inclement Weather				
MW-23	2/25/2015	0.0061	<0.005	<0.005	<0.015	Duplicate B Sample Collected
MW-23 (Duplicate)	2/25/2015	<0.005	<0.005	<0.005	<0.015	
MW-23	9/2/2015	<0.005	<0.005	<0.005	<0.015	Duplicate C Sample Collected
MW-23 (Duplicate)	9/2/2015	<0.001	<0.001	<0.001	<0.003	
MW-23	3/22/2016	<0.0050	<0.0050	<0.0050	<0.015	Duplicate C Sample Collected
MW-23 (Duplicate)	3/22/2016	**3.9**	<0.0050	0.21	<0.015	
MW-23	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	Duplicate C Sample Collected
MW-23 (Duplicate)	9/27/2016	<0.0050	<0.0050	0.011	<0.015	
MW-24	9/14/2011	0.00051	<0.002	<0.002	<0.004	
MW-24	3/7/2012	<0.001	<0.002	<0.002	<0.004	
MW-24	9/7/2012	<0.001	<0.002	<0.002	<0.003	
MW-24	2/21/2013	<0.001	<0.002	<0.002	<0.003	
MW-24	9/13/2013	<0.001	<0.002	<0.002	<0.003	
MW-24	2/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-24	9/25/2014	<0.001	<0.001	<0.001	<0.001	
MW-24	2/26/2015	<0.001	<0.001	<0.001	<0.003	
MW-24	9/2/2015	<0.001	<0.001	<0.001	<0.003	
MW-24	3/23/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-24	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-25	9/14/2011	<0.001	<0.002	<0.002	<0.004	
MW-25	3/7/2012	<0.001	<0.002	<0.002	<0.004	
MW-25	9/5/2012	<0.001	<0.002	<0.002	<0.003	
MW-25	2/19/2013	<0.001	<0.002	<0.002	<0.003	
MW-25	9/12/2013	<0.001	<0.002	<0.002	<0.003	
MW-25	2/26/2014	<0.001	<0.002	<0.002	<0.003	
MW-25	9/24/2014	Well Not Sampled due to Inclement Weather				
MW-25	2/25/2015	<0.001	<0.001	<0.001	<0.003	
MW-25	9/2/2015	<0.001	<0.001	<0.001	<0.003	
MW-25	3/22/2016	0.0019	0.0081	0.0011	0.0082	
MW-25	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-26	9/14/2011	NS	NS	NS	NS	
MW-26	3/8/2012	NS	NS	NS	NS	
MW-26	9/7/2012	NS	NS	NS	NS	
MW-26	2/19/2013	LNAPL	LNAPL	LNAPL	LNAPL	
MW-26	9/12/2013	LNAPL	LNAPL	LNAPL	LNAPL	
MW-26	2/26/2014	LNAPL	LNAPL	LNAPL	LNAPL	
MW-26	9/24/2014	Well Not Sampled due to Inclement Weather				
MW-26	2/25/2015	**16**	**29**	**0.75**	**2.4**	
MW-26	9/2/2015	**12**	**15**	0.47	**1.5**	
MW-26	3/22/2016	**1.4**	**1.4**	0.11	0.39	
MW-26	9/27/2016	**3.5**	**15**	0.51	**2.9**	
MW-27	9/24/2014	Well Not Sampled due to Inclement Weather				
MW-27	2/25/2015	LNAPL				

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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-27	9/2/2015	LNAPL				
MW-27	3/22/2016	LNAPL				
MW-27	9/27/2016	LNAPL				
MW-28	9/14/2011	<0.001	<0.002	<0.002	<0.004	
MW-28	3/7/2012	<0.001	<0.002	<0.002	<0.004	
MW-28	9/5/2012	<0.001	<0.002	<0.002	<0.003	
MW-28	2/19/2013	<0.001	<0.002	<0.002	<0.003	
MW-28	9/12/2013	<0.001	<0.002	<0.002	<0.003	
MW-28	2/26/2014	<0.001	<0.002	<0.002	<0.003	
MW-28	9/24/2014	Well Not Sampled due to Inclement Weather				
MW-28	Removed 1H15					
MW-29	9/14/2011	<0.001	<0.002	<0.002	<0.004	
MW-29	3/7/2012	0.00028	<0.002	<0.002	<0.004	
MW-29	9/6/2012	<0.001	<0.002	<0.002	<0.003	
MW-29	2/20/2013	<0.001	<0.002	<0.002	<0.003	
MW-29	9/12/2013	<0.001	<0.002	<0.002	<0.003	
MW-29	2/26/2014	<0.001	<0.002	<0.002	<0.003	
MW-29	9/24/2014	<0.001	<0.001	<0.001	<0.001	
MW-29	2/25/2015	<0.001	<0.001	<0.001	<0.003	
MW-29	9/2/2015	<0.001	<0.001	<0.001	<0.003	
MW-29	3/22/2016	<0.0010	0.0028	<0.0010	<0.0030	
MW-29	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-30	9/14/2011	<0.001	<0.002	<0.002	<0.004	
MW-30	3/7/2012	<0.001	<0.002	<0.002	<0.004	
MW-30	9/6/2012	<0.001	<0.002	<0.002	<0.003	
MW-30	2/20/2013	<0.001	<0.002	<0.002	<0.003	
MW-30	9/12/2013	<0.001	<0.002	<0.002	<0.003	
MW-30	2/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-30	Removed in 1H14					
MW-31	9/14/2011	<0.001	<0.002	<0.002	<0.004	
MW-31	3/7/2012	<0.001	<0.002	<0.002	<0.004	
MW-31	9/6/2012	<0.001	<0.002	<0.002	<0.003	
MW-31	2/20/2013	<0.001	<0.002	<0.002	<0.003	
MW-31	9/12/2013	<0.001	<0.002	<0.002	<0.003	
MW-31	2/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-31	Removed in 1H14					
House Well	9/14/2011	0.0088	<0.002	0.00074	<0.004	Duplicate C sample collected
House Well	3/6/2012	0.00044	<0.002	<0.002	<0.004	
House Well	9/6/2012	<0.001	<0.002	<0.002	<0.003	
House Well	2/21/2013	<0.001	<0.002	<0.002	<0.003	
House Well	9/12/2013	0.00027	<0.002	<0.002	<0.003	
House Well	2/27/2014	<0.001	<0.002	<0.002	<0.003	
House Well	9/24/2014	Well Not Sampled due to Inclement Weather				
House Well	2/26/2015	<0.001	<0.001	<0.001	<0.003	
House Well	9/3/2015	<0.001	<0.001	<0.001	<0.003	
House Well	3/23/2016	<0.0010	<0.0010	<0.0010	<0.0030	
House Well	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
Irrigation Well	9/14/2011	0.0049	<0.002	0.0167	0.0236	
Irrigation Well	3/6/2012	0.0017	<0.002	0.0108	0.0158	Duplicate A sample collected

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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**	
Irrigation Well	9/6/2012	0.0048	<0.002	0.015	0.0114	Duplicate A sample collected
Irrigation Well	2/21/2013	0.0027	<0.002	0.0117	0.0116	
Irrigation Well	9/12/2013	0.0027	<0.002	0.0057	<0.003	Duplicate C sample collected
Irrigation Well	2/27/2014	0.0033	<0.002	0.0149	0.0029 J	
Irrigation Well	9/25/2014	0.0025	<0.001	0.0077	0.0014	Duplicate B Sample Collected
Irrigation Well (Duplicate)	9/25/2014	0.0014	<0.001	0.0031	0.00097 J	
Irrigation Well	2/26/2015	<0.001	<0.001	<0.001	<0.003	
Irrigation Well	9/2/2015	0.0022	<0.001	0.0089	0.0036	
Irrigation Well	3/23/2016	NS	NS	NS	NS	
Irrigation Well	9/27/2016	<0.005	<0.005	<0.005	<0.015	
MW-A	9/14/2011	0.001	<0.002	0.0753	0.217	
MW-A	3/6/2012	0.00073	<0.002	0.081	0.222	
MW-A	9/7/2012	0.00087	<0.002	0.076	0.206	
MW-A	2/21/2013	0.00077	<0.002	0.0713	0.189	Duplicate A sample collected
MW-A	9/13/2013	<0.0010	<0.002	0.0732	0.179	
MW-A	2/27/2014	0.00029 J	<0.002	0.0636	0.151	
MW-A	9/24/2014	Well Not Sampled due to Inclement Weather				
MW-A	2/26/2015	<0.001	<0.001	0.050	0.13	
MW-A	9/2/2015	<0.001	<0.001	0.042	0.10	
MW-A	3/23/2016	<0.0010	<0.0010	0.044	0.097	
MW-A	9/27/2017	<0.0050	<0.0050	0.035	0.075	
MW-E	9/14/2011	0.0043	<0.002	0.00097	<0.004	
MW-E	3/7/2012	0.0025	<0.002	<0.002	<0.004	
MW-E	9/7/2012	0.0018	<0.002	<0.002	<0.003	
MW-E	2/21/2013	0.0027	<0.002	<0.002	<0.003	
MW-E	9/13/2013	0.0015	<0.002	<0.002	<0.003	
MW-E	2/27/2014	0.0016	<0.002	<0.002	<0.003	
MW-E	9/25/2014	0.0067	<0.001	0.0027	0.0151	
MW-E	2/26/2015	0.0038	<0.001	<0.001	<0.003	
MW-E	9/3/2015	0.0084	<0.001	<0.001	<0.003	
MW-E	3/22/2016	0.0012	<0.0010	<0.0010	<0.0030	
MW-E	9/27/2017	0.0088	<0.0010	<0.0010	<0.0030	
MW-F	9/14/2011	<0.001	<0.002	<0.002	<0.004	
MW-F	3/7/2012	<0.001	<0.002	<0.002	<0.004	
MW-F	9/7/2012	<0.001	<0.002	<0.002	<0.003	
MW-F	2/21/2013	<0.001	<0.002	<0.002	<0.003	
MW-F	9/13/2013	<0.001	<0.002	<0.002	<0.003	
MW-F	2/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-F	9/25/2014	<0.001	<0.001	<0.001	<0.001	
MW-F	2/26/2015	<0.001	<0.001	<0.001	<0.003	
MW-F	9/3/2015	<0.001	<0.001	<0.001	<0.003	
MW-F	3/22/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-F	9/27/2017	<0.0010	<0.0010	<0.0010	<0.0030	
MW-I	9/14/2011	0.00082	<0.002	<0.002	<0.004	
MW-I	3/6/2012	0.00068	<0.002	<0.002	<0.004	
MW-I	9/6/2012	0.00043	<0.002	<0.002	<0.003	
MW-I	2/21/2013	0.00035	<0.002	<0.002	<0.003	
MW-I	9/13/2013	0.00028	<0.002	<0.002	<0.003	
MW-I	2/27/2014	0.00033 J	<0.002	<0.002	<0.003	
MW-I	9/24/2014	Well Not Sampled due to Inclement Weather				

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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-I	2/26/2015	<0.001	<0.001	<0.001	<0.003	
MW-I	9/3/2015	<0.001	<0.001	<0.001	<0.003	
MW-I	3/22/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-I	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-J	9/14/2011	<0.001	<0.002	<0.002	<0.004	
MW-J	3/6/2012	<0.001	<0.002	<0.002	<0.004	
MW-J	9/6/2012	<0.001	<0.002	<0.002	<0.003	
MW-J	2/21/2013	<0.001	<0.002	<0.002	<0.003	
MW-J	9/13/2013	<0.001	<0.002	<0.002	<0.003	
MW-J	2/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-J	Removed in 2H13					
MW-M	9/14/2011	**8.53**	<0.20	0.347	0.214	
MW-M	3/8/2012	**3.72**	<0.20	0.296	<0.40	
MW-M	9/6/2012	**1.27**	<0.10	0.188	0.107	
MW-M	2/20/2013	**0.647**	<0.02	0.192	0.087	
MW-M	9/12/2013	**0.313**	<0.01	0.184	0.0417	
MW-M	2/27/2014	**0.205**	<0.01	0.171	0.0271	
MW-M	9/24/2014	Well Not Sampled due to Inclement Weather				
MW-M	2/25/2015	**7.5**	**2.2**	0.37	**0.80**	
MW-M	9/2/2015	**6.6**	**0.13**	0.40	0.24	
MW-M	3/22/2016	**5.3**	0.012	0.45	0.084	
MW-M	9/27/2016	**2.8**	<0.010	0.39	<0.03	
MW-N	9/14/2011	**15.0**	**0.982**	0.315	0.380	
MW-N	3/8/2012	**15.4**	**2.21**	0.417	0.414	
MW-N	9/6/2012	**13.7**	**3.47**	0.603	**2.00**	
MW-N	2/20/2013	**14.9**	0.173	0.282	0.0714	Duplicate B sample collected
MW-N	9/12/2013	LNAPL				
MW-N	2/27/2014	LNAPL				
MW-N	9/24/2014	**15.4**	**4.18**	0.637	**1.5**	
MW-N	2/25/2015	LNAPL				
MW-N	9/2/2015	**4.6**	**0.81**	0.49	**0.94**	
MW-N	3/22/2016	**5.5**	**0.95**	0.46	**0.78**	
MW-N	9/27/2017	LNAPL				
MW-O	9/14/2011	**6.93**	0.0022	0.244	<0.004	
MW-O	3/8/2012	**7.61**	<0.20	0.195	<0.40	
MW-O	9/6/2012	**8.04**	<0.10	0.185	<0.15	
MW-O	2/20/2013	**10.5**	<0.10	0.131	<0.15	
MW-O	9/12/2013	**8.27**	<0.20	0.121	<0.30	
MW-O	2/27/2014	**8.72**	<0.10	0.0685 J	<0.15	Duplicate B sample collected
MW-O (duplicate)	2/27/2014	**8.86**	<0.01	0.0861	<0.015	
MW-O	9/24/2014	**5.41**	<0.05	0.0514	<0.05	
MW-O	2/25/2015	**2.5**	<0.005	0.14	0.018	
MW-O	9/2/2015	**3.0**	<0.005	0.15	<0.015	
MW-O	3/22/2016	**2.4**	<0.0050	0.17	<0.015	
MW-O	9/27/2017	**2.4**	<0.0050	0.0880	<0.015	
MW-Q	9/14/2011	**0.896**	<0.002	0.0108	<0.004	
MW-Q	3/8/2012	**0.814**	<0.02	<0.02	<0.04	
MW-Q	9/6/2012	**0.738**	<0.002	0.0062	<0.003	
MW-Q	2/20/2013	**0.750**	<0.01	0.0017	<0.015	

