



TETRA TECH

January 25, 2021

Mr. Dylan Rose-Coss
New Mexico Energy, Minerals, & Natural Resources Oil
Conservation Division, Environmental Bureau 1220 S.
St. Francis Drive
Santa Fe, New Mexico 87505

Review of 2020 Groundwater Sampling
Report: Content satisfactory

1. Continue semi-annual groundwater monitoring of the nine monitor wells at the site
2. Quarterly pumping of monitor well MW-7, with a sample to be obtained following the completion of each event
3. Submit the Annual Monitoring Report to the OCD no later than March 31, 2022

**Re: 2020 Groundwater Sampling Report
Occidental Permian, Ltd.
E.C. Hill Federal B-D Tank Battery and E.C. Hill Federal #7 Tank Battery,
Sections 34 and 35, Township 23 South, Range 37 East, Lea County, New
Mexico, OCD Case Numbers 1R491 and 1R492, respectively.**

Mr. Rose-Coss,

This report details the results of the 2020 semiannual sampling events performed at the OXY USA, Inc. (OXY) E. C. Hill Federal B-D and E.C. Hill Federal #7 Tank Battery sites. The two sites are located adjacent to one another approximately 9 miles north/northeast of Jal, Lea County, New Mexico. Due to their close proximity and lack of plume distinction, the two sites are included in one report. The Site locations are shown on **Figure 1 and 2**.

FACILITY BACKGROUND

The facilities are historic tank batteries, which accumulated spills from previous operators. Prior to OXY, the facilities were operated by Plains Exploration (PXP), Pogo Producing Company (Pogo), and Latigo Petroleum, Inc. (Latigo). In March 2008, OXY acquired operating responsibility for this site from PXP.

2006 Initial Soil Investigation

In 2006, as part of a due diligence investigation, a soil investigation was performed at the site. The soil investigation consisted of the placement of ten (10) auger holes (AH) and three (3) boreholes (BH) to assess the subsurface soils in and around the tank battery. The auger hole soil samples were found to be impacted with hydrocarbons to depths of 1 to 6 feet below ground surface (bgs), with several auger holes not vertically delineated. In order to complete delineation, three soil borings (BH-1 through BH-3) were drilled in these areas. Based on the results of the investigation, Total Petroleum Hydrocarbons (TPH) was detected to depths of 25 feet bgs, 15 feet bgs, and 60 feet bgs in boreholes BH-1 through BH-3, respectively. Borehole BH-3, which had hydrocarbon impacts to a depth of 60 feet bgs, was converted to a monitor well (MW-1) to assess the groundwater quality at the site.

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In September 2006 and May 2007, the well was purged and sampled per New Mexico Oil Conservation Division (NMOCD) guidelines for analysis of chlorides and Benzene, Toluene, Ethylbenzene and Xylenes (BTEX). BTEX was not detected at or above reporting limits for either sampling event. Chloride concentrations exceeded the New Mexico Water Quality Control Commission (NMWQCC) standards for both sampling events, with concentrations of 1,150 milligrams per liter (mg/L) and 729 mg/L, respectively.

In 2006, as part of a due diligence investigation, additional soil investigation was performed at the site. The soil investigation consisted of placement of seven (7) auger holes (AH) and one (1) borehole (BH) to assess the subsurface soils in an impacted area south of the tank battery. Borehole BH-1, which had hydrocarbon impacts to a depth of 40 feet bgs, was converted to a monitor well (MW-7) to assess the groundwater quality at the site.

In September 2006 and May 2007, the well was purged and sampled per NMOCD guidelines for analysis of chlorides and BTEX. For the September 2006 sampling event, the chloride and BTEX concentrations did not exceed the NMWQCC standards. During the May 2007 sampling event, the BTEX concentration was below the NMWQCC standards, however, chlorides exceeded the NMWQCC standard with a concentration of 1,220 mg/L.

In order to complete delineation of the groundwater impacts at the two sites, an additional five monitor wells (MW-2 through MW-6) were installed at the sites between December 4 and December 11, 2007. The newly installed monitor wells were sampled in October 2008. BTEX was not detected above the method detection limit in any of the monitor wells. Chloride concentrations ranged from 87.8 mg/L to 1,040 mg/L. Analytical results indicated that groundwater impacts were not delineated to the south and to the southeast of the sites.

Monitor Well Installation and Delineation

In order to complete delineation of the groundwater impacts at the two sites, an additional two monitor wells (MW-8 and MW-9) were installed between October 30 and 31, 2012. The locations of the monitor wells are presented on **Figure 3**. The newly installed monitor wells were sampled on November 16, 2012. Analytical results indicated that with the installation of the two new wells, the groundwater impacts were delineated to the south and to the southeast.

2015 Soil Investigation

In 2015 additional soil investigation was performed at the sites. The soil investigation consisted of placement of eleven (11) soil borings to assess the subsurface soils. The soil borings (SB-1 through SB-11) were drilled to depths ranging from 20 feet bgs to 71 feet bgs. Soil samples were collected at five-foot intervals and analyzed for gasoline range organics (GRO), diesel range organics (DRO), TPH, BTEX and chlorides. Total TPH impacts were found in soil borings SB-1, SB-2, SB-3, and SB-7. Chloride impacts were found in soil borings SB-1, SB-2, SB-3, SB-4, SB-7, SB-8, SB-10 and SB-11.



2020 GAUGING AND MONITOR WELL SAMPLING

Tetra Tech personnel were onsite to gauge all monitor wells during the first and third quarters of 2020. All the monitor wells on site were gauged with an electronic interface probe to the nearest 0.01 foot. The gauging data is summarized in **Table 1**. PSH was not measured during these sampling events. Groundwater gradient maps generated for the two 2020 sampling events indicate a groundwater gradient to the southeast. Groundwater gradient maps for the two 2020 sampling events are included as **Figures 4 and 5**.

During each groundwater sampling event, the monitor wells were purged to remove three well casing volumes of water using disposable rope or twine with a new polyethylene bailer for each well. The sample bottles were filled directly from the bailers. The sample bottles were placed on ice and shipped under proper chain-of-custody control to ALS Laboratories of Houston, Texas for analysis of BTEX by EPA Method SW8260 and chlorides by EPA Method E300.

Analytical results indicate that BTEX concentrations were below method detection limits during all of the sampling events.

Chloride analytical results for monitor wells MW-2, MW-6, and MW-9 were below NMWQCC standards for both 2020 sampling events which is consistent with results from previous years. Chloride analytical results for monitor wells MW-1, MW-5 and MW-7 exceeded the NMWQCC standards during both 2020 sampling events. Monitor wells MW-3 and MW-4 exceeded the NMWQCC chloride standards for the February 20, 2020 sampling event. Monitor well MW-8 exceeded the NMWQCC chloride standards for the August 13, 2020 sampling event. Analytical results are summarized in **Table 2**.

Graphs of chloride concentrations versus groundwater elevations for each of the monitor wells are included in **Appendix A**. The graphs for monitor well MW-4 indicates a fluctuating but generally decreasing trend. The graphs for monitor wells MW-2, MW-6, and MW-9 indicate generally stable concentrations with a slight increasing trend in monitor well MW-2. The graphs for monitor wells MW-3 and MW-7 indicate fluctuating concentrations, although MW-7 exhibits a generally decreasing trend since June 17, 2015. The graphs for monitor wells MW-1, MW-5 and MW-8 indicate increasing trends with concentrations remaining within the range of previously detected concentrations, with the exception of the new historic maximum concentration detected during the August sampling event in MW-8, reported at 257 mg/L, which is slightly higher than the previously reported historic maximum concentration of 243 mg/L.

Chloride concentration maps for the two 2020 sampling events are included as **Figures 6 and 7**. The groundwater analytical data is summarized in **Table 2**. Copies of the laboratory analytical reports are included in **Appendix B**.

Monitor Well MW-7 Pumping and Sampling

Four quarterly pumping and sampling events were conducted in monitor well MW-7 during 2020. During each of these pumping and sampling events, 500 gallons of



water was pumped into a 500-gallon tank. An initial groundwater sample was collected prior to pumping and additional groundwater samples were collected at one hundred-gallon intervals, for a total of six groundwater samples collected during each event. The groundwater samples were analyzed for chlorides and the laboratory analytical results are summarized in **Table 3**.

Although chloride concentrations fluctuated during each pumping event, there was a general trend of increasing concentrations during each pumping event. However, chloride concentrations in monitor well MW-7 exhibit a generally decreasing trend since June 17, 2015, indicating that quarterly pumping of monitor well MW-7 is decreasing chloride concentrations. Laboratory reports and analytical results are included in **Appendix B**.

CONCLUSIONS

1. Chloride concentrations for monitor wells MW-1, MW-3, MW-4, MW-5, MW-7, and MW-8 exceed the NMWQCC standard of 250 mg/L for the 2020 sampling events.
2. Chloride concentrations for monitor wells MW-2, MW-6, and MW-9 were below the NMWQCC standard of 250 mg/L for the 2020 sampling events.
3. Analytical results indicate that all monitor wells sampled do not have BTEX concentrations above the method detection limits.
4. During 2020, chloride concentrations in monitor well MW-4 exhibited a fluctuating but generally decreasing trend.
5. Chloride concentrations in monitor wells MW-2, MW-6, and MW-9 in 2019 exhibited generally stable concentrations with a slight increasing trend in monitor well MW-2.
6. Chloride concentrations in monitor wells MW-3 and MW-7 exhibit fluctuating concentrations in 2020, although monitor well MW-7 has exhibited a generally decreasing trend since June 17, 2015.
7. Chloride concentrations in monitor wells MW-1, MW-5 and MW-8 indicate increasing trends in 2020 with concentrations remaining within the range of previously detected concentration, with the exception of the new historic maximum concentration detected during the August sampling event in MW-8, reported at 257 mg/L, which is slightly higher than the previously reported historic maximum concentration of 243 mg/L.
8. Four quarterly pumping and sampling events were conducted in monitor well MW-7 during 2020. Chloride concentrations in monitor well MW-7 exhibit a generally decreasing trend since June 17, 2015, indicating that quarterly pumping of monitor well MW-7 is decreasing chloride concentrations.
9. Groundwater gradient maps generated for the two 2020 sampling events



indicate a groundwater gradient to the southeast.

PROPOSED 2021 GROUNDWATER MONITORING PROGRAM

The following activities are proposed for 2021:

- Semi-annual groundwater monitoring of the nine monitor wells at the site.
- Quarterly pumping of monitor well MW-7, with one sample to be obtained from monitor well MW-7 following the completion of each quarterly pumping event rather than sampling during 100-gallon pumping intervals.

If you have any questions or comments concerning this report, please feel free to contact Ray Cheatham at (713)203-0852.

Respectfully submitted,
Tetra Tech, Inc.

A handwritten signature in black ink, appearing to read 'R Cheatham'.

Ray Cheatham, PG
Principal Geologist

A handwritten signature in blue ink, appearing to read 'G W Pope'.

Greg W. Pope, PG
Principal Geologist

Attachments:

Figures

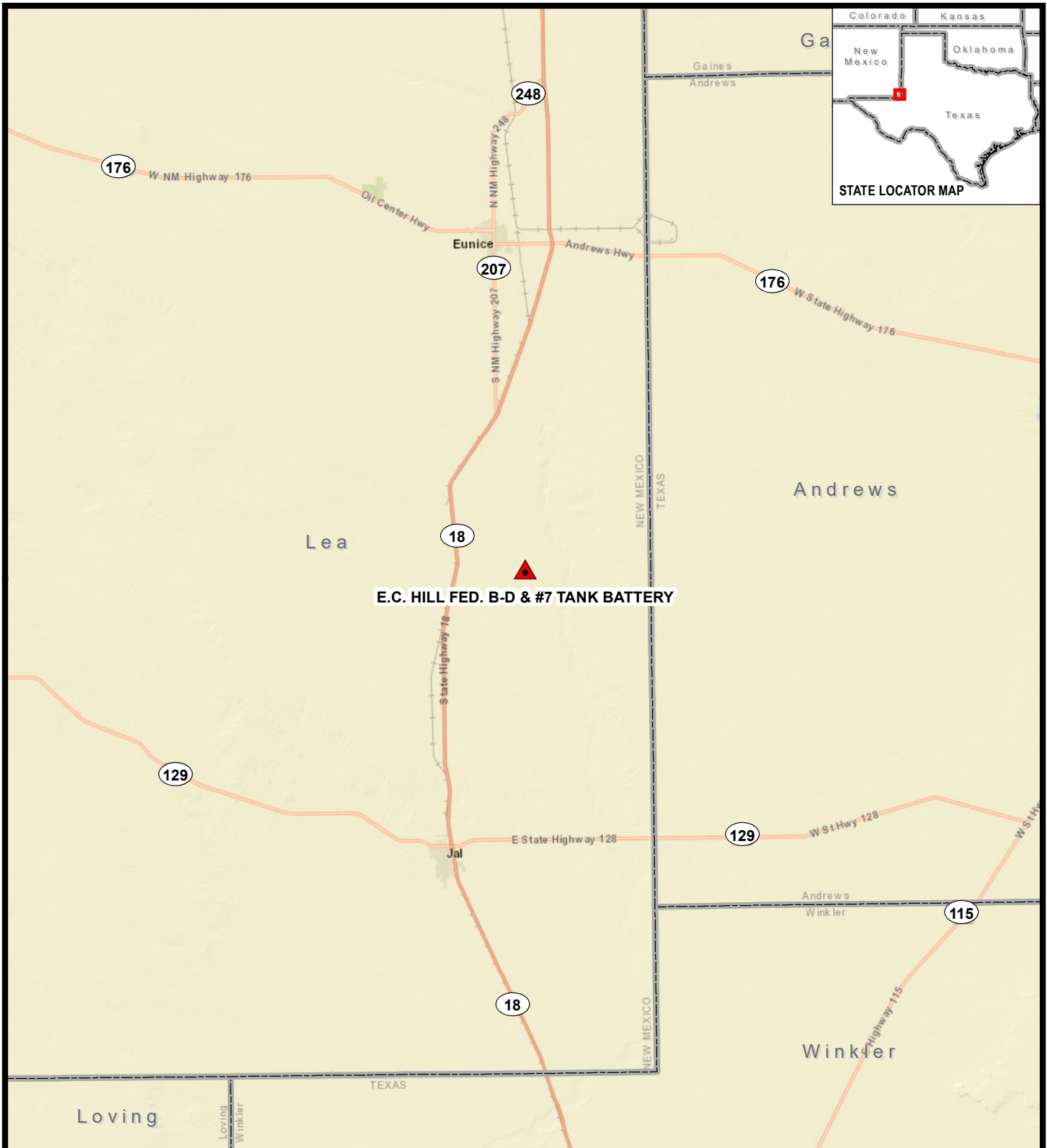
Tables

Appendix A - Graphs

Appendix B - Lab Reports

cc: Dusty Wilson – Glenn Springs Holdings, Inc.