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HISTORIC ANALYTICAL RESULTS
BTEX CONCENTRATIONS IN GROUNDWATER
ELDRIDGE PIPELINE RELEASE
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-Q	9/12/2013	**0.530**	<0.01	0.0015	<0.015	
MW-Q	2/27/2014	**0.0707**	<0.002	0.00097 J	<0.003	
MW-Q	9/24/2014	<0.001	<0.001	<0.001	<0.001	
MW-Q	2/25/2015	0.0024	<0.001	<0.001	<0.003	
MW-Q	9/2/2015	<0.001	<0.001	<0.001	<0.003	
MW-Q	3/22/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-Q	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-S	9/14/2011	<0.001	<0.002	<0.002	<0.004	
MW-S	3/8/2012	<0.001	<0.002	<0.002	<0.004	
MW-S	9/6/2012	<0.001	<0.002	<0.002	<0.003	
MW-S	2/20/2013	<0.001	<0.002	<0.002	<0.003	
MW-S	9/12/2013	<0.001	<0.002	<0.002	<0.003	
MW-S	2/27/2014	<0.001	<0.002	<0.002	<0.003	
MW-S	9/24/2014	<0.001	<0.001	<0.001	<0.001	
MW-S	2/25/2015	<0.001	<0.001	<0.001	<0.003	
MW-S	9/2/2015	<0.001	<0.001	<0.001	<0.003	
MW-S	3/22/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-S	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-CC	4/25/2011	LNAPL				
MW-CC	9/14/2011	LNAPL				
MW-CC	3/8/2012	LNAPL				
MW-CC	9/6/2012	LNAPL				
MW-CC	2/19/2013	LNAPL				
MW-CC	9/13/2013	LNAPL				
MW-CC	2/27/2014	LNAPL				
MW-CC	9/24/2014	LNAPL				
MW-CC	2/25/2015	LNAPL				
MW-CC	9/2/2015	LNAPL				
MW-CC	3/22/2016	LNAPL				
MW-CC	9/27/2016	LNAPL				
MW-EE	9/14/2011	**0.447**	<0.002	0.0089	0.0041	Duplicate A sample collected
MW-EE	3/8/2012	**0.0735**	<0.002	0.0011	<0.004	
MW-EE	9/6/2012	**0.0964**	<0.002	0.0011	<0.003	
MW-EE	2/19/2013	**0.424**	<0.002	0.0024	0.0022	
MW-EE	9/12/2013	**1.11**	<0.01	0.0021	<0.015	
MW-EE	2/26/2014	**1.21**	<0.02	<0.02	<0.03	Duplicate A sample collected
MW-EE (duplicate)	2/26/2014	**1.43**	<0.05	<0.05	<0.075	
MW-EE	9/24/2014	Well Not Sampled due to Inclement Weather				
MW-EE	2/25/2015	**0.21**	<0.005	<0.005	<0.015	
MW-EE	9/2/2015	**0.12**	<0.001	<0.001	<0.003	
MW-EE	3/22/2016	**0.37**	<0.0010	<0.0010	<0.0030	
MW-EE	9/27/2016	**0.041**	<0.0010	<0.0010	<0.0030	
MW-LL	9/14/2011	**1.23**	0.0066	0.0531	0.0202	
MW-LL	3/8/2012	**1.42**	<0.02	0.0642	<0.04	
MW-LL	9/6/2012	**0.523**	<0.002	0.0261	0.0024	
MW-LL	2/20/2013	**0.778**	<0.01	0.0482	<0.015	
MW-LL	9/12/2013	**0.403**	<0.01	0.0237	<0.015	
MW-LL	2/27/2014	**0.491**	<0.01	0.0214	<0.015	
MW-LL	9/24/2014	Well Not Sampled due to Inclement Weather				
MW-LL	2/25/2015	**0.59**	0.24	0.11	0.21	
MW-LL	9/2/2015	**0.53**	0.034	0.11	0.15	

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ELDRIDGE PIPELINE RELEASE
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-LL	3/22/2016	**0.35**	<0.0050	0.076	0.066	
MW-LL	9/27/2016	**0.37**	0.13	0.058	0.076	
MW-MM	9/14/2011	0.0082	<0.002	0.022	<0.004	
MW-MM	3/8/2012	0.0032	<0.002	0.0053	<0.004	
MW-MM	9/6/2012	0.002	<0.002	0.0041	<0.003	
MW-MM	2/19/2013	0.0015	<0.002	0.00083	<0.003	
MW-MM	9/12/2013	0.00088	<0.002	<0.002	<0.003	
MW-MM	2/26/2014	0.00051 J	<0.002	<0.002	<0.003	
MW-MM	9/24/2014	<0.001	<0.001	<0.001	<0.001	
MW-MM	2/25/2015	<0.001	<0.001	<0.001	<0.003	
MW-MM	9/2/2015	<0.001	<0.001	<0.001	<0.003	
MW-MM	3/22/2016	<0.0010	<0.0010	<0.0010	<0.0030	
MW-MM	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-2	9/14/2011	<0.001	<0.002	<0.002	<0.004	
NMG MW-2	3/7/2012	<0.001	<0.002	<0.002	<0.004	
NMG MW-2	9/5/2012	<0.001	<0.002	<0.002	<0.003	
NMG MW-2	2/20/2013	<0.001	<0.002	<0.002	<0.003	
NMG MW-2	9/12/2013	<0.001	<0.002	<0.002	<0.003	
NMG MW-2	2/26/2014	<0.001	<0.002	<0.002	<0.003	
NMG MW-2	9/24/2014	<0.001	<0.001	<0.001	<0.001	
NMG MW-2	2/25/2015	<0.001	<0.001	<0.001	<0.003	
NMG MW-2	9/2/2015	<0.001	<0.001	<0.001	<0.003	
NMG MW-2	3/22/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-2	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-3	9/14/2011	<0.001	<0.002	<0.002	<0.004	
NMG MW-3	3/7/2012	<0.001	<0.002	<0.002	<0.004	
NMG MW-3	9/5/2012	<0.001	<0.002	<0.002	<0.003	
NMG MW-3	2/20/2013	<0.001	<0.002	<0.002	<0.003	
NMG MW-3	9/12/2013	<0.001	<0.002	<0.002	<0.003	
NMG MW-3	9/12/2013	<0.001	<0.002	<0.002	<0.003	
NMG MW-3	2/26/2014	<0.001	<0.002	<0.002	<0.003	
NMG MW-3	9/24/2014	<0.001	<0.001	<0.001	<0.001	
NMG MW-3	2/25/2015	<0.001	<0.001	<0.001	<0.003	
NMG MW-3	9/2/2015	<0.001	<0.001	<0.001	<0.003	
NMG MW-3	3/22/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-3	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-4	9/14/2011	<0.001	<0.002	<0.002	<0.004	
NMG MW-4	3/7/2012	<0.001	<0.002	<0.002	<0.004	
NMG MW-4	9/5/2012	<0.001	<0.002	<0.002	<0.003	
NMG MW-4	2/19/2013	<0.001	<0.002	<0.002	<0.003	
NMG MW-4	2/26/2014	<0.001	<0.002	<0.002	<0.003	
NMG MW-4	9/24/2014	<0.001	<0.001	<0.001	<0.001	
NMG MW-4	2/25/2015	<0.001	<0.001	<0.001	<0.003	
NMG MW-4	9/2/2015	<0.001	<0.001	<0.001	<0.003	
NMG MW-4	3/22/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-4	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-5	9/14/2011	**0.0375**	<0.004	0.135	<0.008	
NMG MW-5	3/7/2012	0.0039	<0.002	0.229	<0.004	
NMG MW-5	9/5/2012	0.00083	<0.002	0.153	<0.003	
NMG MW-5	2/19/2013	0.0012	<0.002	0.0608	<0.003	

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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**	
NMG MW-5	9/12/2013	0.0047	<0.002	0.0321	<0.003	
NMG MW-5	2/26/2014	**0.0206**	<0.002	0.0034	<0.003	
NMG MW-5	9/24/2014	**0.0542**	<0.001	0.00034 J	0.0016	
NMG MW-5	2/25/2015	<0.001	<0.001	<0.001	<0.003	
NMG MW-5	9/2/2015	<0.001	<0.001	<0.001	<0.003	
NMG MW-5	3/22/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-5	9/27/2016	DRY				
NMG MW-6	9/14/2011	0.0005	<0.002	0.0067	<0.004	
NMG MW-6	3/7/2012	0.00062	<0.002	0.0011	<0.004	
NMG MW-6	9/5/2012	0.00038	<0.002	0.00066	<0.003	
NMG MW-6	2/19/2013	<0.001	<0.002	<0.002	<0.003	
NMG MW-6	9/12/2013	<0.001	<0.002	0.00034	<0.003	
NMG MW-6	2/26/2014	<0.001	<0.002	<0.002	<0.003	
NMG MW-6	9/24/2014	<0.001	<0.001	<0.001	<0.001	
NMG MW-6	2/25/2015	<0.001	<0.001	<0.001	<0.003	
NMG MW-6	9/2/2015	<0.001	<0.001	<0.001	<0.003	
NMG MW-6	3/22/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-6	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-7	9/14/2011	**0.0273**	<0.002	0.0154	0.013	
NMG MW-7	3/7/2012	**0.0261**	<0.002	0.0144	0.0086	
NMG MW-7	9/5/2012	**0.0188**	<0.002	0.0082	0.0043	
NMG MW-7	2/20/2013	**0.0116**	<0.002	0.0050	0.0032	
NMG MW-7	9/12/2013	0.009	<0.002	0.0067	0.0023	
NMG MW-7	2/26/2014	0.0059	<0.002	0.0055	<0.003	
NMG MW-7	9/24/2014	0.0011	<0.001	0.00053 J	<0.001	
NMG MW-7	2/25/2015	<0.001	<0.001	<0.001	<0.003	
NMG MW-7	9/2/2015	<0.001	<0.001	<0.001	<0.003	
NMG MW-7	3/22/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-7	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-8	9/14/2011	<0.001	<0.002	<0.002	<0.004	
NMG MW-8	3/7/2012	<0.001	<0.002	<0.002	<0.004	
NMG MW-8	9/5/2012	<0.001	<0.002	<0.002	<0.003	
NMG MW-8	2/19/2013	<0.001	<0.002	<0.002	<0.003	
NMG MW-8	9/12/2013	<0.001	<0.002	<0.002	<0.003	
NMG MW-8	2/26/2014	<0.001	<0.002	<0.002	<0.003	
NMG MW-8	9/24/2014	0.0013	<0.001	0.0194	0.0520	
NMG MW-8	2/25/2015	<0.001	<0.001	<0.001	<0.003	
NMG MW-8	9/2/2015	<0.001	<0.001	<0.001	<0.003	
NMG MW-8	3/22/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-8	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-9	9/14/2011	<0.001	<0.002	<0.002	<0.004	
NMG MW-9	3/7/2012	<0.001	<0.002	<0.002	<0.004	
NMG MW-9	9/5/2012	<0.001	<0.002	<0.002	<0.003	
NMG MW-9	2/19/2013	<0.001	<0.002	<0.002	<0.003	
NMG MW-9	9/12/2013	<0.001	<0.002	<0.002	<0.003	
NMG MW-9	2/26/2014	<0.001	<0.002	<0.002	<0.003	
NMG MW-9	Removed in 2H13					
NMG MW-10	9/14/2011	**0.282**	<0.010	0.105	0.155	
NMG MW-10	3/7/2012	**0.219**	<0.002	0.085	0.0993	Duplicate B sample collected
NMG MW-10	9/5/2012	**0.192**	<0.002	0.0836	0.0895	Duplicate B sample collected

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LEA COUNTY, NEW MEXICO

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NMWQCC Groundwater Standards (mg/L)		**0.01**	**0.75**	**0.75**	**0.62**	
NMG MW-10	2/19/2013	**0.187**	<0.002	0.0805	0.0706	
NMG MW-10	9/12/2013	**0.179**	<0.002	0.0809	0.0656	Duplicate B sample collected
NMG MW-10	2/26/2014	**0.145**	<0.01	0.0582	0.0382	
NMG MW-10	9/24/2014	**0.0621**	<0.001	0.0119	0.0229	Duplicate A Sample Collected
NMG MW-10	9/24/2014	**0.0593**	<0.001	0.0114	0.0217	
NMG MW-10	2/25/2015	0.0064	<0.001	<0.001	<0.003	Duplicate A Sample Collected
NMG MW-10 (Duplicate)	2/25/2015	0.0052	<0.001	<0.001	<0.003	
NMG MW-10	9/2/2015	**0.018**	<0.001	0.0034	0.0052	Duplicate A Sample Collected
NMG MW-10 (Duplicate)	9/2/2015	**0.016**	<0.001	0.0029	0.0047	
NMG MW-10	3/22/2016	**0.012**	<0.0010	0.0028	0.0055	Duplicate A Sample Collected
NMG MW-10 (Duplicate)	3/22/2016	**0.013**	<0.0050	<0.0050	<0.015	
NMG MW-10	9/27/2016	0.0071	<0.0010	<0.0010	<0.0030	Duplicate A Sample Collected
NMG MW-10 (Duplicate)	9/27/2016	0.0075	<0.0050	<0.0050	<0.015	
NMG MW-11	9/14/2011	<0.001	<0.002	<0.002	<0.004	
NMG MW-11	3/7/2012	<0.001	<0.002	<0.002	<0.004	
NMG MW-11	9/5/2012	<0.001	<0.002	<0.002	<0.003	
NMG MW-11	2/19/2013	<0.001	<0.002	<0.002	<0.003	Duplicate C sample collected
NMG MW-11	9/12/2013	<0.001	<0.002	<0.002	<0.003	
NMG MW-11	2/26/2014	<0.001	<0.002	<0.002	<0.003	
NMG MW-11	9/24/2014	<0.001	<0.001	<0.001	<0.001	
NMG MW-11	2/25/2015	<0.001	<0.001	<0.001	<0.003	
NMG MW-11	9/2/2015	<0.001	<0.001	<0.001	<0.003	
NMG MW-11	3/22/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-11	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-12	9/14/2011	0.0013	<0.002	<0.002	<0.004	
NMG MW-12	3/7/2012	0.0062	<0.002	<0.002	<0.004	
NMG MW-12	9/5/2012	0.0012	<0.002	<0.002	<0.003	
NMG MW-12	2/19/2013	0.0024	<0.002	<0.002	<0.003	
NMG MW-12	9/12/2013	0.00087	<0.002	<0.002	<0.003	
NMG MW-12	2/26/2014	0.00035 J	<0.002	<0.002	<0.003	
NMG MW-12	9/24/2014	0.0017	<0.001	<0.001	<0.001	
NMG MW-12	2/25/2015	<0.001	<0.001	<0.001	<0.003	
NMG MW-12	9/2/2015	<0.001	<0.001	<0.001	<0.003	
NMG MW-12	3/22/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-12	9/27/2016	Obstruction in well @ 17.97'				
NMG MW-13	9/14/2011	<0.001	<0.002	<0.002	<0.004	
NMG MW-13	3/7/2012	<0.001	<0.002	<0.002	<0.004	
NMG MW-13	9/5/2012	<0.001	<0.002	<0.002	<0.003	
NMG MW-13	2/20/2013	<0.001	<0.002	<0.002	<0.003	
NMG MW-13	9/12/2013	<0.001	<0.002	<0.002	<0.003	
NMG MW-13	9/24/2014	<0.001	<0.001	<0.001	<0.001	
NMG MW-13	2/25/2015	<0.001	<0.001	<0.001	<0.003	
NMG MW-13	9/2/2015	<0.001	<0.001	<0.001	<0.003	
NMG MW-13	3/22/2016	<0.0010	<0.0010	<0.0010	<0.0030	
NMG MW-13	9/27/2016	Obstruction @ 16.35'				
Trip Blank	9/25/2014	<0.001	<0.001	<0.001	<0.001	
Trip Blank	9/2/2015	<0.001	<0.001	<0.001	<0.003	
Trip Blank	2/25/2015	<0.001	<0.001	<0.001	<0.003	
Trip Blank	9/2/2015	<0.001	<0.001	<0.001	<0.003	
Trip Blank	3/22/2016	<0.0010	<0.0010	<0.0010	<0.0030	

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NMWQCC Groundwater Standards (mg/L)		**0.01**	**0.75**	**0.75**	**0.62**	
Trip Blank	9/27/2016	<0.0010	<0.0010	<0.0010	<0.0030	

Notes:

Bold red 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

Notes:

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

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

Appendix B

Laboratory Analytical Report

- ALS Environmental Job #: HS16100008

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

October 04, 2016

Brian Humphrey
Tasman Geosciences
6899 Pecos St
Unit C
Denver, CO 80221

Work Order: **HS16100008**

Laboratory Results for: **DCP Eldridge Ranch**

Dear Brian,

ALS Environmental received 45 sample(s) on Oct 01, 2016 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,