Figures



 SITE LOCATION



0 2.5 5
Miles
Approximate Scale in Miles

OVERVIEW MAP
E.C. HILL FEDERAL B-D & #7 TANK BATTERY
(32.264787°, -103.141984°)
LEA COUNTY, NEW MEXICO

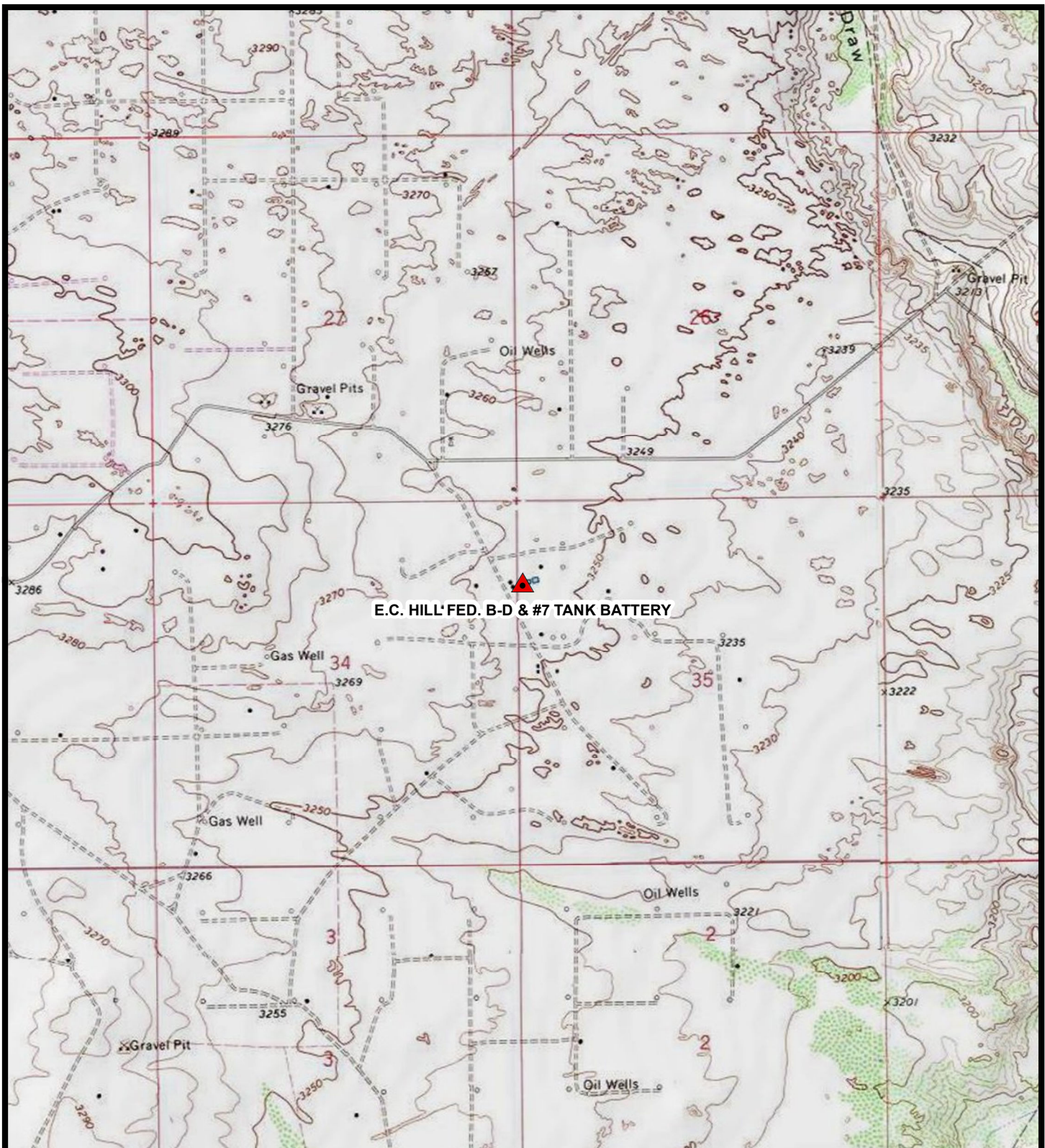
GLENN SPRINGS HOLDINGS



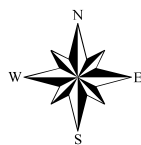
Project #:
212C-MD-02107

FIGURE
1

Source: ESRI Basemap - Streets, 2020.



 SITE LOCATION



0 1,000 2,000
Feet
Approximate Scale in Miles

Source: National Geographic Society, i-cubed,
USA Topo Maps, 2013.

TOPOGRAPHIC MAP
E.C. HILL FEDERAL B-D & #7 TANK BATTERY
(32.264787°, -103.141984°)
LEA COUNTY, NEW MEXICO

GLENN SPRINGS HOLDINGS



Project #:
212C-MD-02107

FIGURE
2



FIGURE NO. 3

LEGEND ⊕ MONITOR WELL LOCATIONS	NOTES:	 TETRA TECH 901 W. WALL STREET STE. 100 MIDLAND, TEXAS (432) 682-4559	GLENN SPRINGS HOLDINGS NORTH 0 20 60ft	SITE MAP E.C. HILL FEDERAL #7 & B, D TB LEA COUNTY, NEW MEXICO <table border="1"><tr><td>Project: 212C-MD-02107</td><td>REV.</td></tr><tr><td>Date: 7/7/2019</td><td></td></tr><tr><td>File: H:\Acad Data\GLENN SPRINGS\2015\212C-MD-01686 EC HILL FED #7</td><td></td></tr></table>	Project: 212C-MD-02107	REV.	Date: 7/7/2019		File: H:\Acad Data\GLENN SPRINGS\2015\212C-MD-01686 EC HILL FED #7	
Project: 212C-MD-02107	REV.									
Date: 7/7/2019										
File: H:\Acad Data\GLENN SPRINGS\2015\212C-MD-01686 EC HILL FED #7										



SOURCE: "NEW MEXICO" 32°15'53.23"N, 103° 8'31.14"W. **GOOGLE EARTH.**
FEBRUARY 20, 2019. APRIL 20, 2020

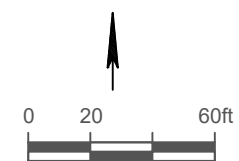
NOTES:

1. ALL ELEVATIONS IN FEET AMSL



901 W. WALL STREET STE. 100
MIDLAND, TEXAS

NORTH



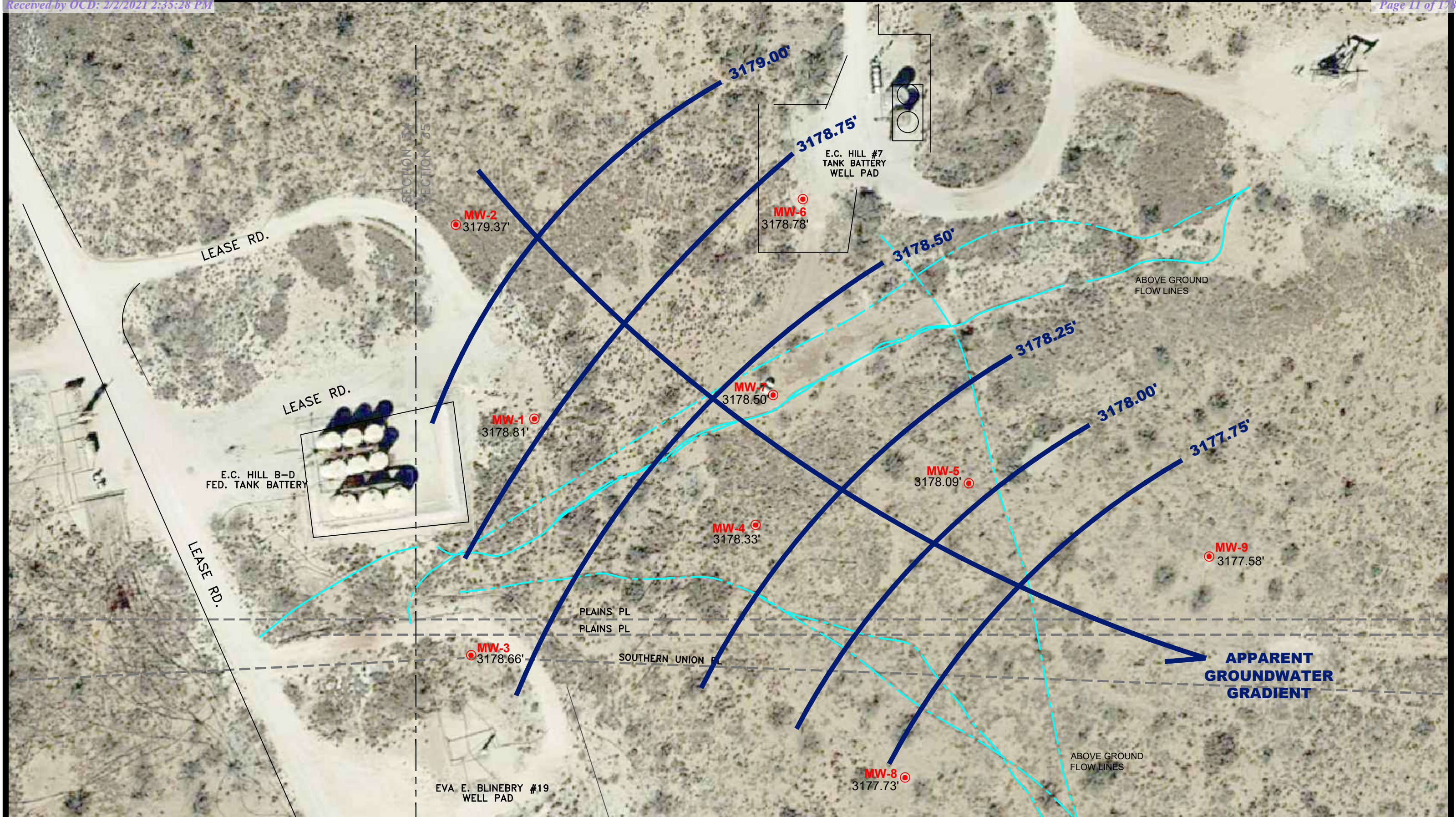
GROUND WATER GRADIENT MAP
FEBRUARY 21, 2020
E.C. HILL FEDERAL B-D #7 TB
LEA COUNTY, NEW MEXICO

Project: 212C-MD-02107

Date: 11/03/20

File: M:\Acad Data\GLENN SPRINGS\2020\212C-MD-02107 E.C. HILL FEDERAL #7 & B.D

REV.



LEGEND

- = MONITOR WELL LOCATIONS
- = BURIED PIPELINE
- = ABOVEGROUND FLOWLINE
- = CONTOUR INTERVALS .25 FT.
- = APPARENT GROUND WATER GRADIENT DIRECTIONAL

NOTES:

1. ALL ELEVATIONS IN FEET AMSL



TETRA TECH
901 W. WALL STREET STE. 100
MIDLAND, TEXAS

GLENN SPRINGS HOLDINGS

NORTH



FIGURE 5

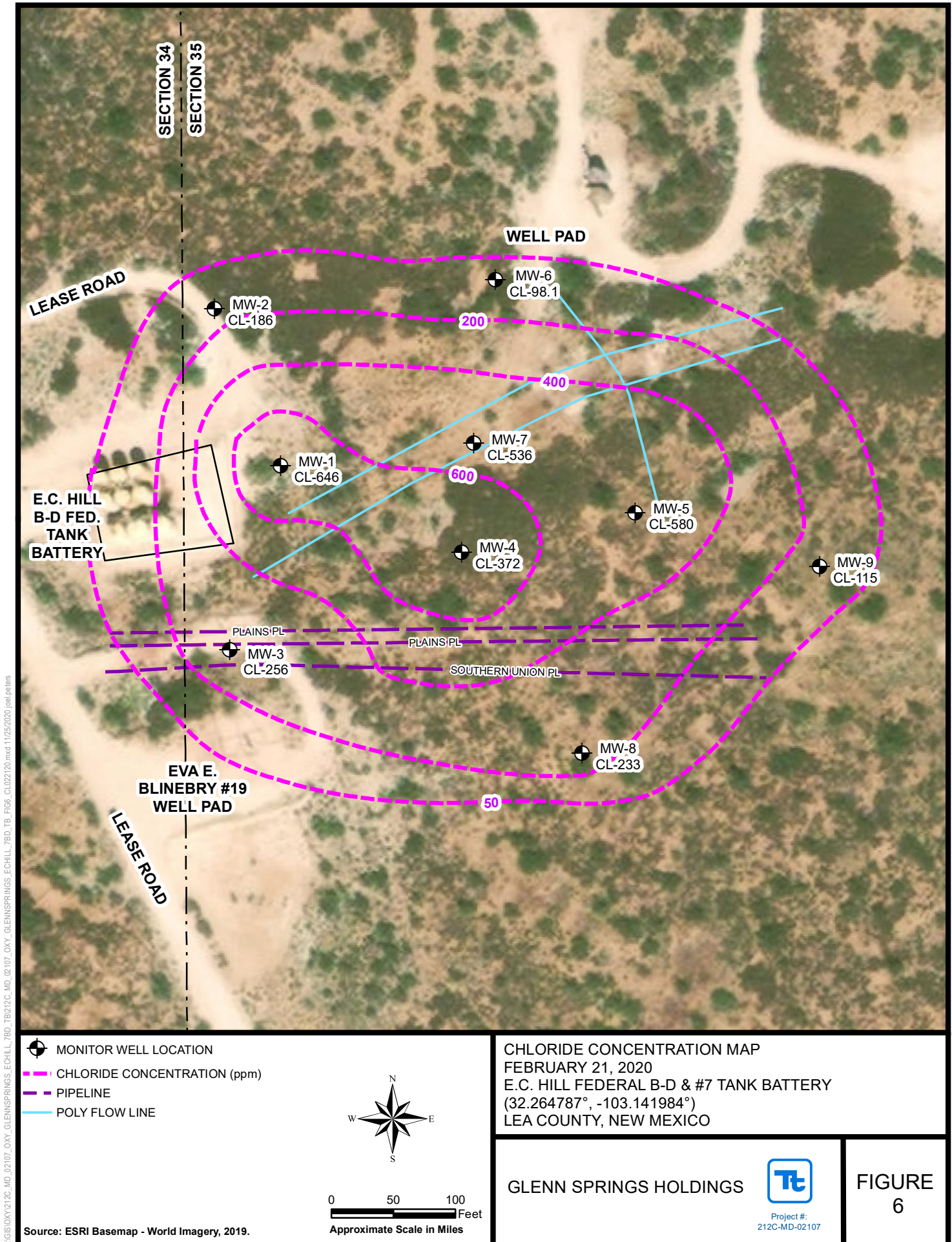
GROUND WATER GRADIENT MAP
AUGUST 13, 2020
E.C. HILL FEDERAL B-D #7 TB
LEA COUNTY, NEW MEXICO