Sonia West

Generated By: Jumoke.Lawal
Sonia West
Project Manager

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Work Order: HS16100008

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS16100008-01	MW-1	Water		27-Sep-2016 11:59	01-Oct-2016 10:30	☐
HS16100008-02	MW-1D	Water		27-Sep-2016 12:03	01-Oct-2016 10:30	☐
HS16100008-03	MW-4	Water		27-Sep-2016 12:55	01-Oct-2016 10:30	☐
HS16100008-04	MW-5	Water		27-Sep-2016 13:10	01-Oct-2016 10:30	☐
HS16100008-05	MW-6	Water		27-Sep-2016 13:42	01-Oct-2016 10:30	☐
HS16100008-06	MW-8	Water		27-Sep-2016 15:00	01-Oct-2016 10:30	☐
HS16100008-07	MW-10	Water		27-Sep-2016 15:20	01-Oct-2016 10:30	☐
HS16100008-08	MW-11	Water		27-Sep-2016 14:55	01-Oct-2016 10:30	☐
HS16100008-09	MW-12	Water		27-Sep-2016 15:04	01-Oct-2016 10:30	☐
HS16100008-10	MW-14	Water		27-Sep-2016 11:50	01-Oct-2016 10:30	☐
HS16100008-11	MW-17	Water		27-Sep-2016 11:20	01-Oct-2016 10:30	☐
HS16100008-12	MW-18	Water		27-Sep-2016 14:15	01-Oct-2016 10:30	☐
HS16100008-13	MW-19	Water		27-Sep-2016 14:20	01-Oct-2016 10:30	☐
HS16100008-14	MW-20	Water		27-Sep-2016 15:20	01-Oct-2016 10:30	☐
HS16100008-15	MW-22	Water		27-Sep-2016 12:05	01-Oct-2016 10:30	☐
HS16100008-16	MW-23	Water		27-Sep-2016 11:25	01-Oct-2016 10:30	☐
HS16100008-17	MW-24	Water		27-Sep-2016 11:10	01-Oct-2016 10:30	☐
HS16100008-18	MW-25	Water		27-Sep-2016 09:30	01-Oct-2016 10:30	☐
HS16100008-19	MW-26	Water		27-Sep-2016 11:05	01-Oct-2016 10:30	☐
HS16100008-20	MW-29	Water		27-Sep-2016 10:40	01-Oct-2016 10:30	☐
HS16100008-21	MW-A	Water		27-Sep-2016 12:00	01-Oct-2016 10:30	☐
HS16100008-22	MW-E	Water		27-Sep-2016 13:59	01-Oct-2016 10:30	☐
HS16100008-23	MW-F	Water		27-Sep-2016 14:02	01-Oct-2016 10:30	☐
HS16100008-24	MW-I	Water		27-Sep-2016 14:50	01-Oct-2016 10:30	☐
HS16100008-25	MW-M	Water		27-Sep-2016 14:20	01-Oct-2016 10:30	☐
HS16100008-26	MW-O	Water		27-Sep-2016 13:10	01-Oct-2016 10:30	☐
HS16100008-27	MW-Q	Water		27-Sep-2016 12:55	01-Oct-2016 10:30	☐

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Work Order: HS16100008

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS16100008-28	MW-S	Water		27-Sep-2016 12:40	01-Oct-2016 10:30	☐
HS16100008-29	MW-EE	Water		27-Sep-2016 11:20	01-Oct-2016 10:30	☐
HS16100008-30	MW-LL	Water		27-Sep-2016 13:45	01-Oct-2016 10:30	☐
HS16100008-31	MW-MM	Water		27-Sep-2016 11:30	01-Oct-2016 10:30	☐
HS16100008-32	NMG MW-2	Water		27-Sep-2016 07:55	01-Oct-2016 10:30	☐
HS16100008-33	NMG MW-3	Water		27-Sep-2016 07:40	01-Oct-2016 10:30	☐
HS16100008-34	NMG MW-4	Water		27-Sep-2016 09:15	01-Oct-2016 10:30	☐
HS16100008-35	NMG MW-6	Water		27-Sep-2016 08:20	01-Oct-2016 10:30	☐
HS16100008-36	NMG MW-7	Water		27-Sep-2016 08:37	01-Oct-2016 10:30	☐
HS16100008-37	NMG MW-8	Water		27-Sep-2016 08:30	01-Oct-2016 10:30	☐
HS16100008-38	NMG MW-10	Water		27-Sep-2016 09:05	01-Oct-2016 10:30	☐
HS16100008-39	NMG MW-11	Water		27-Sep-2016 08:50	01-Oct-2016 10:30	☐
HS16100008-40	House Well	Water		27-Sep-2016 11:33	01-Oct-2016 10:30	☐
HS16100008-41	Irrigation Well	Water		27-Sep-2016 10:40	01-Oct-2016 10:30	☐
HS16100008-42	Duplicate A	Water		27-Sep-2016 00:00	01-Oct-2016 10:30	☐
HS16100008-43	Duplicate B	Water		27-Sep-2016 00:00	01-Oct-2016 10:30	☐
HS16100008-44	Duplicate C	Water		27-Sep-2016 00:00	01-Oct-2016 10:30	☐
HS16100008-45	Trip Blank 1 (091516-09)	Water		27-Sep-2016 00:00	01-Oct-2016 10:30	☐

Client: Tasman Geosciences **CASE NARRATIVE**
Project: DCP Eldridge Ranch
Work Order: HS16100008

GCMS Volatiles by Method SW8260

Batch ID: R282427

Sample ID: **Duplicate C (HS16100008-44)**
Sample ID: **Irrigation Well (HS16100008-41)**
• Lowest practical dilution due to high concentration of non-target analyte(s).

Batch ID: R282405

Sample ID: **MW-4 (HS16100008-03)**
Sample ID: **MW-8 (HS16100008-06)**
Sample ID: **MW-A (HS16100008-21)**
Sample ID: **MW-LL (HS16100008-30)**
• Lowest practical dilution due to high concentration of non-target analyte(s).

Batch ID: R282346,R282402,R282403

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-1
Collection Date: 27-Sep-2016 11:59

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: PC
Benzene	ND		0.0010	mg/L	1	02-Oct-2016 15:43
Toluene	ND		0.0010	mg/L	1	02-Oct-2016 15:43
Ethylbenzene	**0.010**		**0.0010**	**mg/L**	1	02-Oct-2016 15:43
Xylenes, Total	**0.0033**		**0.0030**	**mg/L**	1	02-Oct-2016 15:43
Surr: 1,2-Dichloroethane-d4	*89.2*		*71-125*	*%REC*	*1*	*02-Oct-2016 15:43*
Surr: 4-Bromofluorobenzene	*89.2*		*70-125*	*%REC*	*1*	*02-Oct-2016 15:43*
Surr: Dibromofluoromethane	*94.0*		*74-125*	*%REC*	*1*	*02-Oct-2016 15:43*
Surr: Toluene-d8	*102*		*75-125*	*%REC*	*1*	*02-Oct-2016 15:43*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-1D
Collection Date: 27-Sep-2016 12:03

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-02
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	03-Oct-2016 16:50
Toluene	ND		0.0010	mg/L	1	03-Oct-2016 16:50
Ethylbenzene	ND		0.0010	mg/L	1	03-Oct-2016 16:50
Xylenes, Total	ND		0.0030	mg/L	1	03-Oct-2016 16:50
Surr: 1,2-Dichloroethane-d4	*95.3*		*71-125*	*%REC*	*1*	*03-Oct-2016 16:50*
Surr: 4-Bromofluorobenzene	*88.0*		*70-125*	*%REC*	*1*	*03-Oct-2016 16:50*
Surr: Dibromofluoromethane	*97.1*		*74-125*	*%REC*	*1*	*03-Oct-2016 16:50*
Surr: Toluene-d8	*102*		*75-125*	*%REC*	*1*	*03-Oct-2016 16:50*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-4
Collection Date: 27-Sep-2016 12:55

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-03
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**0.0062**		**0.0050**	**mg/L**	5	03-Oct-2016 17:25
Toluene	**0.0084**		**0.0050**	**mg/L**	5	03-Oct-2016 17:25
Ethylbenzene	**0.053**		**0.0050**	**mg/L**	5	03-Oct-2016 17:25
Xylenes, Total	**0.10**		**0.015**	**mg/L**	5	03-Oct-2016 17:25
Surr: 1,2-Dichloroethane-d4	*117*		*71-125*	*%REC*	*5*	*03-Oct-2016 17:25*
Surr: 4-Bromofluorobenzene	*99.8*		*70-125*	*%REC*	*5*	*03-Oct-2016 17:25*
Surr: Dibromofluoromethane	*93.1*		*74-125*	*%REC*	*5*	*03-Oct-2016 17:25*
Surr: Toluene-d8	*104*		*75-125*	*%REC*	*5*	*03-Oct-2016 17:25*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-5
Collection Date: 27-Sep-2016 13:10

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-04
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	03-Oct-2016 17:15
Toluene	ND		0.0010	mg/L	1	03-Oct-2016 17:15
Ethylbenzene	ND		0.0010	mg/L	1	03-Oct-2016 17:15
Xylenes, Total	ND		0.0030	mg/L	1	03-Oct-2016 17:15
Surr: 1,2-Dichloroethane-d4	*86.7*		*71-125*	*%REC*	*1*	*03-Oct-2016 17:15*
Surr: 4-Bromofluorobenzene	*89.5*		*70-125*	*%REC*	*1*	*03-Oct-2016 17:15*
Surr: Dibromofluoromethane	*90.9*		*74-125*	*%REC*	*1*	*03-Oct-2016 17:15*
Surr: Toluene-d8	*102*		*75-125*	*%REC*	*1*	*03-Oct-2016 17:15*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-6
Collection Date: 27-Sep-2016 13:42

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-05
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	03-Oct-2016 17:40
Toluene	ND		0.0010	mg/L	1	03-Oct-2016 17:40
Ethylbenzene	ND		0.0010	mg/L	1	03-Oct-2016 17:40
Xylenes, Total	ND		0.0030	mg/L	1	03-Oct-2016 17:40
Surr: 1,2-Dichloroethane-d4	*88.4*		*71-125*	*%REC*	*1*	*03-Oct-2016 17:40*
Surr: 4-Bromofluorobenzene	*88.0*		*70-125*	*%REC*	*1*	*03-Oct-2016 17:40*
Surr: Dibromofluoromethane	*94.9*		*74-125*	*%REC*	*1*	*03-Oct-2016 17:40*
Surr: Toluene-d8	*99.9*		*75-125*	*%REC*	*1*	*03-Oct-2016 17:40*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-8
Collection Date: 27-Sep-2016 15:00

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-06
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**0.0052**		**0.0050**	**mg/L**	5	03-Oct-2016 17:52
Toluene	**0.0058**		**0.0050**	**mg/L**	5	03-Oct-2016 17:52
Ethylbenzene	**0.012**		**0.0050**	**mg/L**	5	03-Oct-2016 17:52
Xylenes, Total	ND		0.015	mg/L	5	03-Oct-2016 17:52
Surr: 1,2-Dichloroethane-d4	*121*		*71-125*	*%REC*	*5*	*03-Oct-2016 17:52*
Surr: 4-Bromofluorobenzene	*101*		*70-125*	*%REC*	*5*	*03-Oct-2016 17:52*
Surr: Dibromofluoromethane	*101*		*74-125*	*%REC*	*5*	*03-Oct-2016 17:52*
Surr: Toluene-d8	*102*		*75-125*	*%REC*	*5*	*03-Oct-2016 17:52*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-10
Collection Date: 27-Sep-2016 15:20

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-07
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	03-Oct-2016 18:05
Toluene	ND		0.0010	mg/L	1	03-Oct-2016 18:05
Ethylbenzene	ND		0.0010	mg/L	1	03-Oct-2016 18:05
Xylenes, Total	ND		0.0030	mg/L	1	03-Oct-2016 18:05
Surr: 1,2-Dichloroethane-d4	*91.2*		*71-125*	*%REC*	*1*	*03-Oct-2016 18:05*
Surr: 4-Bromofluorobenzene	*88.6*		*70-125*	*%REC*	*1*	*03-Oct-2016 18:05*
Surr: Dibromofluoromethane	*94.1*		*74-125*	*%REC*	*1*	*03-Oct-2016 18:05*
Surr: Toluene-d8	*98.4*		*75-125*	*%REC*	*1*	*03-Oct-2016 18:05*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-11
Collection Date: 27-Sep-2016 14:55

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-08
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**0.45**		**0.010**	**mg/L**	10	03-Oct-2016 14:40
Toluene	**0.0013**		**0.0010**	**mg/L**	1	02-Oct-2016 16:08
Ethylbenzene	ND		0.0010	mg/L	1	02-Oct-2016 16:08
Xylenes, Total	**0.18**		**0.0030**	**mg/L**	1	02-Oct-2016 16:08
Surr: 1,2-Dichloroethane-d4	*93.9*		*71-125*	*%REC*	*1*	*02-Oct-2016 16:08*
Surr: 1,2-Dichloroethane-d4	*123*		*71-125*	*%REC*	*10*	*03-Oct-2016 14:40*
Surr: 4-Bromofluorobenzene	*94.6*		*70-125*	*%REC*	*1*	*02-Oct-2016 16:08*
Surr: 4-Bromofluorobenzene	*100*		*70-125*	*%REC*	*10*	*03-Oct-2016 14:40*
Surr: Dibromofluoromethane	*97.7*		*74-125*	*%REC*	*1*	*02-Oct-2016 16:08*
Surr: Dibromofluoromethane	*100*		*74-125*	*%REC*	*10*	*03-Oct-2016 14:40*
Surr: Toluene-d8	*104*		*75-125*	*%REC*	*1*	*02-Oct-2016 16:08*
Surr: Toluene-d8	*105*		*75-125*	*%REC*	*10*	*03-Oct-2016 14:40*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-12
Collection Date: 27-Sep-2016 15:04

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-09
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**3.9**		**0.050**	**mg/L**	50	03-Oct-2016 15:08
Toluene	ND		0.0010	mg/L	1	02-Oct-2016 16:32
Ethylbenzene	**0.17**		**0.0010**	**mg/L**	1	02-Oct-2016 16:32
Xylenes, Total	**0.013**		**0.0030**	**mg/L**	1	02-Oct-2016 16:32
Surr: 1,2-Dichloroethane-d4	*92.4*		*71-125*	*%REC*	*1*	*02-Oct-2016 16:32*
Surr: 1,2-Dichloroethane-d4	*118*		*71-125*	*%REC*	*50*	*03-Oct-2016 15:08*
Surr: 4-Bromofluorobenzene	*90.8*		*70-125*	*%REC*	*1*	*02-Oct-2016 16:32*
Surr: 4-Bromofluorobenzene	*96.8*		*70-125*	*%REC*	*50*	*03-Oct-2016 15:08*
Surr: Dibromofluoromethane	*94.5*		*74-125*	*%REC*	*1*	*02-Oct-2016 16:32*
Surr: Dibromofluoromethane	*111*		*74-125*	*%REC*	*50*	*03-Oct-2016 15:08*
Surr: Toluene-d8	*101*		*75-125*	*%REC*	*1*	*02-Oct-2016 16:32*
Surr: Toluene-d8	*105*		*75-125*	*%REC*	*50*	*03-Oct-2016 15:08*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-14
Collection Date: 27-Sep-2016 11:50

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-10
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	03-Oct-2016 18:30
Toluene	ND		0.0010	mg/L	1	03-Oct-2016 18:30
Ethylbenzene	ND		0.0010	mg/L	1	03-Oct-2016 18:30
Xylenes, Total	ND		0.0030	mg/L	1	03-Oct-2016 18:30
Surr: 1,2-Dichloroethane-d4	*95.6*		*71-125*	*%REC*	*1*	*03-Oct-2016 18:30*
Surr: 4-Bromofluorobenzene	*85.0*		*70-125*	*%REC*	*1*	*03-Oct-2016 18:30*
Surr: Dibromofluoromethane	*97.5*		*74-125*	*%REC*	*1*	*03-Oct-2016 18:30*
Surr: Toluene-d8	*101*		*75-125*	*%REC*	*1*	*03-Oct-2016 18:30*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-17
Collection Date: 27-Sep-2016 11:20

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-11
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	03-Oct-2016 18:55
Toluene	ND		0.0010	mg/L	1	03-Oct-2016 18:55
Ethylbenzene	ND		0.0010	mg/L	1	03-Oct-2016 18:55
Xylenes, Total	ND		0.0030	mg/L	1	03-Oct-2016 18:55
Surr: 1,2-Dichloroethane-d4	*92.6*		*71-125*	*%REC*	*1*	*03-Oct-2016 18:55*
Surr: 4-Bromofluorobenzene	*86.0*		*70-125*	*%REC*	*1*	*03-Oct-2016 18:55*
Surr: Dibromofluoromethane	*95.5*		*74-125*	*%REC*	*1*	*03-Oct-2016 18:55*
Surr: Toluene-d8	*101*		*75-125*	*%REC*	*1*	*03-Oct-2016 18:55*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-18
Collection Date: 27-Sep-2016 14:15

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-12
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	03-Oct-2016 19:20
Toluene	ND		0.0010	mg/L	1	03-Oct-2016 19:20
Ethylbenzene	ND		0.0010	mg/L	1	03-Oct-2016 19:20
Xylenes, Total	ND		0.0030	mg/L	1	03-Oct-2016 19:20
Surr: 1,2-Dichloroethane-d4	*91.0*		*71-125*	*%REC*	*1*	*03-Oct-2016 19:20*
Surr: 4-Bromofluorobenzene	*87.4*		*70-125*	*%REC*	*1*	*03-Oct-2016 19:20*
Surr: Dibromofluoromethane	*93.2*		*74-125*	*%REC*	*1*	*03-Oct-2016 19:20*
Surr: Toluene-d8	*102*		*75-125*	*%REC*	*1*	*03-Oct-2016 19:20*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-19
Collection Date: 27-Sep-2016 14:20

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-13
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	03-Oct-2016 19:45
Toluene	ND		0.0010	mg/L	1	03-Oct-2016 19:45
Ethylbenzene	ND		0.0010	mg/L	1	03-Oct-2016 19:45
Xylenes, Total	ND		0.0030	mg/L	1	03-Oct-2016 19:45
Surr: 1,2-Dichloroethane-d4	*94.7*		*71-125*	*%REC*	*1*	*03-Oct-2016 19:45*
Surr: 4-Bromofluorobenzene	*87.0*		*70-125*	*%REC*	*1*	*03-Oct-2016 19:45*
Surr: Dibromofluoromethane	*99.0*		*74-125*	*%REC*	*1*	*03-Oct-2016 19:45*
Surr: Toluene-d8	*99.7*		*75-125*	*%REC*	*1*	*03-Oct-2016 19:45*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-20
Collection Date: 27-Sep-2016 15:20

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-14
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	03-Oct-2016 20:10
Toluene	ND		0.0010	mg/L	1	03-Oct-2016 20:10
Ethylbenzene	ND		0.0010	mg/L	1	03-Oct-2016 20:10
Xylenes, Total	ND		0.0030	mg/L	1	03-Oct-2016 20:10
Surr: 1,2-Dichloroethane-d4	*96.0*		*71-125*	*%REC*	*1*	*03-Oct-2016 20:10*
Surr: 4-Bromofluorobenzene	*86.1*		*70-125*	*%REC*	*1*	*03-Oct-2016 20:10*
Surr: Dibromofluoromethane	*98.0*		*74-125*	*%REC*	*1*	*03-Oct-2016 20:10*
Surr: Toluene-d8	*101*		*75-125*	*%REC*	*1*	*03-Oct-2016 20:10*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-22
Collection Date: 27-Sep-2016 12:05

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-15
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	03-Oct-2016 20:36
Toluene	ND		0.0010	mg/L	1	03-Oct-2016 20:36
Ethylbenzene	ND		0.0010	mg/L	1	03-Oct-2016 20:36
Xylenes, Total	ND		0.0030	mg/L	1	03-Oct-2016 20:36
Surr: 1,2-Dichloroethane-d4	*96.8*		*71-125*	*%REC*	*1*	*03-Oct-2016 20:36*
Surr: 4-Bromofluorobenzene	*87.9*		*70-125*	*%REC*	*1*	*03-Oct-2016 20:36*
Surr: Dibromofluoromethane	*97.9*		*74-125*	*%REC*	*1*	*03-Oct-2016 20:36*
Surr: Toluene-d8	*102*		*75-125*	*%REC*	*1*	*03-Oct-2016 20:36*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-23
Collection Date: 27-Sep-2016 11:25

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-16
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	03-Oct-2016 23:31
Toluene	ND		0.0010	mg/L	1	03-Oct-2016 23:31
Ethylbenzene	ND		0.0010	mg/L	1	03-Oct-2016 23:31
Xylenes, Total	ND		0.0030	mg/L	1	03-Oct-2016 23:31
Surr: 1,2-Dichloroethane-d4	*91.2*		*71-125*	*%REC*	*1*	*03-Oct-2016 23:31*
Surr: 4-Bromofluorobenzene	*88.5*		*70-125*	*%REC*	*1*	*03-Oct-2016 23:31*
Surr: Dibromofluoromethane	*95.8*		*74-125*	*%REC*	*1*	*03-Oct-2016 23:31*
Surr: Toluene-d8	*101*		*75-125*	*%REC*	*1*	*03-Oct-2016 23:31*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-24
Collection Date: 27-Sep-2016 11:10

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-17
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	04-Oct-2016 01:11
Toluene	ND		0.0010	mg/L	1	04-Oct-2016 01:11
Ethylbenzene	ND		0.0010	mg/L	1	04-Oct-2016 01:11
Xylenes, Total	ND		0.0030	mg/L	1	04-Oct-2016 01:11
Surr: 1,2-Dichloroethane-d4	*93.0*		*71-125*	*%REC*	*1*	*04-Oct-2016 01:11*
Surr: 4-Bromofluorobenzene	*89.3*		*70-125*	*%REC*	*1*	*04-Oct-2016 01:11*
Surr: Dibromofluoromethane	*98.1*		*74-125*	*%REC*	*1*	*04-Oct-2016 01:11*
Surr: Toluene-d8	*101*		*75-125*	*%REC*	*1*	*04-Oct-2016 01:11*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-25
Collection Date: 27-Sep-2016 09:30

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-18
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	04-Oct-2016 01:36
Toluene	ND		0.0010	mg/L	1	04-Oct-2016 01:36
Ethylbenzene	ND		0.0010	mg/L	1	04-Oct-2016 01:36
Xylenes, Total	ND		0.0030	mg/L	1	04-Oct-2016 01:36
Surr: 1,2-Dichloroethane-d4	*91.8*		*71-125*	*%REC*	*1*	*04-Oct-2016 01:36*
Surr: 4-Bromofluorobenzene	*88.6*		*70-125*	*%REC*	*1*	*04-Oct-2016 01:36*
Surr: Dibromofluoromethane	*96.2*		*74-125*	*%REC*	*1*	*04-Oct-2016 01:36*
Surr: Toluene-d8	*101*		*75-125*	*%REC*	*1*	*04-Oct-2016 01:36*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-26
Collection Date: 27-Sep-2016 11:05

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-19
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**3.5**		**0.10**	**mg/L**	100	03-Oct-2016 16:02
Toluene	**15**		**0.10**	**mg/L**	100	03-Oct-2016 16:02
Ethylbenzene	**0.51**		**0.010**	**mg/L**	10	03-Oct-2016 15:35
Xylenes, Total	**2.9**		**0.030**	**mg/L**	10	03-Oct-2016 15:35
Surr: 1,2-Dichloroethane-d4	*120*		*71-125*	*%REC*	*100*	*03-Oct-2016 16:02*
Surr: 1,2-Dichloroethane-d4	*116*		*71-125*	*%REC*	*10*	*03-Oct-2016 15:35*
Surr: 4-Bromofluorobenzene	*103*		*70-125*	*%REC*	*10*	*03-Oct-2016 15:35*
Surr: 4-Bromofluorobenzene	*97.1*		*70-125*	*%REC*	*100*	*03-Oct-2016 16:02*
Surr: Dibromofluoromethane	*112*		*74-125*	*%REC*	*100*	*03-Oct-2016 16:02*
Surr: Dibromofluoromethane	*99.2*		*74-125*	*%REC*	*10*	*03-Oct-2016 15:35*
Surr: Toluene-d8	*101*		*75-125*	*%REC*	*10*	*03-Oct-2016 15:35*
Surr: Toluene-d8	*105*		*75-125*	*%REC*	*100*	*03-Oct-2016 16:02*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-29
Collection Date: 27-Sep-2016 10:40

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-20
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	04-Oct-2016 02:01
Toluene	ND		0.0010	mg/L	1	04-Oct-2016 02:01
Ethylbenzene	ND		0.0010	mg/L	1	04-Oct-2016 02:01
Xylenes, Total	ND		0.0030	mg/L	1	04-Oct-2016 02:01
Surr: 1,2-Dichloroethane-d4	*95.2*		*71-125*	*%REC*	*1*	*04-Oct-2016 02:01*
Surr: 4-Bromofluorobenzene	*87.9*		*70-125*	*%REC*	*1*	*04-Oct-2016 02:01*
Surr: Dibromofluoromethane	*98.0*		*74-125*	*%REC*	*1*	*04-Oct-2016 02:01*
Surr: Toluene-d8	*101*		*75-125*	*%REC*	*1*	*04-Oct-2016 02:01*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-A
Collection Date: 27-Sep-2016 12:00

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-21
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	ND		0.0050	mg/L	5	03-Oct-2016 18:19
Toluene	ND		0.0050	mg/L	5	03-Oct-2016 18:19
Ethylbenzene	**0.035**		**0.0050**	**mg/L**	5	03-Oct-2016 18:19
Xylenes, Total	**0.075**		**0.015**	**mg/L**	5	03-Oct-2016 18:19
Surr: 1,2-Dichloroethane-d4	*117*		*71-125*	*%REC*	*5*	*03-Oct-2016 18:19*
Surr: 4-Bromofluorobenzene	*98.9*		*70-125*	*%REC*	*5*	*03-Oct-2016 18:19*
Surr: Dibromofluoromethane	*88.4*		*74-125*	*%REC*	*5*	*03-Oct-2016 18:19*
Surr: Toluene-d8	*103*		*75-125*	*%REC*	*5*	*03-Oct-2016 18:19*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-E
Collection Date: 27-Sep-2016 13:59

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-22
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**0.0088**		**0.0010**	**mg/L**	1	04-Oct-2016 02:26
Toluene	ND		0.0010	mg/L	1	04-Oct-2016 02:26
Ethylbenzene	ND		0.0010	mg/L	1	04-Oct-2016 02:26
Xylenes, Total	ND		0.0030	mg/L	1	04-Oct-2016 02:26
Surr: 1,2-Dichloroethane-d4	*91.8*		*71-125*	*%REC*	*1*	*04-Oct-2016 02:26*
Surr: 4-Bromofluorobenzene	*87.7*		*70-125*	*%REC*	*1*	*04-Oct-2016 02:26*
Surr: Dibromofluoromethane	*93.7*		*74-125*	*%REC*	*1*	*04-Oct-2016 02:26*
Surr: Toluene-d8	*100*		*75-125*	*%REC*	*1*	*04-Oct-2016 02:26*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-F
Collection Date: 27-Sep-2016 14:02

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-23
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	04-Oct-2016 02:51
Toluene	ND		0.0010	mg/L	1	04-Oct-2016 02:51
Ethylbenzene	ND		0.0010	mg/L	1	04-Oct-2016 02:51
Xylenes, Total	ND		0.0030	mg/L	1	04-Oct-2016 02:51
Surr: 1,2-Dichloroethane-d4	*94.2*		*71-125*	*%REC*	*1*	*04-Oct-2016 02:51*
Surr: 4-Bromofluorobenzene	*89.6*		*70-125*	*%REC*	*1*	*04-Oct-2016 02:51*
Surr: Dibromofluoromethane	*99.3*		*74-125*	*%REC*	*1*	*04-Oct-2016 02:51*
Surr: Toluene-d8	*103*		*75-125*	*%REC*	*1*	*04-Oct-2016 02:51*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-I
Collection Date: 27-Sep-2016 14:50

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-24
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	04-Oct-2016 03:16
Toluene	ND		0.0010	mg/L	1	04-Oct-2016 03:16
Ethylbenzene	ND		0.0010	mg/L	1	04-Oct-2016 03:16
Xylenes, Total	ND		0.0030	mg/L	1	04-Oct-2016 03:16
Surr: 1,2-Dichloroethane-d4	*92.3*		*71-125*	*%REC*	*1*	*04-Oct-2016 03:16*
Surr: 4-Bromofluorobenzene	*85.7*		*70-125*	*%REC*	*1*	*04-Oct-2016 03:16*
Surr: Dibromofluoromethane	*95.1*		*74-125*	*%REC*	*1*	*04-Oct-2016 03:16*
Surr: Toluene-d8	*98.8*		*75-125*	*%REC*	*1*	*04-Oct-2016 03:16*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-M
Collection Date: 27-Sep-2016 14:20

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-25
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**2.8**		**0.10**	**mg/L**	100	03-Oct-2016 19:14
Toluene	ND		0.010	mg/L	10	03-Oct-2016 18:47
Ethylbenzene	**0.39**		**0.010**	**mg/L**	10	03-Oct-2016 18:47
Xylenes, Total	ND		0.030	mg/L	10	03-Oct-2016 18:47
Surr: 1,2-Dichloroethane-d4	*121*		*71-125*	*%REC*	*10*	*03-Oct-2016 18:47*
Surr: 1,2-Dichloroethane-d4	*123*		*71-125*	*%REC*	*100*	*03-Oct-2016 19:14*
Surr: 4-Bromofluorobenzene	*97.5*		*70-125*	*%REC*	*100*	*03-Oct-2016 19:14*
Surr: 4-Bromofluorobenzene	*101*		*70-125*	*%REC*	*10*	*03-Oct-2016 18:47*
Surr: Dibromofluoromethane	*96.1*		*74-125*	*%REC*	*10*	*03-Oct-2016 18:47*
Surr: Dibromofluoromethane	*112*		*74-125*	*%REC*	*100*	*03-Oct-2016 19:14*
Surr: Toluene-d8	*105*		*75-125*	*%REC*	*100*	*03-Oct-2016 19:14*
Surr: Toluene-d8	*104*		*75-125*	*%REC*	*10*	*03-Oct-2016 18:47*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-O
Collection Date: 27-Sep-2016 13:10

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-26
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**2.4**		**0.025**	**mg/L**	25	03-Oct-2016 20:09
Toluene	ND		0.0050	mg/L	5	03-Oct-2016 19:41
Ethylbenzene	**0.088**		**0.0050**	**mg/L**	5	03-Oct-2016 19:41
Xylenes, Total	ND		0.015	mg/L	5	03-Oct-2016 19:41
Surr: 1,2-Dichloroethane-d4	*119*		*71-125*	*%REC*	*5*	*03-Oct-2016 19:41*
Surr: 1,2-Dichloroethane-d4	*122*		*71-125*	*%REC*	*25*	*03-Oct-2016 20:09*
Surr: 4-Bromofluorobenzene	*98.1*		*70-125*	*%REC*	*25*	*03-Oct-2016 20:09*
Surr: 4-Bromofluorobenzene	*99.2*		*70-125*	*%REC*	*5*	*03-Oct-2016 19:41*
Surr: Dibromofluoromethane	*89.4*		*74-125*	*%REC*	*5*	*03-Oct-2016 19:41*
Surr: Dibromofluoromethane	*103*		*74-125*	*%REC*	*25*	*03-Oct-2016 20:09*
Surr: Toluene-d8	*105*		*75-125*	*%REC*	*25*	*03-Oct-2016 20:09*
Surr: Toluene-d8	*103*		*75-125*	*%REC*	*5*	*03-Oct-2016 19:41*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-Q
Collection Date: 27-Sep-2016 12:55