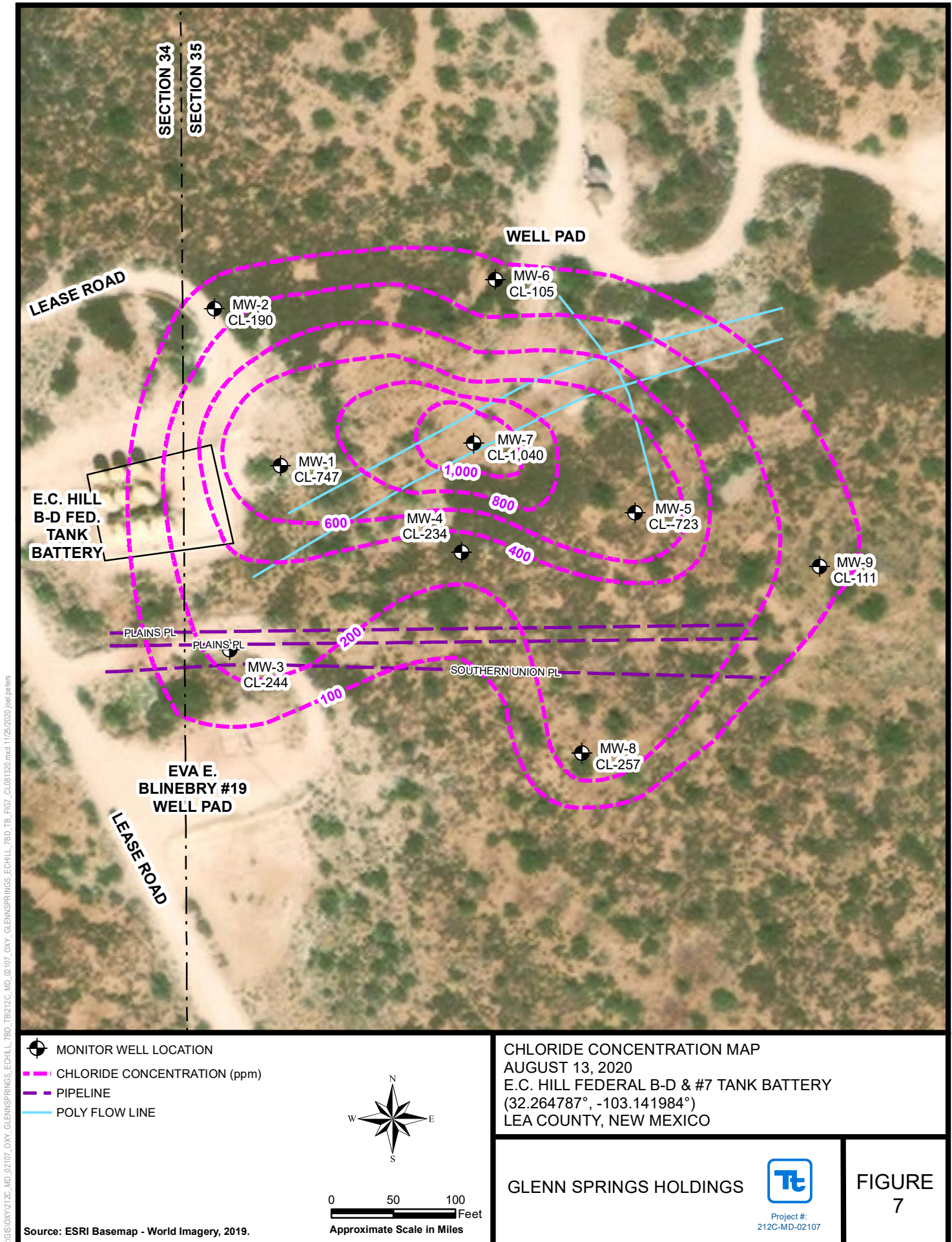
Project: 212C-MD-02107

Date: May 7, 2020

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REV.





Tables

Table 1
 OXY USA, Inc.
 E.C. Hill B-D & Federal #7 TB
 Summary of Groundwater Elevations and PSH Thickness
 Lea County, New Mexico

Well/ Borehole ID	Date Measurement	Top of Casing Elevation, feet AMSL	Total Well Depth (in ft)	Product (ft) (TOC)	Water level (ft) (TOC)	PSH Thickness (ft)	Groundwater Elevation (ft)
MW-1	10/22/08	3257.81	93.00	--	78.82	--	3178.99
	12/11/08			--	78.39	--	3179.42
	03/11/09			--	78.83	--	3178.98
	06/10/09			--	78.78	--	3179.03
	09/15/09			--	78.82	--	3178.99
	12/07/09			--	78.80	--	3179.01
	03/10/10			--	78.83	--	3178.98
	06/07/10			--	78.78	--	3179.03
	09/13/10			--	79.75	--	3178.06
	12/13/10			--	78.97	--	3178.84
	03/10/11			--	78.97	--	3178.84
	06/13/11			--	79.03	--	3178.78
	09/19/11			--	79.06	--	3178.75
	12/17/11			--	79.13	--	3178.68
	04/05/12			--	79.06	--	3178.75
	06/19/12			--	79.09	--	3178.72
	09/25/12			--	79.09	--	3178.72
	11/26/12			--	79.12	--	3178.69
	12/14/12			--	79.12	--	3178.69
	03/28/13		92.87	--	79.10	--	3178.71
	06/06/13			--	79.20	--	3178.61
	09/19/13			--	79.20	--	3178.61
	12/26/13		92.87	--	79.22	--	3178.59
	03/26/14		90.80	--	79.20	--	3178.61
	06/17/14		90.80	--	79.20	--	3178.61
	09/26/14		90.55	--	79.26	--	3178.55
	12/15/14		90.55	--	79.28	--	3178.53
	03/25/15		90.55	--	79.20	--	3178.61
	06/17/15		90.25	--	79.11	--	3178.70
	09/09/15		90.25	--	79.09	--	3178.72
	12/18/15		89.46	--	79.05	--	3178.76
	03/14/16		--	--	78.99	--	3178.82
	06/28/16		--	--	79.04	--	3178.77
	09/07/16		--	--	79.05	--	3178.76
	12/06/16		--	--	79.11	--	3178.70
	03/01/17		90.02	--	79.03	--	3178.78
	08/29/17		90.02	--	79.03	--	3178.78
	02/20/18		89.96	--	78.95	--	3178.86
	09/11/18		--	--	79.00	--	3178.81
	02/07/19		88.93	--	78.89	--	3178.92
	08/09/19		81.15	--	78.93	--	3178.88
	02/20/20		81.15	--	78.91	--	3178.90
	08/13/20		81.15	--	79.00	--	3178.81

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 212C-MD-02107

Table 1
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 E.C. Hill B-D & Federal #7 TB
 Summary of Groundwater Elevations and PSH Thickness
 Lea County, New Mexico

Well/ Borehole ID	Date Measurement	Top of Casing Elevation, feet AMSL	Total Well Depth (in ft)	Product (ft) (TOC)	Water level (ft) (TOC)	PSH Thickness (ft)	Groundwater Elevation (ft)
MW-2	10/23/08	3258.87	91.30	--	79.39	--	3179.48
	12/12/08			--	79.33	--	3179.54
	03/11/09			--	79.36	--	3179.51
	06/10/09			--	79.33	--	3179.54
	09/15/09			--	79.39	--	3179.48
	12/07/09			--	79.35	--	3179.52
	03/10/10			--	79.41	--	3179.46
	06/07/10			--	79.41	--	3179.46
	09/13/10			--	80.30	--	3178.57
	12/13/10			--	79.54	--	3179.33
	03/10/11			--	79.57	--	3179.30
	06/13/11			--	79.60	--	3179.27
	09/19/11			--	79.60	--	3179.27
	12/17/11			--	79.70	--	3179.17
	04/05/12			--	79.59	--	3179.28
	06/19/12			--	79.66	--	3179.21
	09/25/12			--	79.65	--	3179.22
	11/26/12			--	79.70	--	3179.17
	12/14/12	91.30	--	79.69	--	3179.18	
	03/28/13	86.74	--	79.71	--	3179.16	
	06/06/13	--	79.75	--	3179.12		
	09/19/13	--	79.28	--	3179.59		
	12/26/13	86.74	--	79.81	--	3179.06	
	03/26/14	84.69	--	79.75	--	3179.12	
	06/17/14	84.69	--	79.76	--	3179.11	
	09/26/14	84.49	--	79.81	--	3179.06	
	12/15/14	84.49	--	79.83	--	3179.04	
	03/25/15	84.49	--	79.76	--	3179.11	
	06/17/15	84.49	--	79.69	--	3179.18	
	09/09/15	84.49	--	79.64	--	3179.23	
	12/18/15	84.22	--	79.61	--	3179.26	
	03/14/16	84.22	-	79.57	--	3179.30	
	06/28/16	--	--	79.56	--	3179.31	
	09/07/16	--	--	79.60	--	3179.27	
	12/06/16	--	--	79.64	--	3179.23	
	03/01/17	83.89	--	79.69	--	3179.18	
	08/29/17	83.89	--	79.81	--	3179.06	
	02/20/18	83.97	--	79.52	--	3179.35	
	09/11/18	--	--	79.56	--	3179.31	
	02/07/19	83.82	--	79.47	--	3179.40	
	08/09/19	83.85	--	79.51	--	3179.36	
	02/20/20	83.85	--	79.49	--	3179.38	
	08/13/20	83.85	--	79.50	--	3179.37	

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MW-3	10/23/08	3259.24	92.75	--	79.42	--	3179.82
	12/12/08			--	80.38	--	3178.86
	03/11/09			--	80.40	--	3178.84
	06/10/09			--	80.36	--	3178.88
	09/15/09			--	80.42	--	3178.82
	12/07/09			--	80.40	--	3178.84
	03/10/10			--	80.43	--	3178.81
	06/07/10			--	80.44	--	3178.80
	09/13/10			--	81.34	--	3177.90
	12/13/10			--	80.58	--	3178.66
	03/10/11			--	80.58	--	3178.66
	06/13/11			--	80.62	--	3178.62
	09/19/11			--	80.65	--	3178.59
	12/17/11			--	80.75	--	3178.49
	04/05/12			--	80.63	--	3178.61
	06/19/12			--	80.66	--	3178.58
	09/25/12			--	80.70	--	3178.54
	11/26/12			--	80.75	--	3178.49
	12/14/12			--	80.81	--	3178.43
	03/28/13		86.62	--	80.72	--	3178.52
	06/06/13		86.62	--	80.77	--	3178.47
	09/19/13			--	80.79	--	3178.45
	12/26/13			--	80.85	--	3178.39
	03/26/14			--	80.81	--	3178.43
	06/17/14			--	80.79	--	3178.45
	09/26/14			--	80.87	--	3178.37
	12/15/14			--	80.90	--	3178.34
	03/25/15			--	80.84	--	3178.40
	06/17/15			--	80.79	--	3178.45
	09/09/15			--	80.70	--	3178.54
	12/18/15		--	--	80.70	--	3178.54
	03/14/16		--	--	80.64	--	3178.60
	06/28/16		--	--	80.56	--	3178.68
	09/07/16		--	--	80.59	--	3178.65
	12/06/16		--	--	80.71	--	3178.53
	03/01/17		83.75	--	80.66	--	3178.58
	08/29/17		83.75	--	80.64	--	3178.60
	02/20/18		83.78	--	80.57	--	3178.67
	09/11/18		--	--	80.59	--	3178.65
	02/07/19		83.80	--	80.50	--	3178.74
	08/09/19		84.00	--	80.52	--	3178.72
	02/20/20		84.00	--	80.51	--	3178.73
	08/13/20		84.00	--	80.58	--	3178.66

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 Lea County, New Mexico

Well/ Borehole ID	Date Measurement	Top of Casing Elevation, feet AMSL	Total Well Depth (in ft)	Product (ft) (TOC)	Water level (ft) (TOC)	PSH Thickness (ft)	Groundwater Elevation (ft)
MW-4	10/23/08	3258.53	91.00	--	80.03	--	3178.50
	12/12/08			--	80.00	--	3178.53
	03/11/09			--	80.02	--	3178.51
	06/10/09			--	79.99	--	3178.54
	09/15/09			--	80.04	--	3178.49
	12/07/09			--	80.04	--	3178.49
	03/10/10			--	80.06	--	3178.47
	06/07/10			--	80.03	--	3178.50
	09/13/10			--	80.95	--	3177.58
	12/13/10			--	80.19	--	3178.34
	03/10/11			--	80.20	--	3178.33
	06/13/11			--	80.23	--	3178.30
	09/19/11			--	80.25	--	3178.28
	12/17/11			--	80.35	--	3178.18
	04/05/12			--	80.24	--	3178.29
	06/19/12			--	80.40	--	3178.13
	09/25/12			--	80.34	--	3178.19
	11/26/12			--	80.49	--	3178.04
	12/14/12	88.27	--	80.34	--	3178.19	
	03/28/13	89.81	--	80.34	--	3178.19	
	06/06/13		--	80.40	--	3178.13	
	09/19/13	89.25	--	80.42	--	3178.11	
	12/26/13	89.81	--	80.46	--	3178.07	
	03/26/14	87.92	--	80.42	--	3178.11	
	06/17/14	87.92	--	80.42	--	3178.11	
	09/26/14	87.93	--	80.49	--	3178.04	
	12/15/14	87.93	--	80.54	--	3177.99	
	03/25/15	87.93	--	80.42	--	3178.11	
	06/17/15	87.83	--	80.37	--	3178.16	
	09/09/15	87.83	--	80.33	--	3178.20	
	12/18/15	87.74	--	80.28	--	3178.25	
	03/14/16	--	--	80.21	--	3178.32	
	06/28/16	--	--	80.25	--	3178.28	
	09/07/16	--	--	80.25	--	3178.28	
	12/06/16	--	--	80.24	--	3178.29	
	03/01/17	87.65	--	80.29	--	3178.24	
	08/29/17	87.65	--	80.23	--	3178.30	
	02/20/18	87.76	--	80.17	--	3178.36	
	09/11/18	--	--	80.16	--	3178.37	
	02/07/19	87.82	--	80.10	--	3178.43	
	08/09/19	87.85	--	80.13	--	3178.40	
	02/21/20	87.85	--	80.10	--	3178.43	
	08/13/20	87.85	--	80.20	--	3178.33	

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Table 1
 OXY USA, Inc.
 E.C. Hill B-D & Federal #7 TB
 Summary of Groundwater Elevations and PSH Thickness
 Lea County, New Mexico

Well/ Borehole ID	Date Measurement	Top of Casing Elevation, feet AMSL	Total Well Depth (in ft)	Product (ft) (TOC)	Water level (ft) (TOC)	PSH Thickness (ft)	Groundwater Elevation (ft)
MW-5	10/23/08	3255.69	92.50	--	77.45	--	3178.24
	12/12/08			--	77.41	--	3178.28
	03/11/09			--	77.43	--	3178.26
	06/10/09			--	77.40	--	3178.29
	09/15/09			--	77.46	--	3178.23
	12/07/09			--	77.45	--	3178.24
	03/10/10			--	77.45	--	3178.24
	06/07/10			--	77.43	--	3178.26
	09/13/10			--	78.35	--	3177.34
	12/13/10			--	77.59	--	3178.10
	03/10/11			--	77.60	--	3178.09
	06/13/11			--	77.64	--	3178.05
	09/19/11			--	77.65	--	3178.04
	12/17/11			--	77.78	--	3177.91
	04/05/12			--	77.67	--	3178.02
	06/19/12			--	77.71	--	3177.98
	09/25/12			--	77.73	--	3177.96
	11/26/12			--	77.79	--	3177.90
	12/14/12			--	77.74	--	3177.95
	03/28/13		90.54	--	77.76	--	3177.93
	06/06/13			--	77.83	--	3177.86
	09/19/13			--	77.82	--	3177.87
	12/26/13		90.54	--	77.87	--	3177.82
	03/26/14		87.65	--	77.84	--	3177.85
	06/17/14		87.65	--	77.83	--	3177.86
	09/26/14		87.58	--	77.90	--	3177.79
	12/15/14		87.58	--	77.96	--	3177.73
	03/25/15		87.58	--	77.87	--	3177.82
	06/17/15		87.40	--	77.81	--	3177.88
	09/09/15		87.40	--	77.76	--	3177.93
	12/18/15		87.35	--	77.71	--	3177.98
	03/14/16		--	--	77.69	--	3178.00
	06/28/16		--	--	77.67	--	3178.02
	09/07/16		--	--	77.64	--	3178.05
	12/06/16		--	--	77.89	--	3177.80
	03/01/17		87.28	--	77.67	--	3178.02
	08/29/17		87.28	--	77.65	--	3178.04
	02/20/18		87.28	--	77.57	--	3178.12
	09/11/18		--	--	77.85	--	3177.84
	02/07/19		85.25	--	77.50	--	3178.19
	08/09/19		87.35	--	77.56	--	3178.13
	02/21/20		87.35	--	77.47	--	3178.22
	08/13/20		87.35	--	77.60	--	3178.09

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 Summary of Groundwater Elevations and PSH Thickness
 Lea County, New Mexico

Well/ Borehole ID	Date Measurement	Top of Casing Elevation, feet AMSL	Total Well Depth (in ft)	Product (ft) (TOC)	Water level (ft) (TOC)	PSH Thickness (ft)	Groundwater Elevation (ft)
MW-6	10/23/08	3257.98	93.00	--	79.03	--	3178.95
	12/12/08			--	78.97	--	3179.01
	03/11/09			--	79.03	--	3178.95
	06/10/09			--	79.00	--	3178.98
	09/15/09			--	79.04	--	3178.94
	12/07/09			--	79.03	--	3178.95
	03/10/10			--	79.06	--	3178.92
	06/07/10			--	79.05	--	3178.93
	09/13/10			--	79.97	--	3178.01
	12/13/10			--	79.19	--	3178.79
	03/10/11			--	79.21	--	3178.77
	06/13/11			--	79.24	--	3178.74
	09/19/11			--	79.18	--	3178.80
	12/17/11			--	79.34	--	3178.64
	04/05/12			--	79.24	--	3178.74
	06/19/12			--	79.31	--	3178.67
	09/25/12			--	79.35	--	3178.63
	11/26/12			--	79.37	--	3178.61
	12/14/12			--	79.35	--	3178.63
	03/28/13		88.27	--	79.36	--	3178.62
	06/06/13		88.27	--	79.41	--	3178.57
	09/19/13			--	79.38	--	3178.60
	12/26/13		88.27	--	79.46	--	3178.52
	03/26/14		83.71	--	79.43	--	3178.55
	06/17/14		83.71	--	79.40	--	3178.58
	09/26/14		83.45	--	79.49	--	3178.49
	12/15/14		83.45	--	79.52	--	3178.46
	03/25/15		-	--	79.47	--	3178.51
	06/17/15		83.69	--	79.36	--	3178.62
	09/09/15		83.69	--	79.29	--	3178.69
	12/18/15		83.64	--	79.25	--	3178.73
	03/14/16		--	--	79.21	--	3178.77
	06/28/16		--	--	79.23	--	3178.75
	09/07/16		--	--	79.27	--	3178.71
	12/06/16		--	--	79.22	--	3178.76
	03/01/17		83.40	--	79.29	--	3178.69
	08/29/17		83.40	--	79.25	--	3178.73
	02/20/18		83.35	--	79.07	--	3178.91
	09/11/18		--	--	79.21	--	3178.77
	02/07/19		83.60	--	79.10	--	3178.88
	08/09/19		83.60	--	79.14	--	3178.84
	02/21/20		83.60	--	79.06	--	3178.92
	08/13/20		83.60	--	79.20	--	3178.78

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Table 1
 OXY USA, Inc.
 E.C. Hill B-D & Federal #7 TB
 Summary of Groundwater Elevations and PSH Thickness
 Lea County, New Mexico

Well/ Borehole ID	Date Measurement	Top of Casing Elevation, feet AMSL	Total Well Depth (in ft)	Product (ft) (TOC)	Water level (ft) (TOC)	PSH Thickness (ft)	Groundwater Elevation (ft)
MW-7	10/23/08	3256.95	93.00	--	78.28	--	3178.67
	12/12/08			--	78.24	--	3178.71
	03/11/09			--	78.27	--	3178.68
	06/10/09			--	78.23	--	3178.72
	09/15/09			--	78.29	--	3178.66
	12/07/09			--	78.27	--	3178.68
	03/10/10			--	78.29	--	3178.66
	06/07/10			--	78.29	--	3178.66
	09/13/10			--	79.20	--	3177.75
	12/13/10			--	78.42	--	3178.53
	03/10/11			--	78.42	--	3178.53
	06/13/11			--	78.45	--	3178.50
	09/19/11			--	78.49	--	3178.46
	12/17/11			--	78.60	--	3178.35
	04/05/12			--	78.48	--	3178.47
	06/19/12			--	78.52	--	3178.43
	09/25/12			--	78.59	--	3178.36
	11/26/12			--	78.62	--	3178.33
	12/14/12			--	78.54	--	3178.41
	03/28/13		94.06	--	78.56	--	3178.39
	06/06/13			--	78.67	--	3178.28
	09/19/13			--	78.65	--	3178.30
	12/26/13		94.06	--	78.69	--	3178.26
	03/26/14		91.90	--	78.66	--	3178.29
	06/17/14		91.90	--	78.65	--	3178.30
	09/26/14		91.90	--	78.73	--	3178.22
	12/15/14		91.71	--	78.76	--	3178.19
	03/25/15		91.70	--	78.68	--	3178.27
	06/17/15		91.58	--	78.55	--	3178.40
	09/09/15		91.58	--	78.50	--	3178.45
	12/18/15		91.12	--	78.52	--	3178.43
	03/14/16		--	--	78.46	--	3178.49
	06/28/16		--	--	78.49	--	3178.46
	09/07/16		--	--	78.46	--	3178.49
	12/06/16		--	--	78.52	--	3178.43
	03/01/17		89.77	--	78.50	--	3178.45
	08/29/17		89.77	--	78.50	--	3178.45
	02/20/18		91.95	--	78.41	--	3178.54
	09/11/18		--	--	78.28	--	3178.67
	02/07/19		91.00	--	78.36	--	3178.59
	08/09/19		91.00	--	78.40	--	3178.55
	02/21/20		91.00	--	78.36	--	3178.59
	08/13/20		91.00	--	78.45	--	3178.50

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Table 1
 OXY USA, Inc.
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 Summary of Groundwater Elevations and PSH Thickness
 Lea County, New Mexico

Well/ Borehole ID	Date Measurement	Top of Casing Elevation, feet AMSL	Total Well Depth (in ft)	Product (ft) (TOC)	Water level (ft) (TOC)	PSH Thickness (ft)	Groundwater Elevation (ft)
MW-8	11/16/12	3257.16		--	79.62	--	3177.54
	11/26/12			--	79.59	--	3177.57
	12/14/12		94.82	--	79.56	--	3177.60
	03/28/13		94.93	--	79.59	--	3177.57
	06/06/13			--	79.65	--	3177.51
	09/19/13			--	79.60	--	3177.56
	12/26/13		94.93	--	79.68	--	3177.48
	03/26/14		88.33	--	79.66	--	3177.50
	06/17/14		88.33	--	79.64	--	3177.52
	09/26/14		88.33	--	79.68	--	3177.48
	12/15/14		86.94	--	79.76	--	3177.40
	03/25/15		86.93	--	79.68	--	3177.48
	06/17/15		86.64	--	79.64	--	3177.52
	09/09/15		86.64	--	79.58	--	3177.58
	12/18/15		86.59	--	79.52	--	3177.64
	03/14/16		--	--	79.50	--	3177.66
	06/28/16		--	--	79.49	--	3177.67
	09/07/16		--	--	79.45	--	3177.71
	12/06/16		--	--	79.52	--	3177.64
	03/01/17		85.77	--	79.49	--	3177.67
	08/29/17		85.77	--	79.49	--	3177.67
	02/20/18		85.83	--	79.38	--	3177.78
	09/11/18		--	--	79.43	--	3177.73
	09/11/18		85.85	--	79.30	--	3177.86
	08/09/19		85.70	--	79.37	--	3177.79
	02/21/20		85.70	--	79.29	--	3177.87
	08/13/20		85.70	--	79.43	--	3177.73

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Table 1
 OXY USA, Inc.
 E.C. Hill B-D & Federal #7 TB
 Summary of Groundwater Elevations and PSH Thickness
 Lea County, New Mexico

Well/ Borehole ID	Date Measurement	Top of Casing Elevation, feet AMSL	Total Well Depth (in ft)	Product (ft) (TOC)	Water level (ft) (TOC)	PSH Thickness (ft)	Groundwater Elevation (ft)
MW-9	11/16/12	3255.33		--	77.98	--	3177.35
	11/26/12			--	77.94	--	3177.39
	12/14/12		94.75	--	77.92	--	3177.41
	03/28/13		96.34	--	77.91	--	3177.42
	06/06/13			--	78.00	--	3177.33
	09/19/13			--	78.00	--	3177.33
	12/26/13		96.34	--	78.05	--	3177.28
	03/26/14		93.22	--	78.00	--	3177.33
	06/17/14		93.22	--	77.96	--	3177.37
	09/26/14		93.22	--	78.06	--	3177.27
	12/15/14		92.85	--	78.09	--	3177.24
	03/25/15		92.83	--	78.01	--	3177.32
	06/17/15		92.60	--	77.93	--	3177.40
	09/09/15		92.60	--	77.93	--	3177.40
	12/18/15		92.50	--	77.88	--	3177.45
	03/14/16		--	--	77.80	--	3177.53
	06/28/16		--	--	77.83	--	3177.50
	09/07/16		--	--	77.85	--	3177.48
	12/06/16		--	--	77.85	--	3177.48
	03/01/17		92.45	--	77.84	--	3177.49
	08/29/17		92.45	--	77.79	--	3177.54
	02/20/18		92.51	--	77.74	--	3177.59
	09/11/18		--	--	77.71	--	3177.62
	02/07/19		92.27	--	77.64	--	3177.69
	08/09/19		92.40	--	77.68	--	3177.65
	02/21/20		92.40	--	77.74	--	3177.59
	08/13/20		92.40	--	77.75	--	3177.58

(-) No data (TOC) Top of casing

Table 2
OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethyl-benzene (mg/l)	Xylene (mg/l)	Total BTEX (mg/l)	Chloride (mg/l)
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration		0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L *
MW-1	09/22/06	<0.001	<0.001	<0.001	<0.001	<0.001	1,150
	05/16/07	<0.001	<0.001	<0.001	<0.001	<0.001	729
	10/22/08	<0.001	<0.001	<0.001	<0.001	<0.001	1060
	12/10/08	<0.005	<0.005	<0.005	<0.015	<0.015	373
	03/11/09	<0.001	<0.001	<0.001	<0.003	<0.003	922
	06/10/09	<0.001	<0.001	<0.001	<0.003	<0.003	610
DUP	06/10/09	<0.001	<0.001	<0.001	<0.003	<0.003	525
	09/15/09	<0.001	<0.001	<0.001	<0.003	<0.003	456
DUP	09/15/09	<0.001	<0.001	<0.001	<0.003	<0.003	449
	12/07/09	<0.001	<0.001	<0.001	<0.003	<0.003	120
	03/10/10	<0.001	<0.001	<0.001	<0.003	<0.003	91.4
	06/07/10	<0.001	<0.001	<0.001	<0.003	<0.003	98.3
	09/13/10	<0.001	<0.001	<0.001	<0.003	<0.003	174
	12/13/10	<0.001	<0.001	<0.001	<0.003	<0.003	302
	03/10/11	<0.001	<0.001	<0.001	<0.003	<0.003	118
	06/13/11	<0.00014	<0.0002	<0.0003	<0.00023	<0.0003	390
	09/19/11	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	120
	12/13/11	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	100
	04/06/12	<0.005	<0.005	<0.005	<0.015	<0.015	202
	06/19/12	<0.005	<0.005	<0.005	<0.015	<0.015	167
	09/25/12	<0.005	<0.005	<0.005	<0.015	<0.015	300
	12/14/12	<0.005	<0.005	<0.005	<0.015	<0.015	525
	03/28/13	<0.005	<0.005	<0.005	<0.015	<0.015	659
	06/06/13	<0.005	<0.005	<0.005	<0.015	<0.015	348
	09/19/13	<0.005	<0.005	<0.005	<0.015	<0.015	341
	12/27/13	<0.005	<0.005	<0.005	<0.015	<0.015	193
	03/27/14	<0.005	<0.005	<0.005	<0.015	<0.015	346

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Table 2
OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethyl-benzene (mg/l)	Xylene (mg/l)	Total BTEX (mg/l)	Chloride (mg/l)
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration		0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L*
MW-1 Cont.	06/19/14	<0.005	<0.005	<0.005	<0.015	<0.015	152
	09/30/14	<0.005	<0.005	<0.005	<0.015	<0.015	118
	12/16/14	<0.005	<0.005	<0.005	<0.015	<0.015	150
	03/25/15	<0.005	<0.005	<0.005	<0.015	<0.015	177
	06/17/15	<0.005	<0.005	<0.005	<0.015	<0.015	220
	09/09/15	<0.005	<0.005	<0.005	<0.015	<0.015	230
	12/18/15	<0.005	<0.005	<0.005	<0.015	<0.015	374
	03/15/16	<0.005	<0.005	<0.005	<0.015	<0.015	210
	06/29/16	<0.005	<0.005	<0.005	<0.015	<0.015	172
	09/08/16	<0.005	<0.005	<0.005	<0.015	<0.015	198
	12/06/16	<0.005	<0.005	<0.005	<0.005	<0.005	256
	03/02/17	<0.005	<0.005	<0.005	<0.005	<0.005	148
	08/30/17	<0.005	<0.005	<0.005	<0.005	<0.005	383
	02/22/18	<0.005	<0.005	<0.005	<0.005	<0.005	407
	09/12/18	<0.005	<0.005	<0.005	<0.005	<0.005	209
	02/07/19	<0.005	<0.005	<0.005	<0.005	<0.005	632
	08/09/19	<0.005	<0.005	<0.005	<0.005	<0.005	736
	02/20/20	<0.006	<0.005	<0.005	<0.005	<0.006	646
	08/13/20	<0.006	<0.005	<0.005	<0.005	<0.006	747
MW-2	10/22/08	<0.001	<0.001	<0.001	<0.001	<0.001	132
	12/10/08	<0.005	<0.005	<0.005	<0.015	<0.015	349
	03/11/09	<0.001	<0.001	<0.001	<0.003	<0.003	140
	06/10/09	<0.001	<0.001	<0.001	<0.003	<0.003	134
	09/15/09	<0.001	<0.001	<0.001	<0.003	<0.003	92.1
	12/07/09	<0.001	<0.001	<0.001	<0.003	<0.003	142
	03/10/10	<0.001	<0.001	<0.001	<0.003	<0.003	137
	06/07/10	<0.001	<0.001	<0.001	<0.003	<0.003	140