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-27
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	04-Oct-2016 03:41
Toluene	ND		0.0010	mg/L	1	04-Oct-2016 03:41
Ethylbenzene	ND		0.0010	mg/L	1	04-Oct-2016 03:41
Xylenes, Total	ND		0.0030	mg/L	1	04-Oct-2016 03:41
Surr: 1,2-Dichloroethane-d4	*91.0*		*71-125*	*%REC*	*1*	*04-Oct-2016 03:41*
Surr: 4-Bromofluorobenzene	*88.8*		*70-125*	*%REC*	*1*	*04-Oct-2016 03:41*
Surr: Dibromofluoromethane	*93.1*		*74-125*	*%REC*	*1*	*04-Oct-2016 03:41*
Surr: Toluene-d8	*100*		*75-125*	*%REC*	*1*	*04-Oct-2016 03:41*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-S
Collection Date: 27-Sep-2016 12:40

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-28
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	04-Oct-2016 04:06
Toluene	ND		0.0010	mg/L	1	04-Oct-2016 04:06
Ethylbenzene	ND		0.0010	mg/L	1	04-Oct-2016 04:06
Xylenes, Total	ND		0.0030	mg/L	1	04-Oct-2016 04:06
Surr: 1,2-Dichloroethane-d4	*95.8*		*71-125*	*%REC*	*1*	*04-Oct-2016 04:06*
Surr: 4-Bromofluorobenzene	*87.4*		*70-125*	*%REC*	*1*	*04-Oct-2016 04:06*
Surr: Dibromofluoromethane	*97.3*		*74-125*	*%REC*	*1*	*04-Oct-2016 04:06*
Surr: Toluene-d8	*103*		*75-125*	*%REC*	*1*	*04-Oct-2016 04:06*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-EE
Collection Date: 27-Sep-2016 11:20

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-29
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**0.041**		**0.0010**	**mg/L**	1	04-Oct-2016 04:31
Toluene	ND		0.0010	mg/L	1	04-Oct-2016 04:31
Ethylbenzene	ND		0.0010	mg/L	1	04-Oct-2016 04:31
Xylenes, Total	ND		0.0030	mg/L	1	04-Oct-2016 04:31
Surr: 1,2-Dichloroethane-d4	*90.0*		*71-125*	*%REC*	*1*	*04-Oct-2016 04:31*
Surr: 4-Bromofluorobenzene	*88.0*		*70-125*	*%REC*	*1*	*04-Oct-2016 04:31*
Surr: Dibromofluoromethane	*93.7*		*74-125*	*%REC*	*1*	*04-Oct-2016 04:31*
Surr: Toluene-d8	*102*		*75-125*	*%REC*	*1*	*04-Oct-2016 04:31*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-LL
Collection Date: 27-Sep-2016 13:45

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-30
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**0.37**		**0.0050**	**mg/L**	5	03-Oct-2016 20:36
Toluene	**0.13**		**0.0050**	**mg/L**	5	03-Oct-2016 20:36
Ethylbenzene	**0.058**		**0.0050**	**mg/L**	5	03-Oct-2016 20:36
Xylenes, Total	**0.076**		**0.015**	**mg/L**	5	03-Oct-2016 20:36
Surr: 1,2-Dichloroethane-d4	*119*		*71-125*	*%REC*	*5*	*03-Oct-2016 20:36*
Surr: 4-Bromofluorobenzene	*97.5*		*70-125*	*%REC*	*5*	*03-Oct-2016 20:36*
Surr: Dibromofluoromethane	*106*		*74-125*	*%REC*	*5*	*03-Oct-2016 20:36*
Surr: Toluene-d8	*105*		*75-125*	*%REC*	*5*	*03-Oct-2016 20:36*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: MW-MM
Collection Date: 27-Sep-2016 11:30

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-31
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	04-Oct-2016 04:56
Toluene	ND		0.0010	mg/L	1	04-Oct-2016 04:56
Ethylbenzene	ND		0.0010	mg/L	1	04-Oct-2016 04:56
Xylenes, Total	ND		0.0030	mg/L	1	04-Oct-2016 04:56
Surr: 1,2-Dichloroethane-d4	*93.1*		*71-125*	*%REC*	*1*	*04-Oct-2016 04:56*
Surr: 4-Bromofluorobenzene	*86.9*		*70-125*	*%REC*	*1*	*04-Oct-2016 04:56*
Surr: Dibromofluoromethane	*96.7*		*74-125*	*%REC*	*1*	*04-Oct-2016 04:56*
Surr: Toluene-d8	*100*		*75-125*	*%REC*	*1*	*04-Oct-2016 04:56*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: NMG MW-2
Collection Date: 27-Sep-2016 07:55

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-32
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	04-Oct-2016 05:21
Toluene	ND		0.0010	mg/L	1	04-Oct-2016 05:21
Ethylbenzene	ND		0.0010	mg/L	1	04-Oct-2016 05:21
Xylenes, Total	ND		0.0030	mg/L	1	04-Oct-2016 05:21
Surr: 1,2-Dichloroethane-d4	*96.0*		*71-125*	*%REC*	*1*	*04-Oct-2016 05:21*
Surr: 4-Bromofluorobenzene	*86.6*		*70-125*	*%REC*	*1*	*04-Oct-2016 05:21*
Surr: Dibromofluoromethane	*97.5*		*74-125*	*%REC*	*1*	*04-Oct-2016 05:21*
Surr: Toluene-d8	*100*		*75-125*	*%REC*	*1*	*04-Oct-2016 05:21*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: NMG MW-3
Collection Date: 27-Sep-2016 07:40

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-33
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	04-Oct-2016 05:46
Toluene	ND		0.0010	mg/L	1	04-Oct-2016 05:46
Ethylbenzene	ND		0.0010	mg/L	1	04-Oct-2016 05:46
Xylenes, Total	ND		0.0030	mg/L	1	04-Oct-2016 05:46
Surr: 1,2-Dichloroethane-d4	*95.0*		*71-125*	*%REC*	*1*	*04-Oct-2016 05:46*
Surr: 4-Bromofluorobenzene	*86.3*		*70-125*	*%REC*	*1*	*04-Oct-2016 05:46*
Surr: Dibromofluoromethane	*98.5*		*74-125*	*%REC*	*1*	*04-Oct-2016 05:46*
Surr: Toluene-d8	*98.8*		*75-125*	*%REC*	*1*	*04-Oct-2016 05:46*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: NMG MW-4
Collection Date: 27-Sep-2016 09:15

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-34
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	03-Oct-2016 14:13
Toluene	ND		0.0010	mg/L	1	03-Oct-2016 14:13
Ethylbenzene	ND		0.0010	mg/L	1	03-Oct-2016 14:13
Xylenes, Total	ND		0.0030	mg/L	1	03-Oct-2016 14:13
Surr: 1,2-Dichloroethane-d4	*120*		*71-125*	*%REC*	*1*	*03-Oct-2016 14:13*
Surr: 4-Bromofluorobenzene	*101*		*70-125*	*%REC*	*1*	*03-Oct-2016 14:13*
Surr: Dibromofluoromethane	*119*		*74-125*	*%REC*	*1*	*03-Oct-2016 14:13*
Surr: Toluene-d8	*104*		*75-125*	*%REC*	*1*	*03-Oct-2016 14:13*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: NMG MW-6
Collection Date: 27-Sep-2016 08:20

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-35
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	04-Oct-2016 06:12
Toluene	ND		0.0010	mg/L	1	04-Oct-2016 06:12
Ethylbenzene	ND		0.0010	mg/L	1	04-Oct-2016 06:12
Xylenes, Total	ND		0.0030	mg/L	1	04-Oct-2016 06:12
Surr: 1,2-Dichloroethane-d4	*94.9*		*71-125*	*%REC*	*1*	*04-Oct-2016 06:12*
Surr: 4-Bromofluorobenzene	*84.5*		*70-125*	*%REC*	*1*	*04-Oct-2016 06:12*
Surr: Dibromofluoromethane	*99.1*		*74-125*	*%REC*	*1*	*04-Oct-2016 06:12*
Surr: Toluene-d8	*99.4*		*75-125*	*%REC*	*1*	*04-Oct-2016 06:12*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: NMG MW-7
Collection Date: 27-Sep-2016 08:37

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-36
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	04-Oct-2016 06:37
Toluene	ND		0.0010	mg/L	1	04-Oct-2016 06:37
Ethylbenzene	ND		0.0010	mg/L	1	04-Oct-2016 06:37
Xylenes, Total	ND		0.0030	mg/L	1	04-Oct-2016 06:37
Surr: 1,2-Dichloroethane-d4	*91.3*		*71-125*	*%REC*	*1*	*04-Oct-2016 06:37*
Surr: 4-Bromofluorobenzene	*88.0*		*70-125*	*%REC*	*1*	*04-Oct-2016 06:37*
Surr: Dibromofluoromethane	*96.6*		*74-125*	*%REC*	*1*	*04-Oct-2016 06:37*
Surr: Toluene-d8	*96.9*		*75-125*	*%REC*	*1*	*04-Oct-2016 06:37*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: NMG MW-8
Collection Date: 27-Sep-2016 08:30

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-37
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	04-Oct-2016 07:03
Toluene	ND		0.0010	mg/L	1	04-Oct-2016 07:03
Ethylbenzene	ND		0.0010	mg/L	1	04-Oct-2016 07:03
Xylenes, Total	ND		0.0030	mg/L	1	04-Oct-2016 07:03
Surr: 1,2-Dichloroethane-d4	*90.5*		*71-125*	*%REC*	*1*	*04-Oct-2016 07:03*
Surr: 4-Bromofluorobenzene	*87.6*		*70-125*	*%REC*	*1*	*04-Oct-2016 07:03*
Surr: Dibromofluoromethane	*95.2*		*74-125*	*%REC*	*1*	*04-Oct-2016 07:03*
Surr: Toluene-d8	*99.1*		*75-125*	*%REC*	*1*	*04-Oct-2016 07:03*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: NMG MW-10
Collection Date: 27-Sep-2016 09:05

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-38
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**0.0071**		**0.0010**	**mg/L**	1	04-Oct-2016 07:28
Toluene	ND		0.0010	mg/L	1	04-Oct-2016 07:28
Ethylbenzene	ND		0.0010	mg/L	1	04-Oct-2016 07:28
Xylenes, Total	ND		0.0030	mg/L	1	04-Oct-2016 07:28
Surr: 1,2-Dichloroethane-d4	*90.6*		*71-125*	*%REC*	*1*	*04-Oct-2016 07:28*
Surr: 4-Bromofluorobenzene	*89.2*		*70-125*	*%REC*	*1*	*04-Oct-2016 07:28*
Surr: Dibromofluoromethane	*92.5*		*74-125*	*%REC*	*1*	*04-Oct-2016 07:28*
Surr: Toluene-d8	*98.9*		*75-125*	*%REC*	*1*	*04-Oct-2016 07:28*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: NMG MW-11
Collection Date: 27-Sep-2016 08:50

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-39
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	04-Oct-2016 07:53
Toluene	ND		0.0010	mg/L	1	04-Oct-2016 07:53
Ethylbenzene	ND		0.0010	mg/L	1	04-Oct-2016 07:53
Xylenes, Total	ND		0.0030	mg/L	1	04-Oct-2016 07:53
Surr: 1,2-Dichloroethane-d4	*94.6*		*71-125*	*%REC*	*1*	*04-Oct-2016 07:53*
Surr: 4-Bromofluorobenzene	*85.1*		*70-125*	*%REC*	*1*	*04-Oct-2016 07:53*
Surr: Dibromofluoromethane	*98.0*		*74-125*	*%REC*	*1*	*04-Oct-2016 07:53*
Surr: Toluene-d8	*100*		*75-125*	*%REC*	*1*	*04-Oct-2016 07:53*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: House Well
Collection Date: 27-Sep-2016 11:33

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-40
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	04-Oct-2016 08:18
Toluene	ND		0.0010	mg/L	1	04-Oct-2016 08:18
Ethylbenzene	ND		0.0010	mg/L	1	04-Oct-2016 08:18
Xylenes, Total	ND		0.0030	mg/L	1	04-Oct-2016 08:18
Surr: 1,2-Dichloroethane-d4	*91.6*		*71-125*	*%REC*	*1*	*04-Oct-2016 08:18*
Surr: 4-Bromofluorobenzene	*84.8*		*70-125*	*%REC*	*1*	*04-Oct-2016 08:18*
Surr: Dibromofluoromethane	*95.1*		*74-125*	*%REC*	*1*	*04-Oct-2016 08:18*
Surr: Toluene-d8	*102*		*75-125*	*%REC*	*1*	*04-Oct-2016 08:18*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: Irrigation Well
Collection Date: 27-Sep-2016 10:40

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-41
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	ND		0.0050	mg/L	5	04-Oct-2016 07:23
Toluene	ND		0.0050	mg/L	5	04-Oct-2016 07:23
Ethylbenzene	ND		0.0050	mg/L	5	04-Oct-2016 07:23
Xylenes, Total	ND		0.015	mg/L	5	04-Oct-2016 07:23
Surr: 1,2-Dichloroethane-d4	*122*		*71-125*	*%REC*	*5*	*04-Oct-2016 07:23*
Surr: 4-Bromofluorobenzene	*101*		*70-125*	*%REC*	*5*	*04-Oct-2016 07:23*
Surr: Dibromofluoromethane	*112*		*74-125*	*%REC*	*5*	*04-Oct-2016 07:23*
Surr: Toluene-d8	*105*		*75-125*	*%REC*	*5*	*04-Oct-2016 07:23*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: Duplicate A
Collection Date: 27-Sep-2016 00:00

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-42
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**0.0075**		**0.0010**	**mg/L**	1	04-Oct-2016 08:44
Toluene	ND		0.0010	mg/L	1	04-Oct-2016 08:44
Ethylbenzene	ND		0.0010	mg/L	1	04-Oct-2016 08:44
Xylenes, Total	ND		0.0030	mg/L	1	04-Oct-2016 08:44
Surr: 1,2-Dichloroethane-d4	*91.2*		*71-125*	*%REC*	*1*	*04-Oct-2016 08:44*
Surr: 4-Bromofluorobenzene	*89.3*		*70-125*	*%REC*	*1*	*04-Oct-2016 08:44*
Surr: Dibromofluoromethane	*95.4*		*74-125*	*%REC*	*1*	*04-Oct-2016 08:44*
Surr: Toluene-d8	*98.5*		*75-125*	*%REC*	*1*	*04-Oct-2016 08:44*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: Duplicate B
Collection Date: 27-Sep-2016 00:00