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Table 2
OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethyl-benzene (mg/l)	Xylene (mg/l)	Total BTEX (mg/l)	Chloride (mg/l)
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration		0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L*
MW-2 Cont.	09/13/10	<0.001	<0.001	<0.001	<0.003	<0.003	145
	12/13/10	<0.001	<0.001	<0.001	<0.003	<0.003	142
	03/10/11	<0.001	<0.001	<0.001	<0.003	<0.003	143
	06/13/11	<0.00014	<0.0002	<0.0003	<0.00023	<0.0003	160
	09/19/11	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	160
	12/13/11	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	250
	04/06/12	<0.005	<0.005	<0.005	<0.015	<0.015	168
	06/19/12	<0.005	<0.005	<0.005	<0.015	<0.015	172
	09/25/12	<0.005	<0.005	<0.005	<0.015	<0.015	178
	12/14/12	<0.005	<0.005	<0.005	<0.015	<0.015	162
	03/28/13	<0.005	<0.005	<0.005	<0.015	<0.015	183
	06/06/13	<0.005	<0.005	<0.005	<0.015	<0.015	185
	09/19/13	<0.005	<0.005	<0.005	<0.015	<0.015	211
	12/27/13	<0.005	<0.005	<0.005	<0.015	<0.015	184
	03/27/14	<0.005	<0.005	<0.005	<0.015	<0.015	194
	06/19/14	<0.005	<0.005	<0.005	<0.015	<0.015	209
	09/30/14	<0.005	<0.005	<0.005	<0.015	<0.015	175
	12/16/14	<0.005	<0.005	<0.005	<0.015	<0.015	153
	03/25/15	<0.005	<0.005	<0.005	<0.015	<0.015	154
	06/17/15	<0.005	<0.005	<0.005	<0.015	<0.015	155
	09/09/15	<0.005	<0.005	<0.005	<0.015	<0.015	28
	12/18/15	<0.005	<0.005	<0.005	<0.015	<0.015	162
	03/15/16	<0.005	<0.005	<0.005	<0.015	<0.015	154
	06/29/16	<0.005	<0.005	<0.005	<0.015	<0.015	152
	09/08/16	<0.005	<0.005	<0.005	<0.015	<0.015	154
	12/06/16	<0.005	<0.005	<0.005	<0.005	<0.005	173
	03/02/17	<0.005	<0.005	<0.005	<0.005	<0.005	150

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Table 2
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Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethyl-benzene (mg/l)	Xylene (mg/l)	Total BTEX (mg/l)	Chloride (mg/l)
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration		0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L*
	08/30/17	<0.005	<0.005	<0.005	<0.005	<0.005	165
	02/22/18	<0.005	<0.005	<0.005	<0.005	<0.005	171
	09/11/18	<0.005	<0.005	<0.005	<0.005	<0.005	178
	02/19/19	<0.005	<0.005	<0.005	<0.005	<0.005	174
	08/09/19	<0.005	<0.005	<0.005	<0.005	<0.005	186
	02/20/20	<0.006	<0.005	<0.005	<0.005	<0.006	186
	08/13/20	<0.006	<0.005	<0.005	<0.005	<0.006	190
MW-3	10/22/08	<0.001	<0.001	<0.001	<0.001	<0.001	237
	12/10/08	<0.005	<0.005	<0.005	<0.015	<0.015	207
	03/11/09	<0.001	0.00052	<0.001	<0.003	<0.003	229
	06/10/09	<0.001	<0.001	<0.001	<0.003	<0.003	243
	09/15/09	<0.001	<0.001	<0.001	<0.003	<0.003	243
	12/07/09	<0.001	<0.001	<0.001	<0.003	<0.003	265
	03/10/10	<0.001	<0.001	<0.001	<0.003	<0.003	282
	06/07/10	<0.001	<0.001	<0.001	<0.003	<0.003	334
	09/13/10	<0.001	<0.001	<0.001	<0.003	<0.003	359
	12/13/10	<0.001	<0.001	<0.001	<0.003	<0.003	375
	03/10/11	<0.001	<0.001	<0.001	<0.003	<0.003	364
	06/13/11	<0.00014	<0.0002	<0.0003	<0.00023	<0.0003	370
	09/19/11	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	350
	12/13/11	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	370
	04/06/12	<0.005	<0.005	<0.005	<0.015	<0.015	381
	06/19/12	<0.005	<0.005	<0.005	<0.015	<0.015	371
	09/25/12	<0.005	<0.005	<0.005	<0.015	<0.015	384
	12/14/12	<0.005	<0.005	<0.005	<0.015	<0.015	332
	03/28/13	<0.005	<0.005	<0.005	<0.015	<0.015	362
	06/06/13	<0.005	<0.005	<0.005	<0.015	<0.015	326

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Table 2
OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethyl-benzene (mg/l)	Xylene (mg/l)	Total BTEX (mg/l)	Chloride (mg/l)
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration		0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L*
MW-3 Cont.	09/19/13	<0.005	<0.005	<0.005	<0.015	<0.015	325
	12/27/13	<0.005	<0.005	<0.005	<0.015	<0.015	250
	03/27/14	<0.005	<0.005	<0.005	<0.015	<0.015	281
	06/19/14	<0.005	<0.005	<0.005	<0.015	<0.015	324
	09/30/14	<0.005	<0.005	<0.005	<0.015	<0.015	293
	12/16/14	<0.005	<0.005	<0.005	<0.015	<0.015	256
	03/25/15	<0.005	<0.005	<0.005	<0.015	<0.015	283
	06/17/15	<0.005	<0.005	<0.005	<0.015	<0.015	270
	09/09/15	<0.005	<0.005	<0.005	<0.015	<0.015	145
	12/18/15	<0.005	<0.005	<0.005	<0.015	<0.015	221
	03/15/16	<0.005	<0.005	<0.005	<0.015	<0.015	225
	06/29/16	<0.005	<0.005	<0.005	<0.015	<0.015	208
	09/08/16	<0.005	<0.005	<0.005	<0.015	<0.015	216
	12/06/16	<0.005	<0.005	<0.005	<0.005	<0.005	263
	03/02/17	<0.005	<0.005	<0.005	<0.005	<0.005	286
	08/30/17	<0.005	<0.005	<0.005	<0.005	<0.005	278
	02/22/18	<0.005	<0.005	<0.005	<0.005	<0.005	302
	09/12/18	<0.005	<0.005	<0.005	<0.005	<0.005	293
	02/07/19	<0.005	<0.005	<0.005	<0.005	<0.005	248
	08/09/19	<0.005	<0.005	<0.005	<0.005	<0.005	251
	02/20/20	<0.006	<0.005	<0.005	<0.005	<0.006	255
	08/13/20	<0.006	<0.005	<0.005	<0.005	<0.006	244
MW-4	10/22/08	<0.001	<0.001	<0.001	<0.001	<0.001	556
	12/10/08	<0.005	<0.005	<0.005	<0.015	<0.015	642
	03/11/09	<0.001	<0.001	<0.001	<0.003	<0.003	573
	06/10/09	<0.001	<0.001	<0.001	<0.003	<0.003	645
	09/15/09	<0.001	<0.001	<0.001	<0.003	<0.003	689

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Table 2
OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethyl-benzene (mg/l)	Xylene (mg/l)	Total BTEX (mg/l)	Chloride (mg/l)
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration		0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L *
MW-4 Cont.	12/07/09	<0.001	<0.001	<0.001	<0.003	<0.003	778
	03/10/10	<0.001	<0.001	<0.001	<0.003	<0.003	543
	06/07/10	<0.001	<0.001	<0.001	<0.003	<0.003	637
	09/13/10	<0.001	<0.001	<0.001	<0.003	<0.003	578
	12/13/10	<0.001	<0.001	<0.001	<0.003	<0.003	368
	03/10/11	<0.001	<0.001	<0.001	<0.003	<0.003	289
	06/13/11	<0.00014	<0.0002	<0.0003	<0.00023	<0.0003	320
	09/19/11	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	570
	12/13/11	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	510
	04/06/12	<0.005	<0.005	<0.005	<0.015	<0.015	519
	06/19/12	<0.005	<0.005	<0.005	<0.015	<0.015	555
	09/25/12	<0.005	<0.005	<0.005	<0.015	<0.015	328
	12/14/12	<0.005	<0.005	<0.005	<0.015	<0.015	424
	03/28/13	<0.005	<0.005	<0.005	<0.015	<0.015	558
	06/06/13	<0.005	<0.005	<0.005	<0.015	<0.015	573
	09/19/13	<0.005	<0.005	<0.005	<0.015	<0.015	571
	12/27/13	<0.005	<0.005	<0.005	<0.015	<0.015	403
	03/27/14	<0.005	<0.005	<0.005	<0.015	<0.015	495
	06/19/14	<0.005	<0.005	<0.005	<0.015	<0.015	537
	09/30/14	<0.005	<0.005	<0.005	<0.015	<0.015	434
	12/16/14	<0.005	<0.005	<0.005	<0.015	<0.015	488
	03/25/15	<0.005	<0.005	<0.005	<0.015	<0.015	473
	06/17/15	<0.005	<0.005	<0.005	<0.015	<0.015	412
	09/09/15	<0.005	<0.005	<0.005	<0.015	<0.015	227
	12/18/15	<0.005	<0.005	<0.005	<0.015	<0.015	253
	03/15/16	<0.005	<0.005	<0.005	<0.015	<0.015	295
	06/29/16	<0.005	<0.005	<0.005	<0.015	<0.015	229

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Table 2
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Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethyl-benzene (mg/l)	Xylene (mg/l)	Total BTEX (mg/l)	Chloride (mg/l)
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration		0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L *
MW-4 Cont.	09/08/16	<0.005	<0.005	<0.005	<0.015	<0.015	208
	12/06/16	<0.005	<0.005	<0.005	<0.005	<0.005	304
	03/02/17	<0.005	<0.005	<0.005	<0.005	<0.005	337
	08/30/17	<0.005	<0.005	<0.005	<0.005	<0.005	479
	02/22/18	<0.005	<0.005	<0.005	<0.005	<0.005	494
	09/12/18	<0.005	<0.005	<0.005	<0.005	<0.005	644
	02/07/19	<0.005	<0.005	<0.005	<0.005	<0.005	509
	08/09/19	<0.005	<0.005	<0.005	<0.005	<0.005	400
	02/21/20	<0.006	<0.005	<0.005	<0.005	<0.006	372
	08/13/20	<0.006	<0.005	<0.005	<0.005	<0.006	234
MW-5	10/22/08	<0.001	<0.001	<0.001	<0.001	<0.001	1,040
	12/10/08	<0.005	<0.005	<0.005	<0.015	<0.015	1,020
	03/11/09	<0.001	<0.001	<0.001	<0.003	<0.003	879
	06/10/09	<0.001	<0.001	<0.001	<0.003	<0.003	860
	09/15/09	<0.001	<0.001	<0.001	<0.003	<0.003	925
	12/07/09	<0.001	<0.001	<0.001	<0.003	<0.003	832
	03/10/10	<0.001	<0.001	<0.001	<0.003	<0.003	711
	06/07/10	<0.001	<0.001	<0.001	<0.003	<0.003	807
	09/13/10	<0.001	<0.001	<0.001	<0.003	<0.003	819
	12/13/10	<0.001	<0.001	<0.001	<0.003	<0.003	785
	03/10/11	<0.001	<0.001	<0.001	<0.003	<0.003	504
	06/13/11	<0.00014	<0.0002	<0.0003	<0.00023	<0.0003	400
	09/19/11	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	520
	12/13/11	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	730
	04/06/12	<0.005	<0.005	<0.005	<0.015	<0.015	707
	06/19/12	<0.005	<0.005	<0.005	<0.015	<0.015	842
	09/25/12	<0.005	<0.005	<0.005	<0.015	<0.015	654

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Table 2
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Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethyl-benzene (mg/l)	Xylene (mg/l)	Total BTEX (mg/l)	Chloride (mg/l)
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration		0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L*
MW-5 Cont.	12/14/12	<0.005	<0.005	<0.005	<0.015	<0.015	334
	03/28/13	<0.005	<0.005	<0.005	<0.015	<0.015	320
	06/06/13	<0.005	<0.005	<0.005	<0.015	<0.015	289
	09/19/13	<0.005	<0.005	<0.005	<0.015	<0.015	329
	12/27/13	<0.005	<0.005	<0.005	<0.015	<0.015	396
	03/27/14	<0.005	<0.005	<0.005	<0.015	<0.015	403
	06/19/14	<0.005	<0.005	<0.005	<0.015	<0.015	472
	09/30/14	<0.005	<0.005	<0.005	<0.015	<0.015	449
	12/16/14	<0.005	<0.005	<0.005	<0.015	<0.015	665
	03/25/15	<0.005	<0.005	<0.005	<0.015	<0.015	787
	06/17/15	<0.005	<0.005	<0.005	<0.015	<0.015	567
	09/09/15	<0.005	<0.005	<0.005	<0.015	<0.015	594
	12/18/15	<0.005	<0.005	<0.005	<0.015	<0.015	554
	03/15/16	<0.005	<0.005	<0.005	<0.015	<0.015	597
	06/29/16	<0.005	<0.005	<0.005	<0.015	<0.015	569
	09/08/16	<0.005	<0.005	<0.005	<0.015	<0.015	591
DUP	09/08/16	<0.005	<0.005	<0.005	<0.015	<0.015	772
	12/06/16	<0.005	<0.005	<0.005	<0.005	<0.005	766
	03/02/17	<0.005	<0.005	<0.005	<0.005	<0.005	737
	08/30/17	<0.005	<0.005	<0.005	<0.005	<0.005	750
	02/22/18	<0.005	<0.005	<0.005	<0.005	<0.005	653
	09/12/18	<0.005	<0.005	<0.005	<0.005	<0.005	658
	02/07/19	<0.005	<0.005	<0.005	<0.005	<0.005	667
DUP	02/07/19	<0.005	<0.005	<0.005	<0.015	<0.015	892
	08/09/19	<0.005	<0.005	<0.005	<0.005	<0.005	716
	02/21/20	<0.006	<0.005	<0.005	<0.005	<0.006	580
DUP	02/21/20	<0.006	<0.005	<0.005	<0.005	<0.006	563

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Summary of Analysis of Groundwater Samples
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Sample ID	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethyl-benzene (mg/l)	Xylene (mg/l)	Total BTEX (mg/l)	Chloride (mg/l)
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration		0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L*
MW-5 Cont.	08/13/20	<0.006	<0.005	<0.005	<0.005	<0.006	708
DUP	08/13/20	<0.006	<0.005	<0.005	<0.005	<0.006	723
MW-6	10/22/08	<0.001	<0.001	<0.001	<0.001	<0.001	87.8
	12/10/08	<0.005	<0.005	<0.005	<0.015	<0.015	90.2
	03/11/09	<0.001	<0.001	<0.001	<0.003	<0.003	92.7
	06/10/09	<0.001	<0.001	<0.001	<0.003	<0.003	87.4
	09/15/09	<0.001	<0.001	<0.001	<0.003	<0.003	89.6
	12/07/09	<0.001	<0.001	<0.001	<0.003	<0.003	91.7
	03/10/10	<0.001	<0.001	<0.001	<0.003	<0.003	83.7
	06/07/10	<0.001	<0.001	<0.001	<0.003	<0.003	89.2
	09/13/10	<0.001	<0.001	<0.001	<0.003	<0.003	87.6
	12/13/10	<0.001	<0.001	<0.001	<0.003	<0.003	87.3
	03/10/11	<0.001	<0.001	<0.001	<0.003	<0.003	85.7
	06/13/11	<0.00014	<0.0002	<0.0003	<0.00023	<0.0003	94.0
	09/19/11	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	90
	12/13/11	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	88
	04/06/12	<0.005	<0.005	<0.005	<0.015	<0.015	92.2
	06/19/12	<0.005	<0.005	<0.005	<0.015	<0.015	90.5
	09/25/12	<0.005	<0.005	<0.005	<0.015	<0.015	95.1
	12/14/12	<0.005	<0.005	<0.005	<0.015	<0.015	85.1
	03/28/13	<0.005	<0.005	<0.005	<0.015	<0.015	95.2
	06/06/13	<0.005	<0.005	<0.005	<0.015	<0.015	99.1
	09/19/13	<0.005	<0.005	<0.005	<0.015	<0.015	110
	12/27/13	<0.005	<0.005	<0.005	<0.015	<0.015	91.4
	03/27/14	<0.005	<0.005	<0.005	<0.015	<0.015	103
	06/19/14	<0.005	<0.005	<0.005	<0.015	<0.015	115
	09/30/14	<0.005	<0.005	<0.005	<0.015	<0.015	102

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Table 2
OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethyl-benzene (mg/l)	Xylene (mg/l)	Total BTEX (mg/l)	Chloride (mg/l)
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration		0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L*
MW-6 Cont.	12/16/14	<0.005	<0.005	<0.005	<0.015	<0.015	97.9
	03/25/15	<0.005	<0.005	<0.005	<0.015	<0.015	96.2
	06/17/15	<0.005	<0.005	<0.005	<0.015	<0.015	99.0
	09/09/15	<0.005	<0.005	<0.005	<0.015	<0.015	96.6
	12/18/15	<0.005	<0.005	<0.005	<0.015	<0.015	106
	03/15/16	<0.005	<0.005	<0.005	<0.015	<0.015	99.9
	06/29/16	<0.005	<0.005	<0.005	<0.015	<0.015	95.4
	09/08/16	<0.005	<0.005	<0.005	<0.015	<0.015	94.2
	12/06/16	<0.005	<0.005	<0.005	<0.005	<0.005	100
	03/02/17	<0.005	<0.005	<0.005	<0.005	<0.005	97.5
	08/30/17	<0.005	<0.005	<0.005	<0.005	<0.005	94.2
	02/22/18	<0.005	<0.005	<0.005	<0.005	<0.005	100
	09/11/18	<0.005	<0.005	<0.005	<0.005	<0.005	104
	02/07/19	<0.005	<0.005	<0.005	<0.005	<0.005	95
	08/09/19	<0.005	<0.005	<0.005	<0.005	<0.005	100
	02/21/20	<0.006	<0.005	<0.005	<0.005	<0.006	98.1
	08/13/20	<0.006	<0.005	<0.005	<0.005	<0.006	105
MW-7	09/22/06	<0.001	<0.001	<0.001	0.0019	0.0019	<2.00
	05/16/07	<0.001	<0.001	<0.001	<0.001	<0.001	1,220
	10/22/08	<0.001	<0.001	<0.001	<0.001	<0.001	1,060
	12/10/08	<0.005	<0.005	<0.005	<0.015	<0.015	1,050
	03/11/09	<0.001	<0.001	<0.001	<0.003	<0.003	1,360
	06/10/09	<0.001	<0.001	<0.001	<0.003	<0.003	1,030
	09/15/09	<0.001	<0.001	<0.001	<0.003	<0.003	762
	12/07/09	<0.001	<0.001	<0.001	<0.003	<0.003	532
DUP	12/07/09	<0.001	<0.001	<0.001	<0.003	<0.003	523
	03/10/10	<0.001	<0.001	<0.001	<0.003	<0.003	721

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Table 2
OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethyl-benzene (mg/l)	Xylene (mg/l)	Total BTEX (mg/l)	Chloride (mg/l)
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration		0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L*
DUP	03/10/10	<0.001	<0.001	<0.001	<0.003	<0.003	958
	06/07/10	<0.001	<0.001	<0.001	<0.003	<0.003	1,200
DUP	06/07/10	<0.001	<0.001	<0.001	<0.003	<0.003	1,170
	09/13/10	<0.001	<0.001	<0.001	<0.003	<0.003	1,310
DUP	09/13/10	<0.001	<0.001	<0.001	<0.003	<0.003	1,310
	12/13/10	<0.001	<0.001	<0.001	<0.003	<0.003	1,220
DUP	12/13/10	<0.001	<0.001	<0.001	<0.003	<0.003	1,220
	03/10/11	<0.001	<0.001	<0.001	<0.003	<0.003	1,630
DUP	03/10/11	<0.001	<0.001	<0.001	<0.003	<0.003	1,650
	06/13/11	<0.00014	<0.0002	<0.0003	<0.00023	<0.0003	1,600
DUP	06/13/11	<0.00014	<0.0002	<0.0003	<0.00023	<0.0003	1,600
	09/19/11	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	1,900
	12/13/11	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	1,200
	02/21/12	-	-	-	-	-	1,010
	04/06/12	<0.005	<0.005	<0.005	<0.015	<0.015	806
	06/19/12	<0.005	<0.005	<0.005	<0.015	<0.015	1,220
	09/25/12	<0.005	<0.005	<0.005	<0.015	<0.015	904
	12/14/12	<0.005	<0.005	<0.005	<0.015	<0.015	1,160
	03/28/13	<0.005	<0.005	<0.005	<0.015	<0.015	1,030
	06/06/13	<0.005	<0.005	<0.005	<0.015	<0.015	786
	09/19/13	<0.005	<0.005	<0.005	<0.015	<0.015	1,320
	12/27/13	<0.005	<0.005	<0.005	<0.015	<0.015	909
	03/27/14	<0.005	<0.005	<0.005	<0.015	<0.015	717
	12/27/13	<0.005	<0.005	<0.005	<0.015	<0.015	909
	03/27/14	<0.005	<0.005	<0.005	<0.015	<0.015	717
	06/19/14	<0.005	<0.005	<0.005	<0.015	<0.015	1,220
DUP	06/19/14	<0.005	<0.005	<0.005	<0.015	<0.015	1,100

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Table 2
OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethyl-benzene (mg/l)	Xylene (mg/l)	Total BTEX (mg/l)	Chloride (mg/l)
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration		0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L *
MW-7 Cont.	09/30/14	<0.005	<0.005	<0.005	<0.015	<0.015	1,260
	12/16/14	<0.005	<0.005	<0.005	<0.015	<0.015	1,650
	03/25/15	<0.005	<0.005	<0.005	<0.015	<0.015	1,610
	06/17/15	<0.005	<0.005	<0.005	<0.015	<0.015	1,820
	09/09/15	<0.005	<0.005	<0.005	<0.015	<0.015	1,380
	12/18/15	<0.005	<0.005	<0.005	<0.015	<0.015	1,110
	03/15/16	<0.005	<0.005	<0.005	<0.015	<0.015	984
DUP	03/15/16	<0.005	<0.005	<0.005	<0.015	<0.015	917
	06/29/16	<0.005	<0.005	<0.005	<0.015	<0.015	768
DUP	06/29/16	<0.005	<0.005	<0.005	<0.015	<0.015	811
	09/08/16	<0.005	<0.005	<0.005	<0.015	<0.015	874
	12/06/16	<0.005	<0.005	<0.005	<0.005	<0.005	1,030
	03/02/17	<0.005	<0.005	<0.005	<0.005	<0.005	1,250
	08/30/17	<0.005	<0.005	<0.005	<0.005	<0.005	701
DUP	08/30/17	<0.005	<0.005	<0.005	<0.005	<0.005	683
	02/22/18	<0.005	<0.005	<0.005	<0.005	<0.005	772
DUP	02/22/18	<0.005	<0.005	<0.005	<0.005	<0.005	781
	09/12/18	<0.005	<0.005	<0.005	<0.005	<0.005	781
DUP	09/12/18	<0.005	<0.005	<0.005	<0.005	<0.005	795
	02/07/19	<0.005	<0.005	<0.005	<0.005	<0.005	917
	08/09/19	<0.005	<0.005	<0.005	<0.005	<0.005	767
	02/21/20	<0.006	<0.005	<0.005	<0.005	<0.006	536
	08/13/20	<0.006	<0.005	<0.005	<0.005	<0.006	1,040
MW-8	11/16/12	<0.005	<0.005	<0.005	<0.015	<0.015	252
	12/14/12	<0.005	<0.005	<0.005	<0.015	<0.015	245
	03/28/13	<0.005	<0.005	<0.005	<0.015	<0.015	246
	06/06/13	<0.005	<0.005	<0.005	<0.015	<0.015	155

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Table 2
OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethyl-benzene (mg/l)	Xylene (mg/l)	Total BTEX (mg/l)	Chloride (mg/l)
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration		0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L		250.0 mg/L*
DUP	09/19/13	<0.005	<0.005	<0.005	<0.015	<0.015	120
	12/27/13	<0.005	<0.005	<0.005	<0.015	<0.015	115
	03/27/14	<0.005	<0.005	<0.005	<0.015	<0.015	127
	06/19/14	<0.005	<0.005	<0.005	<0.015	<0.015	136
	09/30/14	<0.005	<0.005	<0.005	<0.015	<0.015	132
	12/16/14	<0.005	<0.005	<0.005	<0.015	<0.015	125
	03/25/15	<0.005	<0.005	<0.005	<0.015	<0.015	120
	06/17/15	<0.005	<0.005	<0.005	<0.015	<0.015	128
	09/09/15	<0.005	<0.005	<0.005	<0.015	<0.015	119
	12/18/15	<0.005	<0.005	<0.005	<0.015	<0.015	124
	03/15/16	<0.005	<0.005	<0.005	<0.015	<0.015	125
	06/29/16	<0.005	<0.005	<0.005	<0.015	<0.015	123
	09/08/16	<0.005	<0.005	<0.005	<0.015	<0.015	121
	12/06/16	<0.005	<0.005	<0.005	<0.005	<0.005	127
	03/02/17	<0.005	<0.005	<0.005	<0.005	<0.005	110
	03/02/17	<0.005	<0.005	<0.005	<0.005	<0.005	110
	08/30/17	<0.005	<0.005	<0.005	<0.005	<0.005	104
	02/22/18	<0.005	<0.005	<0.005	<0.005	<0.005	113
	09/12/18	<0.005	<0.005	<0.005	<0.005	<0.005	122
	02/07/19	<0.005	<0.005	<0.005	<0.005	<0.005	117
	08/09/19	<0.005	<0.005	<0.005	<0.005	<0.005	122
	02/21/20	<0.006	<0.005	<0.005	<0.005	<0.006	115
	08/13/20	<0.006	<0.005	<0.005	<0.005	<0.006	111

(-) Not Analyzed

NM - Not measured

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Table 3
OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Summary of Analysis of MW-7 Groundwater Samples
Lea County, New Mexico

Sample ID	Date Sampled	Chloride (mg/l)
MW-7 Sample 1	10/28/2015	1,340
MW-7 Sample 2	10/28/2015	1,010
MW-7 Sample 3	10/28/2015	852
MW-7 Sample 4	10/28/2015	856
MW-7 Sample 5	10/28/2015	813
MW-7 Sample 6	10/28/2015	1,000
MW-7 Sample 1	4/21/2016	925
MW-7 Sample 2	4/21/2016	923
MW-7 Sample 3	4/21/2016	830
MW-7 Sample 4	4/21/2016	783
MW-7 Sample 5	4/21/2016	743
MW-7 Sample 6	4/21/2016	756
Initial #1	6/16/2016	954
100 gal #2	6/16/2016	777
200 gal #3	6/16/2016	693
300 gal #4	6/16/2016	605
400 gal #5	6/16/2016	677
500 gal #6	6/16/2016	629
MW-7 Sample 1	8/18/2016	881
MW-7 Sample 2	8/18/2016	843
MW-7 Sample 3	8/18/2016	792
MW-7 Sample 4	8/18/2016	755
MW-7 Sample 5	8/18/2016	706
MW-7 Sample 6	8/18/2016	678

Table 3
OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Summary of Analysis of MW-7 Groundwater Samples
Lea County, New Mexico

Sample ID	Date Sampled	Chloride (mg/l)
MW-7 Sample 1	9/30/2016	933
MW-7 Sample 2	9/30/2016	864
MW-7 Sample 3	9/30/2016	798
MW-7 Sample 4	9/30/2016	733
MW-7 Sample 5	9/30/2016	711
MW-7 Sample 6	9/30/2016	706
DUP	9/30/2016	688
MW-7 Initial	10/28/2016	924
MW-7 #1	10/28/2016	843
MW-7 #2	10/28/2016	729
MW-7 #3	10/28/2016	656
MW-7 #4	10/28/2016	668
MW-7 #5	10/28/2016	636
MW-7 Initial	11/17/2016	907
MW-7 #1	11/17/2016	767
MW-7 #2	11/17/2016	700
MW-7 #3	11/17/2016	668
MW-7 #4	11/17/2016	641
MW-7 #5	11/17/2016	607
MW-7 Initial	12/22/2016	1,010
MW-7 #1	12/22/2016	826
MW-7 #2	12/22/2016	823
MW-7 #3	12/22/2016	676
MW-7 #4	12/22/2016	664
MW-7 #5	12/22/2016	675

Table 3
OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Summary of Analysis of MW-7 Groundwater Samples
Lea County, New Mexico