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-43
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	**3.1**		**0.10**	**mg/L**	100	04-Oct-2016 09:13
Toluene	ND		0.010	mg/L	10	04-Oct-2016 08:45
Ethylbenzene	**0.16**		**0.010**	**mg/L**	10	04-Oct-2016 08:45
Xylenes, Total	ND		0.030	mg/L	10	04-Oct-2016 08:45
Surr: 1,2-Dichloroethane-d4	*119*		*71-125*	*%REC*	*10*	*04-Oct-2016 08:45*
Surr: 1,2-Dichloroethane-d4	*118*		*71-125*	*%REC*	*100*	*04-Oct-2016 09:13*
Surr: 4-Bromofluorobenzene	*97.6*		*70-125*	*%REC*	*100*	*04-Oct-2016 09:13*
Surr: 4-Bromofluorobenzene	*99.9*		*70-125*	*%REC*	*10*	*04-Oct-2016 08:45*
Surr: Dibromofluoromethane	*103*		*74-125*	*%REC*	*10*	*04-Oct-2016 08:45*
Surr: Dibromofluoromethane	*117*		*74-125*	*%REC*	*100*	*04-Oct-2016 09:13*
Surr: Toluene-d8	*105*		*75-125*	*%REC*	*100*	*04-Oct-2016 09:13*
Surr: Toluene-d8	*105*		*75-125*	*%REC*	*10*	*04-Oct-2016 08:45*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: Duplicate C
Collection Date: 27-Sep-2016 00:00

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-44
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C	**Method:SW8260**					Analyst: AKP
Benzene	ND		0.0050	mg/L	5	04-Oct-2016 07:51
Toluene	ND		0.0050	mg/L	5	04-Oct-2016 07:51
Ethylbenzene	**0.011**		**0.0050**	**mg/L**	5	04-Oct-2016 07:51
Xylenes, Total	ND		0.015	mg/L	5	04-Oct-2016 07:51
Surr: 1,2-Dichloroethane-d4	*124*		*71-125*	*%REC*	*5*	*04-Oct-2016 07:51*
Surr: 4-Bromofluorobenzene	*101*		*70-125*	*%REC*	*5*	*04-Oct-2016 07:51*
Surr: Dibromofluoromethane	*104*		*74-125*	*%REC*	*5*	*04-Oct-2016 07:51*
Surr: Toluene-d8	*102*		*75-125*	*%REC*	*5*	*04-Oct-2016 07:51*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Sample ID: Trip Blank 1 (091516-09)
Collection Date: 27-Sep-2016 00:00

ANALYTICAL REPORT
WorkOrder:HS16100008
Lab ID:HS16100008-45
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	03-Oct-2016 23:56
Toluene	ND		0.0010	mg/L	1	03-Oct-2016 23:56
Ethylbenzene	ND		0.0010	mg/L	1	03-Oct-2016 23:56
Xylenes, Total	ND		0.0030	mg/L	1	03-Oct-2016 23:56
Surr: 1,2-Dichloroethane-d4	*116*		*71-125*	*%REC*	*1*	*03-Oct-2016 23:56*
Surr: 4-Bromofluorobenzene	*98.5*		*70-125*	*%REC*	*1*	*03-Oct-2016 23:56*
Surr: Dibromofluoromethane	*112*		*74-125*	*%REC*	*1*	*03-Oct-2016 23:56*
Surr: Toluene-d8	*104*		*75-125*	*%REC*	*1*	*03-Oct-2016 23:56*

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
WorkOrder: HS16100008

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R282346	**Test Name :** LOW LEVEL VOLATILES BY SW8260C			**Matrix:** Water		
HS16100008-01	MW-1	27 Sep 2016 11:59			02 Oct 2016 15:43	1
HS16100008-08	MW-11	27 Sep 2016 14:55			02 Oct 2016 16:08	1
HS16100008-09	MW-12	27 Sep 2016 15:04			02 Oct 2016 16:32	1
Batch ID R282402	**Test Name :** LOW LEVEL VOLATILES BY SW8260C			**Matrix:** Water		
HS16100008-02	MW-1D	27 Sep 2016 12:03			03 Oct 2016 16:50	1
HS16100008-04	MW-5	27 Sep 2016 13:10			03 Oct 2016 17:15	1
HS16100008-05	MW-6	27 Sep 2016 13:42			03 Oct 2016 17:40	1
HS16100008-07	MW-10	27 Sep 2016 15:20			03 Oct 2016 18:05	1
HS16100008-10	MW-14	27 Sep 2016 11:50			03 Oct 2016 18:30	1
HS16100008-11	MW-17	27 Sep 2016 11:20			03 Oct 2016 18:55	1
HS16100008-12	MW-18	27 Sep 2016 14:15			03 Oct 2016 19:20	1
HS16100008-13	MW-19	27 Sep 2016 14:20			03 Oct 2016 19:45	1
HS16100008-14	MW-20	27 Sep 2016 15:20			03 Oct 2016 20:10	1
HS16100008-15	MW-22	27 Sep 2016 12:05			03 Oct 2016 20:36	1
Batch ID R282403	**Test Name :** LOW LEVEL VOLATILES BY SW8260C			**Matrix:** Water		
HS16100008-16	MW-23	27 Sep 2016 11:25			03 Oct 2016 23:31	1
HS16100008-17	MW-24	27 Sep 2016 11:10			04 Oct 2016 01:11	1
HS16100008-18	MW-25	27 Sep 2016 09:30			04 Oct 2016 01:36	1
HS16100008-20	MW-29	27 Sep 2016 10:40			04 Oct 2016 02:01	1
HS16100008-22	MW-E	27 Sep 2016 13:59			04 Oct 2016 02:26	1
HS16100008-23	MW-F	27 Sep 2016 14:02			04 Oct 2016 02:51	1
HS16100008-24	MW-I	27 Sep 2016 14:50			04 Oct 2016 03:16	1
HS16100008-27	MW-Q	27 Sep 2016 12:55			04 Oct 2016 03:41	1
HS16100008-28	MW-S	27 Sep 2016 12:40			04 Oct 2016 04:06	1
HS16100008-29	MW-EE	27 Sep 2016 11:20			04 Oct 2016 04:31	1
HS16100008-31	MW-MM	27 Sep 2016 11:30			04 Oct 2016 04:56	1
HS16100008-32	NMG MW-2	27 Sep 2016 07:55			04 Oct 2016 05:21	1
HS16100008-33	NMG MW-3	27 Sep 2016 07:40			04 Oct 2016 05:46	1
HS16100008-35	NMG MW-6	27 Sep 2016 08:20			04 Oct 2016 06:12	1
HS16100008-36	NMG MW-7	27 Sep 2016 08:37			04 Oct 2016 06:37	1
HS16100008-37	NMG MW-8	27 Sep 2016 08:30			04 Oct 2016 07:03	1
HS16100008-38	NMG MW-10	27 Sep 2016 09:05			04 Oct 2016 07:28	1
HS16100008-39	NMG MW-11	27 Sep 2016 08:50			04 Oct 2016 07:53	1
HS16100008-40	House Well	27 Sep 2016 11:33			04 Oct 2016 08:18	1
HS16100008-42	Duplicate A	27 Sep 2016 00:00			04 Oct 2016 08:44	1

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
WorkOrder: HS16100008

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R282405	**Test Name :** LOW LEVEL VOLATILES BY SW8260C			**Matrix:** Water		
HS16100008-03	MW-4	27 Sep 2016 12:55			03 Oct 2016 17:25	5
HS16100008-06	MW-8	27 Sep 2016 15:00			03 Oct 2016 17:52	5
HS16100008-08	MW-11	27 Sep 2016 14:55			03 Oct 2016 14:40	10
HS16100008-09	MW-12	27 Sep 2016 15:04			03 Oct 2016 15:08	50
HS16100008-19	MW-26	27 Sep 2016 11:05			03 Oct 2016 16:02	100
HS16100008-19	MW-26	27 Sep 2016 11:05			03 Oct 2016 15:35	10
HS16100008-21	MW-A	27 Sep 2016 12:00			03 Oct 2016 18:19	5
HS16100008-25	MW-M	27 Sep 2016 14:20			03 Oct 2016 19:14	100
HS16100008-25	MW-M	27 Sep 2016 14:20			03 Oct 2016 18:47	10
HS16100008-26	MW-O	27 Sep 2016 13:10			03 Oct 2016 20:09	25
HS16100008-26	MW-O	27 Sep 2016 13:10			03 Oct 2016 19:41	5
HS16100008-30	MW-LL	27 Sep 2016 13:45			03 Oct 2016 20:36	5
HS16100008-34	NMG MW-4	27 Sep 2016 09:15			03 Oct 2016 14:13	1
Batch ID R282427	**Test Name :** LOW LEVEL VOLATILES BY SW8260C			**Matrix:** Water		
HS16100008-41	Irrigation Well	27 Sep 2016 10:40			04 Oct 2016 07:23	5
HS16100008-43	Duplicate B	27 Sep 2016 00:00			04 Oct 2016 09:13	100
HS16100008-43	Duplicate B	27 Sep 2016 00:00			04 Oct 2016 08:45	10
HS16100008-44	Duplicate C	27 Sep 2016 00:00			04 Oct 2016 07:51	5
HS16100008-45	Trip Blank 1 (091516-09)	27 Sep 2016 00:00			03 Oct 2016 23:56	1

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
WorkOrder: HS16100008

QC BATCH REPORT

Batch ID: R282346 **Instrument: VOA4** **Method: SW8260**

MBLK Sample ID: **VBLKW-161002** Units: **ug/L** Analysis Date: **02-Oct-2016 14:27**
Client ID: Run ID: **VOA4_282346** SeqNo: **3845913** 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	*45.83*	*1.0*	*50*	*0*	*91.7*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*43.73*	*1.0*	*50*	*0*	*87.5*	*70 - 125*				
Surr: Dibromofluoromethane	*46.72*	*1.0*	*50*	*0*	*93.4*	*74 - 125*				
Surr: Toluene-d8	*50.17*	*1.0*	*50*	*0*	*100*	*75 - 125*				

LCS Sample ID: **VLCSW-161002** Units: **ug/L** Analysis Date: **02-Oct-2016 13:37**
Client ID: Run ID: **VOA4_282346** SeqNo: **3845912** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	57.53	1.0	50	0	115	75 - 122				
Ethylbenzene	58.27	1.0	50	0	117	80 - 120				
Toluene	56.26	1.0	50	0	113	75 - 121				
Xylenes, Total	173.8	3.0	150	0	116	79 - 124				
Surr: 1,2-Dichloroethane-d4	*45.16*	*1.0*	*50*	*0*	*90.3*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*48.92*	*1.0*	*50*	*0*	*97.8*	*70 - 125*				
Surr: Dibromofluoromethane	*47.7*	*1.0*	*50*	*0*	*95.4*	*74 - 125*				
Surr: Toluene-d8	*50.47*	*1.0*	*50*	*0*	*101*	*75 - 125*				

MS Sample ID: **HS16091283-07MS** Units: **ug/L** Analysis Date: **02-Oct-2016 17:23**
Client ID: Run ID: **VOA4_282346** SeqNo: **3845920** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	51.73	1.0	50	4.192	95.1	75 - 122				
Ethylbenzene	53.37	1.0	50	0.6743	105	80 - 120				
Toluene	51.01	1.0	50	0	102	75 - 121				
Xylenes, Total	158	3.0	150	0	105	80 - 124				
Surr: 1,2-Dichloroethane-d4	*44.29*	*1.0*	*50*	*0*	*88.6*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*47.56*	*1.0*	*50*	*0*	*95.1*	*70 - 125*				
Surr: Dibromofluoromethane	*46.94*	*1.0*	*50*	*0*	*93.9*	*74 - 125*				
Surr: Toluene-d8	*49.22*	*1.0*	*50*	*0*	*98.4*	*75 - 125*				

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
WorkOrder: HS16100008

QC BATCH REPORT

Batch ID: R282346 **Instrument: VOA4** **Method: SW8260**

MSD Sample ID: **HS16091283-07MSD** Units: **ug/L** Analysis Date: **02-Oct-2016 17:49**
Client ID: Run ID: **VOA4_282346** SeqNo: **3845921** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	51.28	1.0	50	4.192	94.2	75 - 122	51.73	0.872	20	
Ethylbenzene	53.77	1.0	50	0.6743	106	80 - 120	53.37	0.734	20	
Toluene	51.46	1.0	50	0	103	75 - 121	51.01	0.893	20	
Xylenes, Total	157.6	3.0	150	0	105	80 - 124	158	0.284	20	
Surr: 1,2-Dichloroethane-d4	*45.63*	*1.0*	*50*	*0*	*91.3*	*71 - 125*	*44.29*	*2.97*	*20*	
Surr: 4-Bromofluorobenzene	*48.79*	*1.0*	*50*	*0*	*97.6*	*70 - 125*	*47.56*	*2.56*	*20*	
Surr: Dibromofluoromethane	*46.92*	*1.0*	*50*	*0*	*93.8*	*74 - 125*	*46.94*	*0.0359*	*20*	
Surr: Toluene-d8	*50.57*	*1.0*	*50*	*0*	*101*	*75 - 125*	*49.22*	*2.7*	*20*	

The following samples were analyzed in this batch: HS16100008-01 HS16100008-08 HS16100008-09

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
WorkOrder: HS16100008

QC BATCH REPORT

Batch ID: R282402 **Instrument: VOA4** **Method: SW8260**

MBLK Sample ID: **VBLKW-161003** Units: **ug/L** Analysis Date: **03-Oct-2016 10:58**
Client ID: Run ID: **VOA4_282402** SeqNo: **3846843** 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	*46.67*	*1.0*	*50*	*0*	*93.3*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*43.81*	*1.0*	*50*	*0*	*87.6*	*70 - 125*				
Surr: Dibromofluoromethane	*48.29*	*1.0*	*50*	*0*	*96.6*	*74 - 125*				
Surr: Toluene-d8	*51.13*	*1.0*	*50*	*0*	*102*	*75 - 125*				

LCS Sample ID: **VLCSW-161003** Units: **ug/L** Analysis Date: **03-Oct-2016 10:08**
Client ID: Run ID: **VOA4_282402** SeqNo: **3846842** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	49.19	1.0	50	0	98.4	75 - 122				
Ethylbenzene	49.49	1.0	50	0	99.0	80 - 120				
Toluene	48.49	1.0	50	0	97.0	75 - 121				
Xylenes, Total	149	3.0	150	0	99.3	79 - 124				
Surr: 1,2-Dichloroethane-d4	*45.12*	*1.0*	*50*	*0*	*90.2*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*47.45*	*1.0*	*50*	*0*	*94.9*	*70 - 125*				
Surr: Dibromofluoromethane	*47.86*	*1.0*	*50*	*0*	*95.7*	*74 - 125*				
Surr: Toluene-d8	*49.17*	*1.0*	*50*	*0*	*98.3*	*75 - 125*				

MS Sample ID: **HS16100009-01MS** Units: **ug/L** Analysis Date: **03-Oct-2016 13:29**
Client ID: Run ID: **VOA4_282402** SeqNo: **3846849** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.74	1.0	50	1.334	98.8	75 - 122				
Ethylbenzene	54.49	1.0	50	3.735	102	80 - 120				
Toluene	50.79	1.0	50	0	102	75 - 121				
Xylenes, Total	161.1	3.0	150	5.359	104	80 - 124				
Surr: 1,2-Dichloroethane-d4	*44.85*	*1.0*	*50*	*0*	*89.7*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*48.54*	*1.0*	*50*	*0*	*97.1*	*70 - 125*				
Surr: Dibromofluoromethane	*47.48*	*1.0*	*50*	*0*	*95.0*	*74 - 125*				
Surr: Toluene-d8	*49.4*	*1.0*	*50*	*0*	*98.8*	*75 - 125*				