Sample ID	Date Sampled	Chloride (mg/l)
MW-7 -1	6/7/2017	1,040
MW-7 -2	6/7/2017	890
MW-7 -3	6/7/2017	876
MW-7 -4	6/7/2017	880
MW-7 -5	6/7/2017	800
MW-7 -6	6/7/2017	771
MW-7 -DUP	6/7/2017	868
MW-7-1 Intial sample	11/21/2017	599
MW-7-2 100gal	11/21/2017	842
MW-7-3 200gal	11/21/2017	886
MW-7-4 300gal	11/21/2017	924
MW-7-5 400gal	11/21/2017	924
MW-7 Sample 1	6/7/2018	672
MW-7 Sample 2	6/7/2018	824
MW-7 Sample 3	6/7/2018	784
MW-7 Sample 4	6/7/2018	823
MW-7 Sample 5	6/7/2018	769
MW-7 -1	9/10/2018	773
MW-7 -2	9/10/2018	812
MW-7 -3	9/10/2018	800
MW-7 -4	9/10/2018	789
MW-7 -5	9/10/2018	785
MW-7 -6	9/10/2018	773

Table 3
OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Summary of Analysis of MW-7 Groundwater Samples
Lea County, New Mexico

Sample ID	Date Sampled	Chloride (mg/l)
MW-7 -1	11/29/2018	637
MW-7 -2	11/29/2018	728
MW-7 -3	11/29/2018	772
MW-7 -4	11/29/2018	770
MW-7 -5	11/29/2018	750
MW-7-6	11/29/2018	765
Dup	11/29/2018	760
MW-7-1 Intial	2/6/2019	724
MW-7-2 100 gallons	2/6/2019	757
MW-7-3 200 gallons	2/6/2019	816
MW-7-4 300 gallons	2/6/2019	864
MW-7-5 400 gallons	2/6/2019	869
MW-7-6 500 gallons	2/6/2019	857
DUP	2/6/2019	679
MW-7-1	6/21/2019	724
MW-7-2	6/21/2019	757
MW-7-3	6/21/2019	816
MW-7-4	6/21/2019	864
MW-7-5	6/21/2019	869
MW-7-6	6/21/2019	857
DUP	6/21/2019	679
MW-7-1	9/3/2019	793
MW-7-2	9/3/2019	777
MW-7-3	9/3/2019	812
MW-7-4	9/3/2019	836
MW-7-5	9/3/2019	826
MW-7-6	9/3/2019	854
DUP	9/3/2019	850

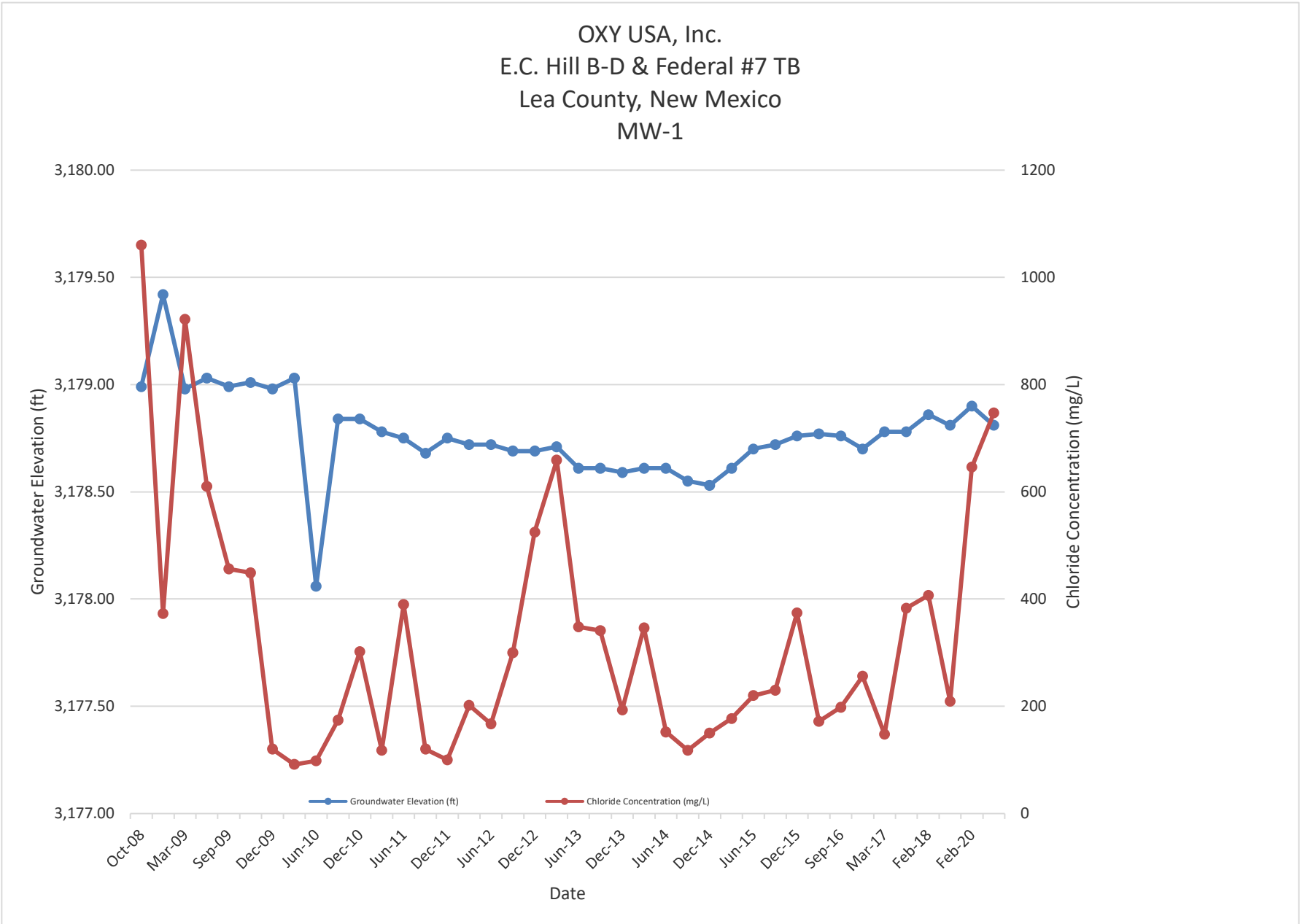
212C-MD-02107

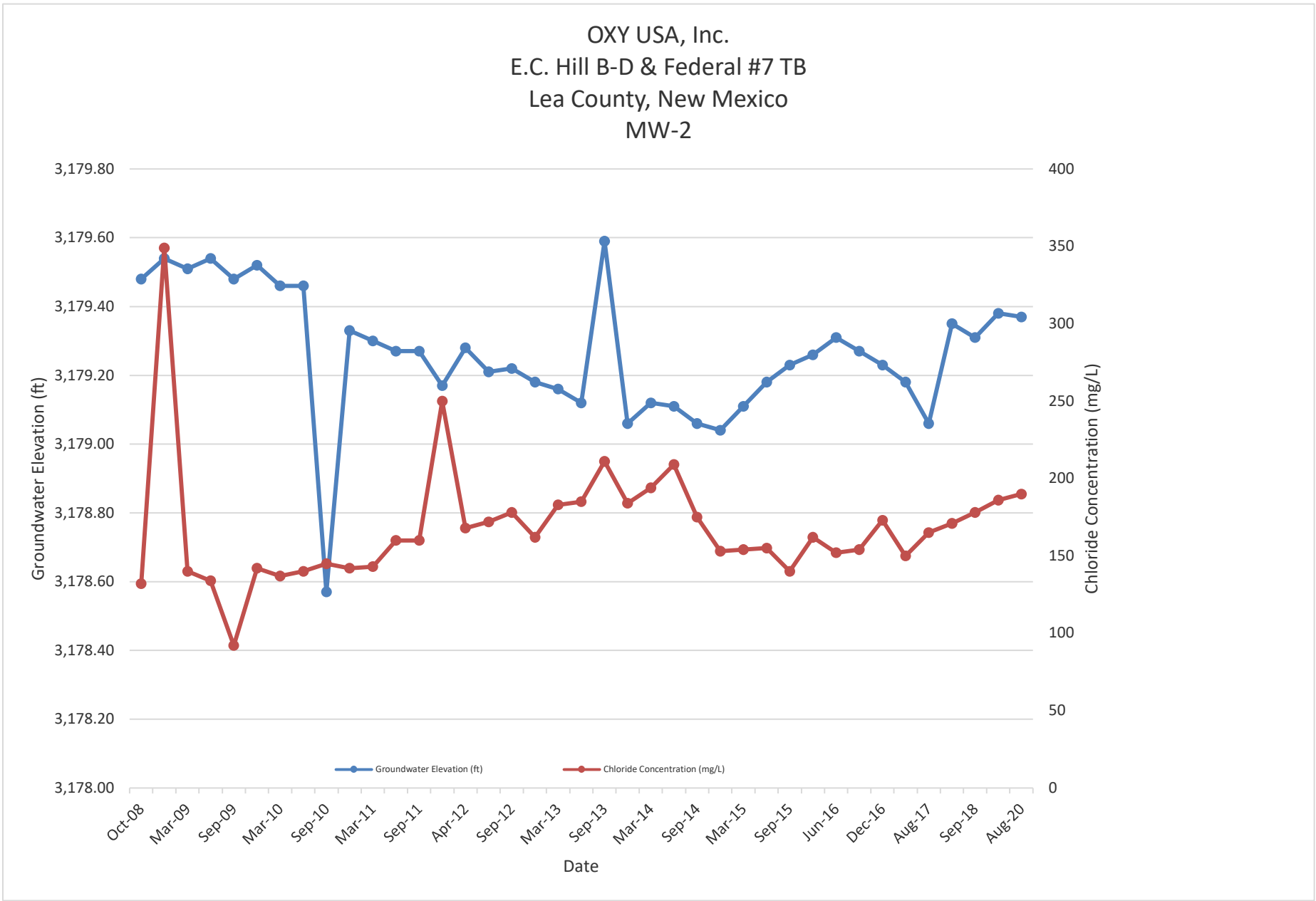
Table 3
OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Summary of Analysis of MW-7 Groundwater Samples
Lea County, New Mexico

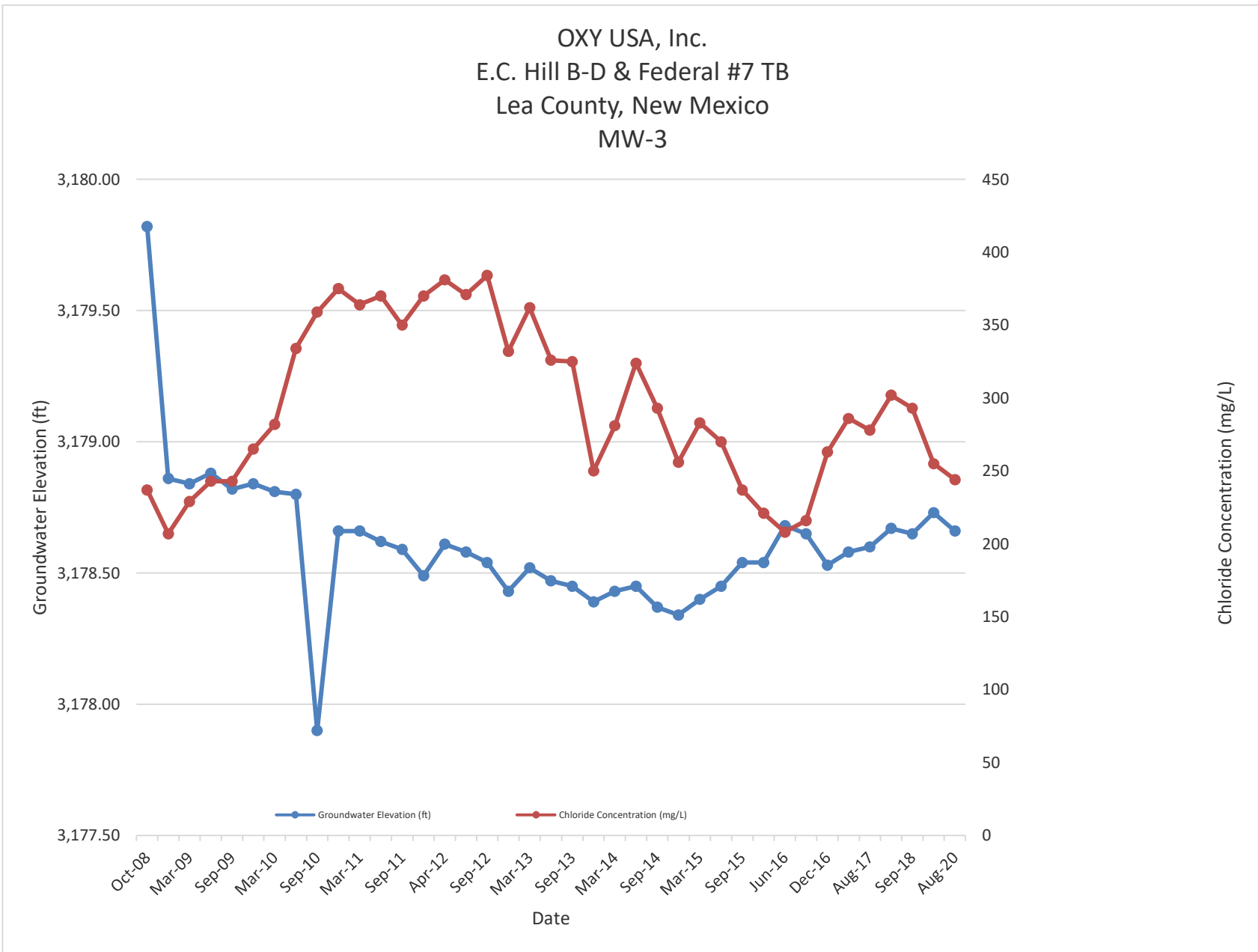
Sample ID	Date Sampled	Chloride (mg/l)
MW-7-1	2/27/2020	26.1
MW-7-2	2/27/2020	522
MW-7-3	2/27/2020	559
MW-7-4	2/27/2020	619
MW-7-5	2/27/2020	685
MW-7-6	2/27/2020	598
DUP	2/27/2020	591
MW-7-1	5/7/2020	683
MW-7-2	5/7/2020	750
MW-7-3	5/7/2020	817
MW-7-4	5/7/2020	885
MW-7-5	5/7/2020	955
MW-7-6	5/7/2020	973
DUP	5/7/2020	973
MW-7-1	8/17/2020	836
MW-7-2	8/17/2020	813
MW-7-3	8/17/2020	854
MW-7-4	8/17/2020	918
MW-7-5	8/17/2020	943
MW-7-6	8/17/2020	970
DUP	8/17/2020	949
MW-7-1	11/17/2020	1,180
MW-7-2	11/17/2020	1,070
MW-7-3	11/17/2020	1,020
MW-7-4	11/17/2020	1,000
MW-7-5	11/17/2020	895
MW-7-6	11/17/2020	746