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
WorkOrder: HS16100008

QC BATCH REPORT

Batch ID: R282402 **Instrument: VOA4** **Method: SW8260**

MSD Sample ID: **HS16100009-01MSD** Units: **ug/L** Analysis Date: **03-Oct-2016 13:54**
Client ID: Run ID: **VOA4_282402** SeqNo: **3846850** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	52.25	1.0	50	1.334	102	75 - 122	50.74	2.94	20	
Ethylbenzene	54.81	1.0	50	3.735	102	80 - 120	54.49	0.585	20	
Toluene	51.54	1.0	50	0	103	75 - 121	50.79	1.47	20	
Xylenes, Total	161.6	3.0	150	5.359	104	80 - 124	161.1	0.331	20	
Surr: 1,2-Dichloroethane-d4	*44.53*	*1.0*	*50*	*0*	*89.1*	*71 - 125*	*44.85*	*0.724*	*20*	
Surr: 4-Bromofluorobenzene	*48.12*	*1.0*	*50*	*0*	*96.2*	*70 - 125*	*48.54*	*0.885*	*20*	
Surr: Dibromofluoromethane	*46.4*	*1.0*	*50*	*0*	*92.8*	*74 - 125*	*47.48*	*2.31*	*20*	
Surr: Toluene-d8	*49.42*	*1.0*	*50*	*0*	*98.8*	*75 - 125*	*49.4*	*0.0385*	*20*	

The following samples were analyzed in this batch:

HS16100008-02	HS16100008-04	HS16100008-05	HS16100008-07
HS16100008-10	HS16100008-11	HS16100008-12	HS16100008-13
HS16100008-14	HS16100008-15		

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
WorkOrder: HS16100008

QC BATCH REPORT

Batch ID: R282403 **Instrument: VOA4** **Method: SW8260**

MBLK Sample ID: **VBLKW-161003** Units: **ug/L** Analysis Date: **03-Oct-2016 23:06**
Client ID: Run ID: **VOA4_282403** SeqNo: **3846894** 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	*45.64*	*1.0*	*50*	*0*	*91.3*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*42.74*	*1.0*	*50*	*0*	*85.5*	*70 - 125*				
Surr: Dibromofluoromethane	*47.73*	*1.0*	*50*	*0*	*95.5*	*74 - 125*				
Surr: Toluene-d8	*50.14*	*1.0*	*50*	*0*	*100*	*75 - 125*				

LCS Sample ID: **VLCSW-161003** Units: **ug/L** Analysis Date: **03-Oct-2016 22:16**
Client ID: Run ID: **VOA4_282403** SeqNo: **3846893** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	54.59	1.0	50	0	109	75 - 122				
Ethylbenzene	55.78	1.0	50	0	112	80 - 120				
Toluene	53.07	1.0	50	0	106	75 - 121				
Xylenes, Total	166.9	3.0	150	0	111	79 - 124				
Surr: 1,2-Dichloroethane-d4	*44.12*	*1.0*	*50*	*0*	*88.2*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*48.86*	*1.0*	*50*	*0*	*97.7*	*70 - 125*				
Surr: Dibromofluoromethane	*46.56*	*1.0*	*50*	*0*	*93.1*	*74 - 125*				
Surr: Toluene-d8	*49.38*	*1.0*	*50*	*0*	*98.8*	*75 - 125*				

MS Sample ID: **HS16100008-16MS** Units: **ug/L** Analysis Date: **03-Oct-2016 23:56**
Client ID: **MW-23** Run ID: **VOA4_282403** SeqNo: **3846896** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	51.38	1.0	50	0	103	75 - 122				
Ethylbenzene	51.71	1.0	50	0	103	80 - 120				
Toluene	50.22	1.0	50	0	100	75 - 121				
Xylenes, Total	157	3.0	150	0	105	80 - 124				
Surr: 1,2-Dichloroethane-d4	*44.07*	*1.0*	*50*	*0*	*88.1*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*47.29*	*1.0*	*50*	*0*	*94.6*	*70 - 125*				
Surr: Dibromofluoromethane	*46.67*	*1.0*	*50*	*0*	*93.3*	*74 - 125*				
Surr: Toluene-d8	*47.63*	*1.0*	*50*	*0*	*95.3*	*75 - 125*				

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
WorkOrder: HS16100008

QC BATCH REPORT

Batch ID: R282403 **Instrument: VOA4** **Method: SW8260**

MSD Sample ID: **HS16100008-16MSD** Units: **ug/L** Analysis Date: **04-Oct-2016 00:21**
Client ID: **MW-23** Run ID: **VOA4_282403** SeqNo: **3846897** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	49.02	1.0	50	0	98.0	75 - 122	51.38	4.7	20	
Ethylbenzene	51.03	1.0	50	0	102	80 - 120	51.71	1.33	20	
Toluene	48.45	1.0	50	0	96.9	75 - 121	50.22	3.6	20	
Xylenes, Total	153.1	3.0	150	0	102	80 - 124	157	2.57	20	
Surr: 1,2-Dichloroethane-d4	*44.41*	*1.0*	*50*	*0*	*88.8*	*71 - 125*	*44.07*	*0.763*	*20*	
Surr: 4-Bromofluorobenzene	*48.4*	*1.0*	*50*	*0*	*96.8*	*70 - 125*	*47.29*	*2.33*	*20*	
Surr: Dibromofluoromethane	*46.7*	*1.0*	*50*	*0*	*93.4*	*74 - 125*	*46.67*	*0.0524*	*20*	
Surr: Toluene-d8	*49.56*	*1.0*	*50*	*0*	*99.1*	*75 - 125*	*47.63*	*3.98*	*20*	

The following samples were analyzed in this batch:

HS16100008-16	HS16100008-17	HS16100008-18	HS16100008-20
HS16100008-22	HS16100008-23	HS16100008-24	HS16100008-27
HS16100008-28	HS16100008-29	HS16100008-31	HS16100008-32
HS16100008-33	HS16100008-35	HS16100008-36	HS16100008-37
HS16100008-38	HS16100008-39	HS16100008-40	HS16100008-42

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
WorkOrder: HS16100008

QC BATCH REPORT

Batch ID: R282405 **Instrument: VOA2** **Method: SW8260**

MBLK Sample ID: **VBLKW-161003** Units: **ug/L** Analysis Date: **03-Oct-2016 10:56**
Client ID: Run ID: **VOA2_282405** SeqNo: **3846996** 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	*59.2*	*1.0*	*50*	*0*	*118*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*50.13*	*1.0*	*50*	*0*	*100*	*70 - 125*				
Surr: Dibromofluoromethane	*58.38*	*1.0*	*50*	*0*	*117*	*74 - 125*				
Surr: Toluene-d8	*52.1*	*1.0*	*50*	*0*	*104*	*75 - 125*				

LCS Sample ID: **VLCSW-161003** Units: **ug/L** Analysis Date: **03-Oct-2016 10:07**
Client ID: Run ID: **VOA2_282405** SeqNo: **3846995** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	45.21	1.0	50	0	90.4	75 - 122				
Ethylbenzene	44.67	1.0	50	0	89.3	80 - 120				
Toluene	46.02	1.0	50	0	92.0	75 - 121				
Xylenes, Total	153.7	3.0	150	0	102	79 - 124				
Surr: 1,2-Dichloroethane-d4	*59.62*	*1.0*	*50*	*0*	*119*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*52.29*	*1.0*	*50*	*0*	*105*	*70 - 125*				
Surr: Dibromofluoromethane	*53.65*	*1.0*	*50*	*0*	*107*	*74 - 125*				
Surr: Toluene-d8	*50.74*	*1.0*	*50*	*0*	*101*	*75 - 125*				

MS Sample ID: **HS16091421-17MS** Units: **ug/L** Analysis Date: **03-Oct-2016 12:59**
Client ID: Run ID: **VOA2_282405** SeqNo: **3847001** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	46.54	1.0	50	0	93.1	75 - 122				
Ethylbenzene	46.69	1.0	50	0	93.4	80 - 120				
Toluene	47.67	1.0	50	0	95.3	75 - 121				
Xylenes, Total	156.8	3.0	150	0	105	80 - 124				
Surr: 1,2-Dichloroethane-d4	*61.18*	*1.0*	*50*	*0*	*122*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*51.48*	*1.0*	*50*	*0*	*103*	*70 - 125*				
Surr: Dibromofluoromethane	*55.75*	*1.0*	*50*	*0*	*111*	*74 - 125*				
Surr: Toluene-d8	*50.61*	*1.0*	*50*	*0*	*101*	*75 - 125*				

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
WorkOrder: HS16100008

QC BATCH REPORT

Batch ID: R282405 **Instrument: VOA2** **Method: SW8260**

MSD Sample ID: **HS16091421-17MSD** Units: **ug/L** Analysis Date: **03-Oct-2016 13:24**
Client ID: Run ID: **VOA2_282405** SeqNo: **3847002** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	46.31	1.0	50	0	92.6	75 - 122	46.54	0.502	20	
Ethylbenzene	45.96	1.0	50	0	91.9	80 - 120	46.69	1.58	20	
Toluene	46.69	1.0	50	0	93.4	75 - 121	47.67	2.09	20	
Xylenes, Total	155.3	3.0	150	0	104	80 - 124	156.8	0.973	20	
Surr: 1,2-Dichloroethane-d4	*61.17*	*1.0*	*50*	*0*	*122*	*71 - 125*	*61.18*	*0.0132*	*20*	
Surr: 4-Bromofluorobenzene	*51.97*	*1.0*	*50*	*0*	*104*	*70 - 125*	*51.48*	*0.946*	*20*	
Surr: Dibromofluoromethane	*54.11*	*1.0*	*50*	*0*	*108*	*74 - 125*	*55.75*	*2.98*	*20*	
Surr: Toluene-d8	*50.87*	*1.0*	*50*	*0*	*102*	*75 - 125*	*50.61*	*0.499*	*20*	

The following samples were analyzed in this batch:

HS16100008-03	HS16100008-06	HS16100008-08	HS16100008-09
HS16100008-19	HS16100008-21	HS16100008-25	HS16100008-26
HS16100008-30	HS16100008-34		

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
WorkOrder: HS16100008

QC BATCH REPORT

Batch ID: R282427 **Instrument: VOA2** **Method: SW8260**

MBLK Sample ID: **VBLKW-161003** Units: **ug/L** Analysis Date: **03-Oct-2016 23:31**
Client ID: Run ID: **VOA2_282427** SeqNo: **3847320** 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	*56.72*	*1.0*	*50*	*0*	*113*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*50.15*	*1.0*	*50*	*0*	*100*	*70 - 125*				
Surr: Dibromofluoromethane	*59.22*	*1.0*	*50*	*0*	*118*	*74 - 125*				
Surr: Toluene-d8	*52.32*	*1.0*	*50*	*0*	*105*	*75 - 125*				

LCS Sample ID: **VLCSW-161003** Units: **ug/L** Analysis Date: **03-Oct-2016 22:42**
Client ID: Run ID: **VOA2_282427** SeqNo: **3847319** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	51.1	1.0	50	0	102	75 - 122				
Ethylbenzene	48.22	1.0	50	0	96.4	80 - 120				
Toluene	50.24	1.0	50	0	100	75 - 121				
Xylenes, Total	165.9	3.0	150	0	111	79 - 124				
Surr: 1,2-Dichloroethane-d4	*60.49*	*1.0*	*50*	*0*	*121*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*51.81*	*1.0*	*50*	*0*	*104*	*70 - 125*				
Surr: Dibromofluoromethane	*55.09*	*1.0*	*50*	*0*	*110*	*74 - 125*				
Surr: Toluene-d8	*51.06*	*1.0*	*50*	*0*	*102*	*75 - 125*				

MS Sample ID: **HS16100009-02MS** Units: **ug/L** Analysis Date: **04-Oct-2016 01:35**
Client ID: Run ID: **VOA2_282427** SeqNo: **3847325** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	46.04	1.0	50	0	92.1	75 - 122				
Ethylbenzene	45.96	1.0	50	0	91.9	80 - 120				
Toluene	47.02	1.0	50	0	94.0	75 - 121				
Xylenes, Total	154.8	3.0	150	0	103	80 - 124				
Surr: 1,2-Dichloroethane-d4	*59.48*	*1.0*	*50*	*0*	*119*	*71 - 125*				
Surr: 4-Bromofluorobenzene	*51.86*	*1.0*	*50*	*0*	*104*	*70 - 125*				
Surr: Dibromofluoromethane	*54.74*	*1.0*	*50*	*0*	*109*	*74 - 125*				
Surr: Toluene-d8	*50.97*	*1.0*	*50*	*0*	*102*	*75 - 125*				

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
WorkOrder: HS16100008

QC BATCH REPORT

Batch ID: R282427 **Instrument: VOA2** **Method: SW8260**

MSD Sample ID: **HS16100009-02MSD** Units: **ug/L** Analysis Date: **04-Oct-2016 02:00**
Client ID: Run ID: **VOA2_282427** SeqNo: **3847326** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	43.65	1.0	50	0	87.3	75 - 122	46.04	5.33	20	
Ethylbenzene	44.72	1.0	50	0	89.4	80 - 120	45.96	2.75	20	
Toluene	45.43	1.0	50	0	90.9	75 - 121	47.02	3.46	20	
Xylenes, Total	149.8	3.0	150	0	99.9	80 - 124	154.8	3.27	20	
Surr: 1,2-Dichloroethane-d4	*60.87*	*1.0*	*50*	*0*	*122*	*71 - 125*	*59.48*	*2.31*	*20*	
Surr: 4-Bromofluorobenzene	*52.8*	*1.0*	*50*	*0*	*106*	*70 - 125*	*51.86*	*1.8*	*20*	
Surr: Dibromofluoromethane	*54.04*	*1.0*	*50*	*0*	*108*	*74 - 125*	*54.74*	*1.29*	*20*	
Surr: Toluene-d8	*50.98*	*1.0*	*50*	*0*	*102*	*75 - 125*	*50.97*	*0.0141*	*20*	

The following samples were analyzed in this batch: HS16100008-41 HS16100008-43 HS16100008-44 HS16100008-45

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

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
WorkOrder: **HS16100008**

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 Quantitaion 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	16-022-1	27-Mar-2017
California	2919 2016-2018	31-Jul-2018
Illinois	003872	09-May-2017
Kansas	E-10352 2015-2016	30-Oct-2016
Kentucky	96 2016-2017	30-Apr-2017
Louisiana	03087 2016-2017	30-Jun-2017
North Carolina	624 - 2016	31-Dec-2016
North Dakota	R193 2016-2017	30-Apr-2017
Oklahoma	2016-122	31-Aug-2017
Texas	TX104704231-16-17	30-Apr-2017

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Work Order: HS16100008

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS16100008-01	MW-1	Login	10/1/2016 11:41:15 AM	PMG	VW-3
HS16100008-02	MW-1D	Login	10/1/2016 11:44:28 AM	PMG	VW-3
HS16100008-03	MW-4	Login	10/1/2016 11:44:28 AM	PMG	VW-3
HS16100008-04	MW-5	Login	10/1/2016 11:44:28 AM	PMG	VW-3
HS16100008-05	MW-6	Login	10/1/2016 11:44:28 AM	PMG	VW-3
HS16100008-06	MW-8	Login	10/1/2016 11:44:28 AM	PMG	VW-3
HS16100008-07	MW-10	Login	10/1/2016 11:44:28 AM	PMG	VW-3
HS16100008-08	MW-11	Login	10/1/2016 11:44:28 AM	PMG	VW-3
HS16100008-09	MW-12	Login	10/1/2016 11:44:28 AM	PMG	VW-3
HS16100008-10	MW-14	Login	10/1/2016 11:46:26 AM	PMG	VW-3
HS16100008-11	MW-17	Login	10/1/2016 11:46:26 AM	PMG	VW-3
HS16100008-12	MW-18	Login	10/1/2016 11:46:26 AM	PMG	VW-3
HS16100008-13	MW-19	Login	10/1/2016 11:46:26 AM	PMG	VW-3
HS16100008-14	MW-20	Login	10/1/2016 11:46:26 AM	PMG	VW-3
HS16100008-15	MW-22	Login	10/1/2016 11:53:55 AM	PMG	VW-3
HS16100008-16	MW-23	Login	10/1/2016 11:53:55 AM	PMG	VW-3
HS16100008-17	MW-24	Login	10/1/2016 11:53:55 AM	PMG	VW-3
HS16100008-18	MW-25	Login	10/1/2016 11:53:55 AM	PMG	VW-3
HS16100008-19	MW-26	Login	10/1/2016 11:56:45 AM	PMG	VW-3
HS16100008-20	MW-29	Login	10/1/2016 11:56:45 AM	PMG	VW-3
HS16100008-21	MW-A	Login	10/1/2016 11:56:45 AM	PMG	VW-3
HS16100008-22	MW-E	Login	10/1/2016 11:56:45 AM	PMG	VW-3
HS16100008-23	MW-F	Login	10/1/2016 11:56:45 AM	PMG	VW-3
HS16100008-24	MW-I	Login	10/1/2016 11:56:45 AM	PMG	VW-3
HS16100008-25	MW-M	Login	10/1/2016 11:56:45 AM	PMG	VW-3
HS16100008-26	MW-O	Login	10/1/2016 11:56:45 AM	PMG	VW-3
HS16100008-27	MW-Q	Login	10/1/2016 11:58:44 AM	PMG	VW-3
HS16100008-28	MW-S	Login	10/1/2016 11:58:44 AM	PMG	VW-3
HS16100008-29	MW-EE	Login	10/1/2016 11:58:44 AM	PMG	VW-3
HS16100008-30	MW-LL	Login	10/1/2016 11:58:44 AM	PMG	VW-3
HS16100008-31	MW-MM	Login	10/1/2016 11:58:44 AM	PMG	VW-3
HS16100008-32	NMG MW-2	Login	10/1/2016 11:58:44 AM	PMG	VW-3
HS16100008-33	NMG MW-3	Login	10/1/2016 11:58:44 AM	PMG	VW-3
HS16100008-34	NMG MW-4	Login	10/1/2016 11:58:44 AM	PMG	VW-3
HS16100008-35	NMG MW-6	Login	10/1/2016 12:00:34 PM	PMG	VW-3
HS16100008-36	NMG MW-7	Login	10/1/2016 12:00:34 PM	PMG	VW-3
HS16100008-37	NMG MW-8	Login	10/1/2016 12:00:34 PM	PMG	VW-3
HS16100008-38	NMG MW-10	Login	10/1/2016 12:00:34 PM	PMG	VW-3
HS16100008-39	NMG MW-11	Login	10/1/2016 12:00:34 PM	PMG	VW-3
HS16100008-40	House Well	Login	10/1/2016 12:00:34 PM	PMG	VW-3

Client: Tasman Geosciences
Project: DCP Eldridge Ranch
Work Order: HS16100008

SAMPLE TRACKING

HS16100008-41	Irrigation Well	Login	10/1/2016 12:00:34 PM	PMG	VW-3
HS16100008-42	Duplicate A	Login	10/1/2016 12:01:51 PM	PMG	VW-3
HS16100008-43	Duplicate B	Login	10/1/2016 12:01:51 PM	PMG	VW-3
HS16100008-44	Duplicate C	Login	10/1/2016 12:01:51 PM	PMG	VW-3
HS16100008-45	Trip Blank 1 (091516-09)	Login	10/1/2016 12:01:51 PM	PMG	VW-3

Sample Receipt Checklist

Client Name: Tasman Geosciences
Work Order: HS16100008
Date/Time Received: **01-Oct-2016 10:30**
Received by: **Jared R. Makan**

Checklist completed by: *Paresh M. Giga* eSignature 1-Oct-2016 Date
Reviewed by: *Bernadette A. Fini* eSignature 4-Oct-2016 Date

Matrices: **Water**
Carrier name: **FedEx**

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 ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
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):	1.3c/1.8c, 1.1c/1.6c U/C	IR5	
Cooler(s)/Kit(s):	25343,25320		
Date/Time sample(s) sent to storage:	10/1/16 12:55		
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: Received only 1 Trip Blank . Cooler 25343 had no Trip Blank.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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ALS Environmental

Chain of Custody Form

COC ID: 149203

ALS Project Manager:		ALS Work Order #:	

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	DCP Eldridge Ranch	A	BTEX (8260)
Work Order		Project Number	390362060 F210	B	
Company Name	Tasman Geosciences	Bill To Company	DCP Midstream, LP	C	
Send Report To	Brian Humphrey	Invoice Attn	Stephen Weathers	D	HS16100008
Address	5690 Webster Street	Address	370 17th Street, Suite 2500	E	Tasman Geosciences
				F	DCP Eldridge Ranch
City/State/Zip	Arvada	City/State/Zip	Denver Colorado 80102	G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address	bhumphrey@tasman-geo.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1	9-27-16	1159	Water	HCL	3	X										
2	MW-1D		1203	Water	HCL	3	X										
3	MW-4		1255	Water	HCL	3	X										
4	MW-5		1310	Water	HCL	3	X										
5	MW-6		1342	Water	HCL	3	X										
6	MW-8		1500	Water	HCL	3	X										
7	MW-10		1520	Water	HCL	3	X										
8	MW-11		1455	Water	~~HCL~~ None	3	X										
9	MW-12		1504	Water	~~HCL~~ None	3	X										
10																	

Sampler(s) Please Print & Sign: Mitchell Weller

Shipment Method: FedEx Overnight

Required Turnaround Time: (Check Box) ☒ Std 10 WK days ☐ 6 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
Mitchell Weller	9-30-16	0900	
Relinquished by:	Date:	Time:	Received by (Laboratory):
			JM 10/01/16 10:30
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.
25403	1.3
25320	1.1
	1.2.5
	CF0.3

QC Package: (Check One Box Below)
☒ Level 2 Std QC ☐ TRRP ChkList
☐ Level 3 Std QC/Row de ☐ TRRP Level 4
☐ Level 4 SW846/CLP
☐ Other/EDD

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 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.

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Chain of Custody Form

COC ID: 149202

ALS Project Manager:		ALS Work Order #:	

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	DCP Eldridge Ranch	A	BTEX (8260)
Work Order		Project Number	390362060 F210	B	
Company Name	Tasman Geosciences	Bill To Company	DCP Midstream, LP	C	
Send Report To	Brian Humphrey	Invoice Attn	Stephen Weathers	D	
Address	5690 Webster Street	Address	370 17th Street, Suite 2500	E	
				F	
City/State/Zip	Arvada	City/State/Zip	Denver Colorado 80102	G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address	bhumphrey@tasman-geo.com	e-Mail Address		J	

HS16100008

Tasman Geosciences

DCP Eldridge Ranch

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-14	9-27-16	1150	Water	HCL	3	X										
2	MW-17		1120	Water	HCL	3	X										
3	MW-18		1415	Water	HCL	3	X										
4	MW-19		1420	Water	HCL	3	X										
5	MW-20		1520	Water	HCL	3	X										
6	MW-22		1205	Water	HCL	3	X										
7	MW-23		1125	Water	HCL	3	X										
8	MW-24		1110	Water	HCL	3	X										
9	MW-25		0930	Water	HCL	3	X										
10																	

Sampler(s) Please Print & Sign: Mitchell Weller

Shipment Method: FedEx Overnight

Required Turnaround Time: (Check Box) ☒ Std 10 WK days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
Mitchell Weller	9-30-16	0900	
Relinquished by:	Date:	Time:	Received by (Laboratory):
			JM 10/01/16 10:30
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.
25343	1.3
25320	1.1
	1.5

CF05

QC Package: (Check One Box Below)
☒ Level 2 Std QC ☐ TRRP ChkList
☐ Level 3 Std QC/Raw da ☐ TRRP Level 4
☐ Level 4 SW846/CLP
☐ Other/EDD

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 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.

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York, PA +1 717 505 5280

Chain of Custody Form

COC ID: 149201

ALS Project Manager:		ALS Work Order #:	

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	DCP Eldridge Ranch	A	BTEX (8260)
Work Order		Project Number	390362060 F210	B	
Company Name	Tasman Geosciences	Bill To Company	DCP Midstream, LP	C	
Send Report To	Brian Humphrey	Invoice Attn	Stephen Weathers	D	HS16100008
Address	5690 Webster Street	Address	370 17th Street, Suite 2500	E	Tasman Geosciences
				F	DCP Eldridge Ranch
City/State/Zip	Arvada	City/State/Zip	Denver Colorado 80102	G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address	bhumphrey@tasman-geo.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-26	9-27-16	1105	Water	~~HCL~~ None	3	X										
2	MW-29		1040	Water	HCL	3	X										
3	MW-A		1200	Water	HCL	3	X										
4	MW-E		1359	Water	HCL	3	X										
5	MW-F		1402	Water	HCL	3	X										
6	MW-I		1450	Water	HCL	3	X										
7	MW-M		1420	Water	HCL	3	X										
8	~~MW-N~~ MW	X	X	~~Water~~	~~HCL~~	~~X~~	~~X~~										
9	MW-O	9-27-16	1310	Water	HCL	3	X										
10																	

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
Mitchell Weller	FedEx Overnight	[X] Std 10 WK days [ ] 5 WK Days [ ] 2 WK Days [ ] 24 Hour [ ] Other	

Relinquished by:	Date:	Time:	Received by:
Mitchell Weller	9-30-16	0900	
Relinquished by:	Date:	Time:	Received by (Laboratory):
			JM 10/01/16 10:30
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.
25343	1.3
25320	1.1
	1.5 CF0.5

QC Package: (Check One Box Below)
- [X] Level 2 Std QC
- [ ] Level 3 Std QC/Raw da
- [ ] Level 4 SW846/CLP
- [ ] Other/EDD
- [ ] TRRP Checklist
- [ ] TRRP Level 4

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 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.
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York, PA +1 717 505 5280

ALS Environmental

Chain of Custody Form

COC ID: 149200

ALS Project Manager:		ALS Work Order #:	

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	DCP Eldridge Ranch	A	BTEX (8260)
Work Order		Project Number	390362060 F210	B	
Company Name	Tasman Geosciences	Bill To Company	DCP Midstream, LP	C	
Send Report To	Brian Humphrey	Invoice Attn	Stephen Weathers	D	
Address	5690 Webster Street	Address	370 17th Street, Suite 2500	E	
				F	
City/State/Zip	Arvada	City/State/Zip	Denver Colorado 80102	G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address	bhumphrey@tasman-geo.com	e-Mail Address		J	

HS16100008
Tasman Geosciences
DCP Eldridge Ranch

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-Q	9-27-16	1255	Water	HCL		3 X										
2	MW-S		1240	Water	HCL		3 X										
3	MW-EE		1120	Water	HCL		3 X										
4	MW-LL		1345	Water	HCL		3 X										
5	MW-MM		1130	Water	HCL		3 X										
6	NMG MW-2		0755	Water	HCL		3 X										
7	NMG MW-3		0740	Water	HCL		3 X										
8	NMG MW-4		0915	Water	~~HCL~~ None		3 X										
9	~~NMG~~ MW-5 MRW	X	X	~~Water~~	~~HCL~~	X	~~3~~ X										
10																	

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
Mitchell Weller	FedEx Overnight	[X] Std 10 WK days [ ] 5 WK Days [ ] 2 WK Days [ ] 24 Hour [ ] Other	

Relinquished by:	Date:	Time:	Received by:
Mitchell Weller	9-30-16	0900	
Relinquished by:	Date:	Time:	Received by (Laboratory):
			JM 10/21/16 10:30
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.
25343	1.3
25310	1.1
	1.2.5

CFO.5

QC Package: (Check One Box Below)
[X] Level 2 Std QC [ ] TRRP Checklist
[ ] Level 3 Std QC/Raw da [ ] TRRP Level 4
[ ] Level 4 SW846/CLP
[ ] Other/EDD

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 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.

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Houston, TX +1 281 530 5656 | Spring City, PA +1 610 948 4903 | South Charleston, WV +1 304 356 3168
Middletown, PA +1 717 944 5541 | Salt Lake City, UT +1 801 266 7700 | York, PA +1 717 505 5280

Chain of Custody Form

COC ID: 149199

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	DCP Eldridge Ranch	A	BTEX (8260)
Work Order		Project Number	390362060 F210	B	
Company Name	Tasman Geosciences	Bill To Company	DCP Midstream, LP	C	
Send Report To	Brian Humphrey	Invoice Attn	Stephen Weathers	D	
Address	5690 Webster Street	Address	370 17th Street, Suite 2500	E	
				F	
City/State/Zip	Arvada	City/State/Zip	Denver Colorado 80102	G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address	bhumphrey@tasman-geo.com	e-Mail Address		J	

HS16100008
Tasman Geosciences
DCP Eldridge Ranch

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	NMG MW-6	9-27-16	0820	Water	HCL		3 X										
2	NMG MW-7	↓	0837	Water	HCL		3 X										
3	NMG MW-8		0830	Water	HCL		3 X										
4	NMG MW-10		0905	Water	HCL		3 X										
5	NMG MW-11	↓	0850	Water	HCL		3 X										
6	~~NMG MW-12~~ MRW	X	X	~~Water~~	~~HCL~~	X	3 ~~X~~										
7	~~NMG MW-13~~ MRW	X	X	~~Water~~	~~HCL~~	X	3 ~~X~~										
8	House Well	9-27-16	1133	Water	HCL		3 X										
9	Irrigation Well	↓	1040	Water	HCL		3 X										
10																	

Sampler(s) Please Print & Sign: Mitchell Weller

Shipment Method: FedEx Overnight

Required Turnaround Time: (Check Box) ☒ Std 10 WK days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by: Mitchell Weller | Date: 9-30-16 | Time: 0900 | Received by:

Relinquished by: | Date: | Time: | Received by (Laboratory): JM 10/01/16 10:30

Logged by (Laboratory): | Date: | Time: | Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.
25343	1.3
25320	1.1
	1.2.5
	COR.S

QC Package: (Check One Box Below)
☒ Level 2 Std QC ☐ TRRP ChkList
☐ Level 3 Std QC/Raw da ☐ TRRP Level 4
☐ Level 4 SW846/CLP
☐ Other/EDD

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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Middletown, PA +1 717 944 5541 | Salt Lake City, UT +1 801 266 7700 | York, PA +1 717 505 5280

Chain of Custody Form

COC ID: 149198

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	DCP Eldridge Ranch	A	BTEX (8260)
Work Order		Project Number	390362060 F210	B	
Company Name	Tasman Geosciences	Bill To Company	DCP Midstream, LP	C	
Send Report To	Brian Humphrey	Invoice Attn	Stephen Weathers	D	
Address	5690 Webster Street	Address	370 17th Street, Suite 2500	E	
				F	
City/State/Zip	Arvada	City/State/Zip	Denver Colorado 80102	G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address	bhumphrey@tasman-geo.com	e-Mail Address		J	

HS16100008
Tasman Geosciences
DCP Eldridge Ranch

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Duplicate A	9-27-16	—	Water	HCL	3	X										
2	Duplicate B	↓	—	Water	HCL	3	X										
3	Duplicate C		—	Water	HCL	3	X										
4	Trip Blank 1	—	—	Water	HCL	2	X										
5	Trip Blank 2	—	—	Water	HCL	2	X										
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Mitchell Weller

Shipment Method: FedEx Overnight

Required Turnaround Time: (Check Box) [X] Std 10 WK days [ ] 5 WK Days [ ] 2 WK Days [ ] 24 Hour [ ] Other

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
Mitchell Weller	9-30-16	0900	
Relinquished by:	Date:	Time:	Received by (Laboratory):
			JM 10/01/16 10:30
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp.
25343	1.3
25329	1.1
	1.2.5

CF 0.3

QC Package: (Check One Box Below)
[X] Level 2 Std QC [ ] TRRP ChkList
[ ] Level 3 Std QC/Raw da [ ] TRRP Level 4
[ ] Level 4 SW846/CLP
[ ] Other/EDD

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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