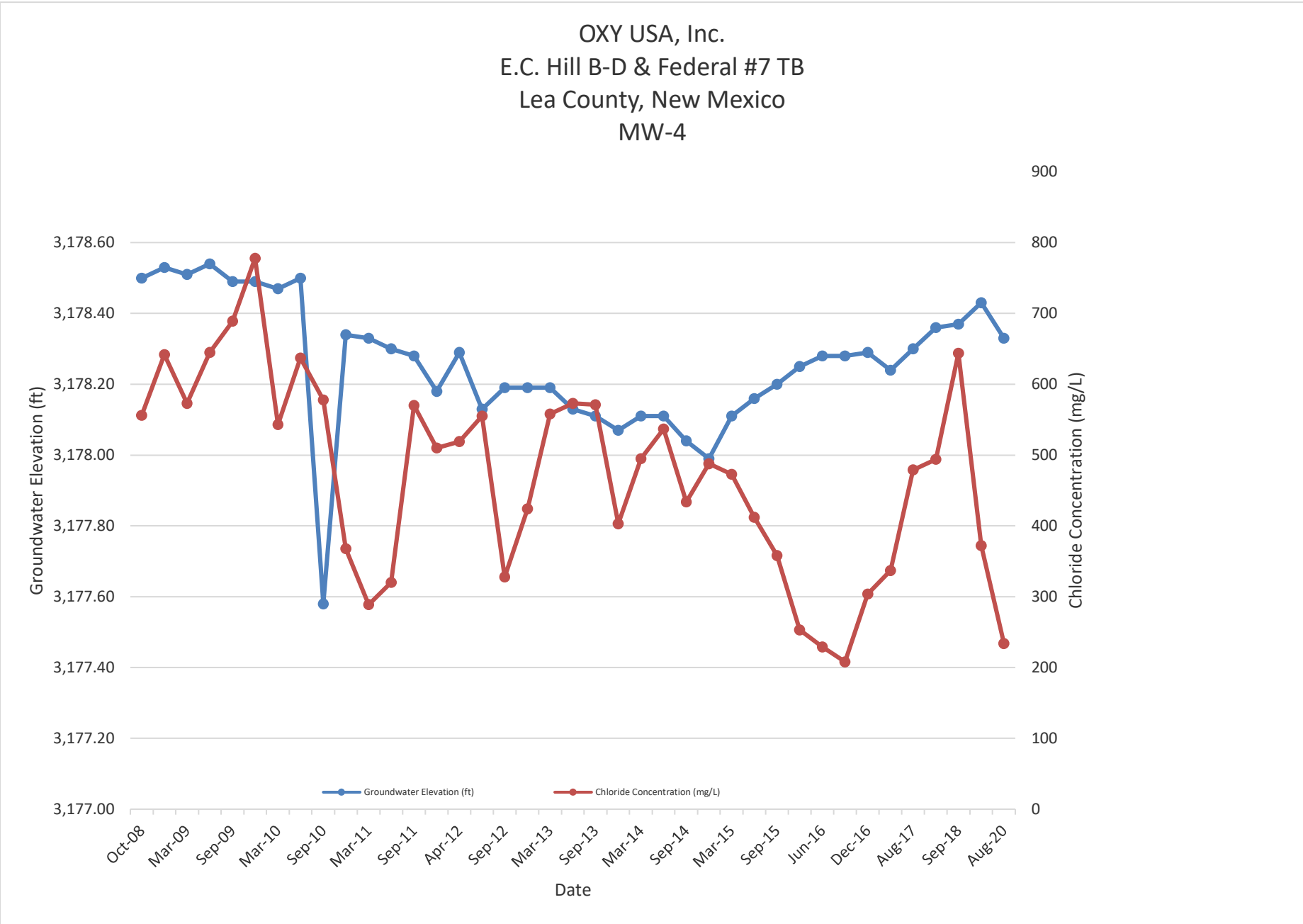
212C-MD-02107

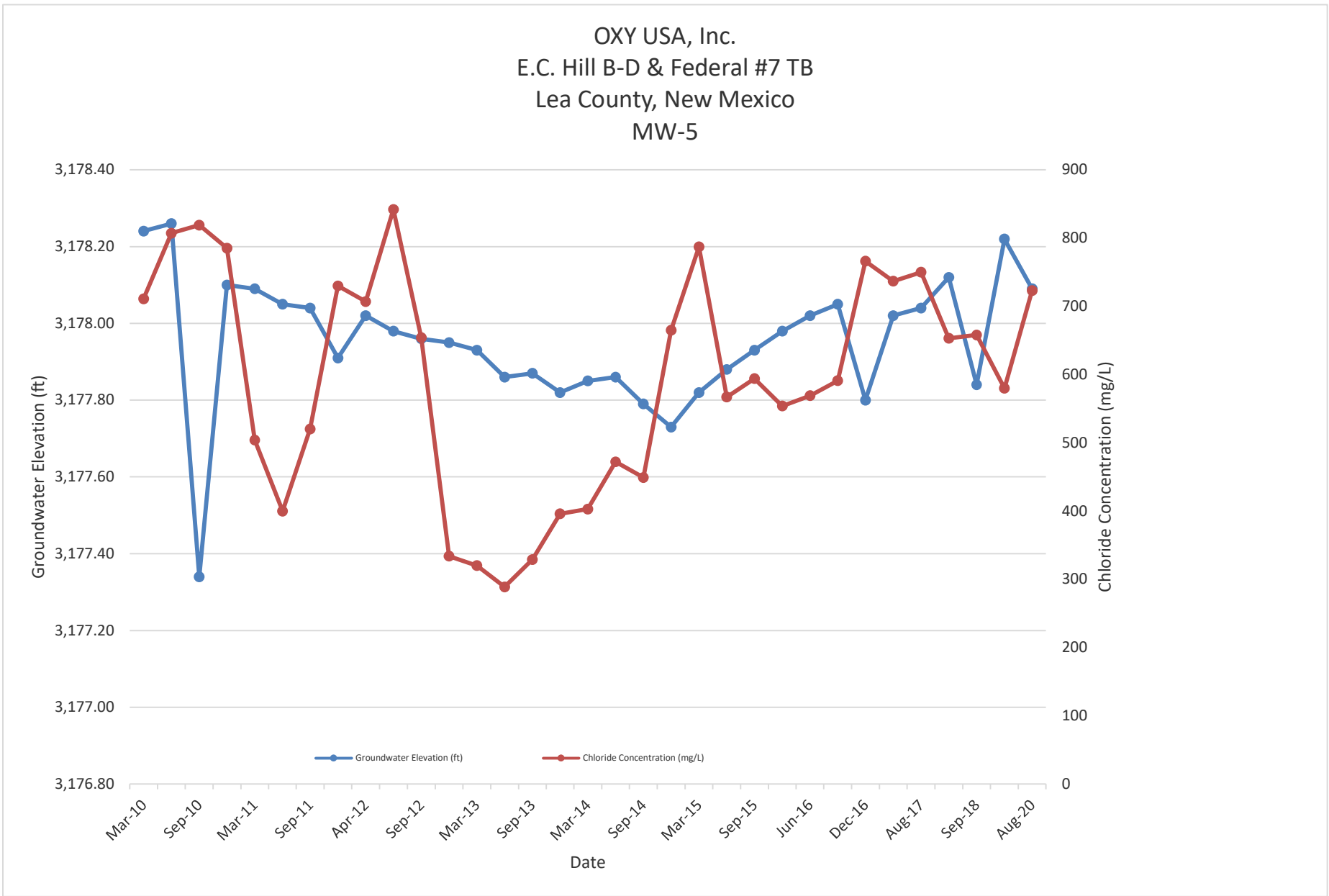
Appendix A - Graphs

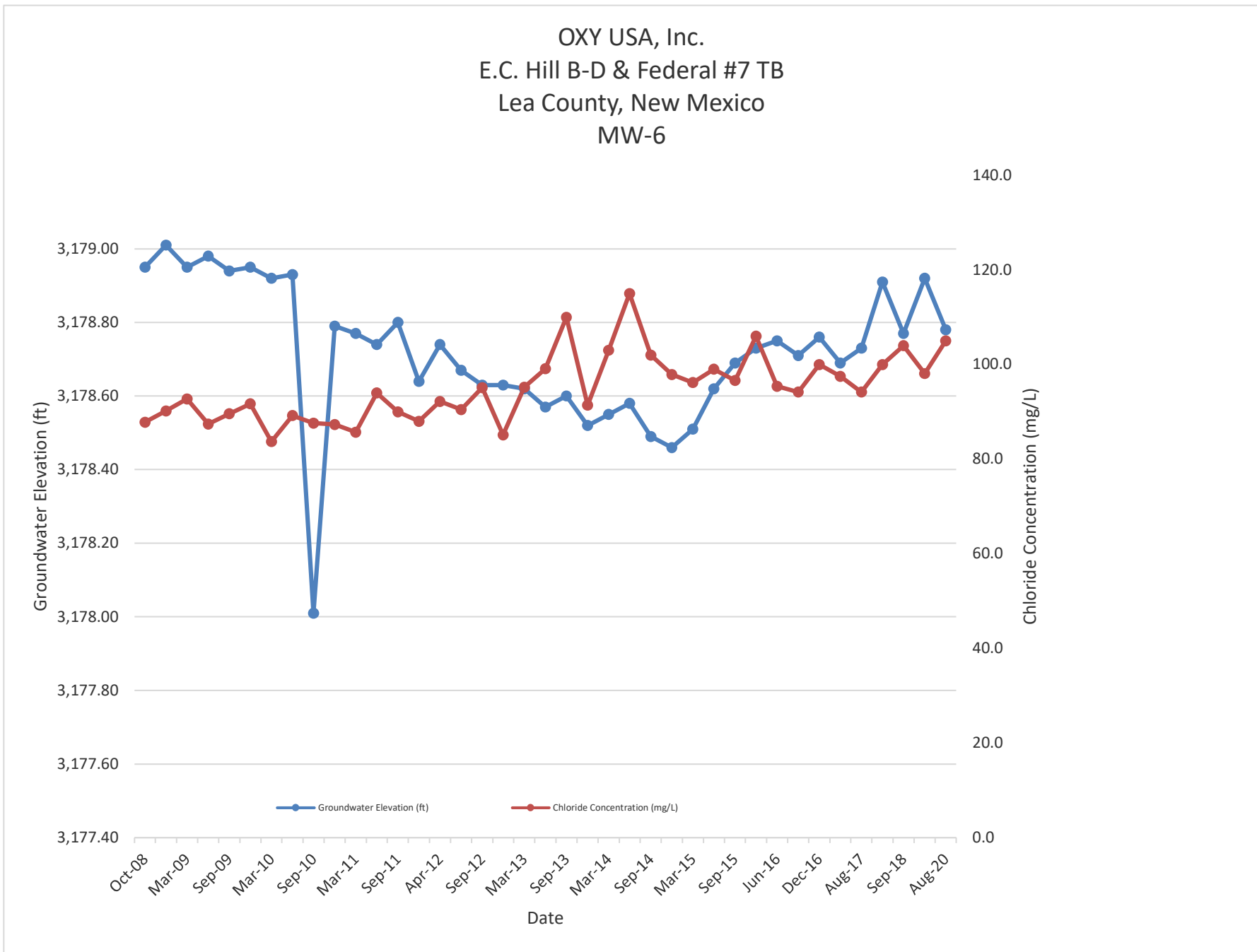


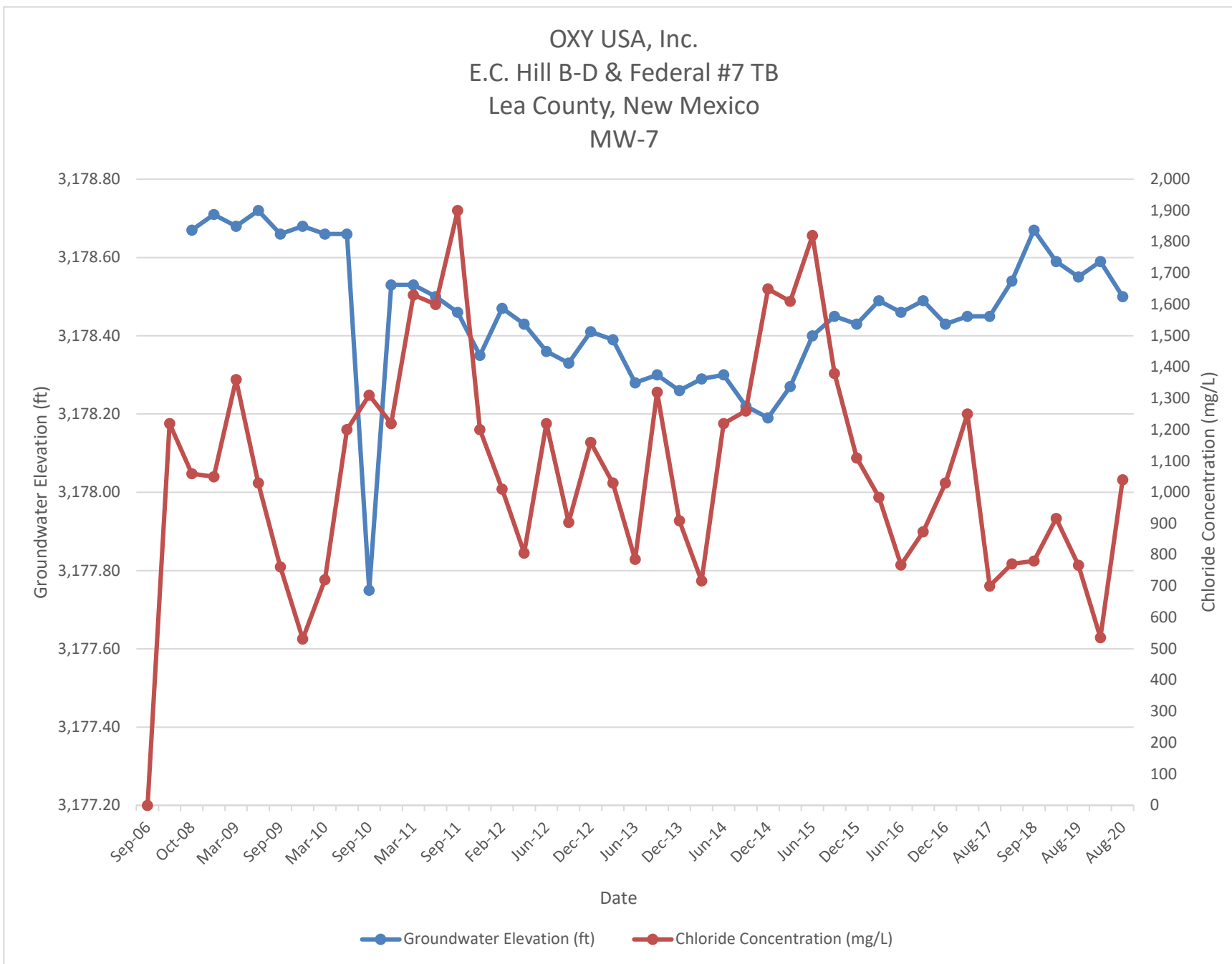




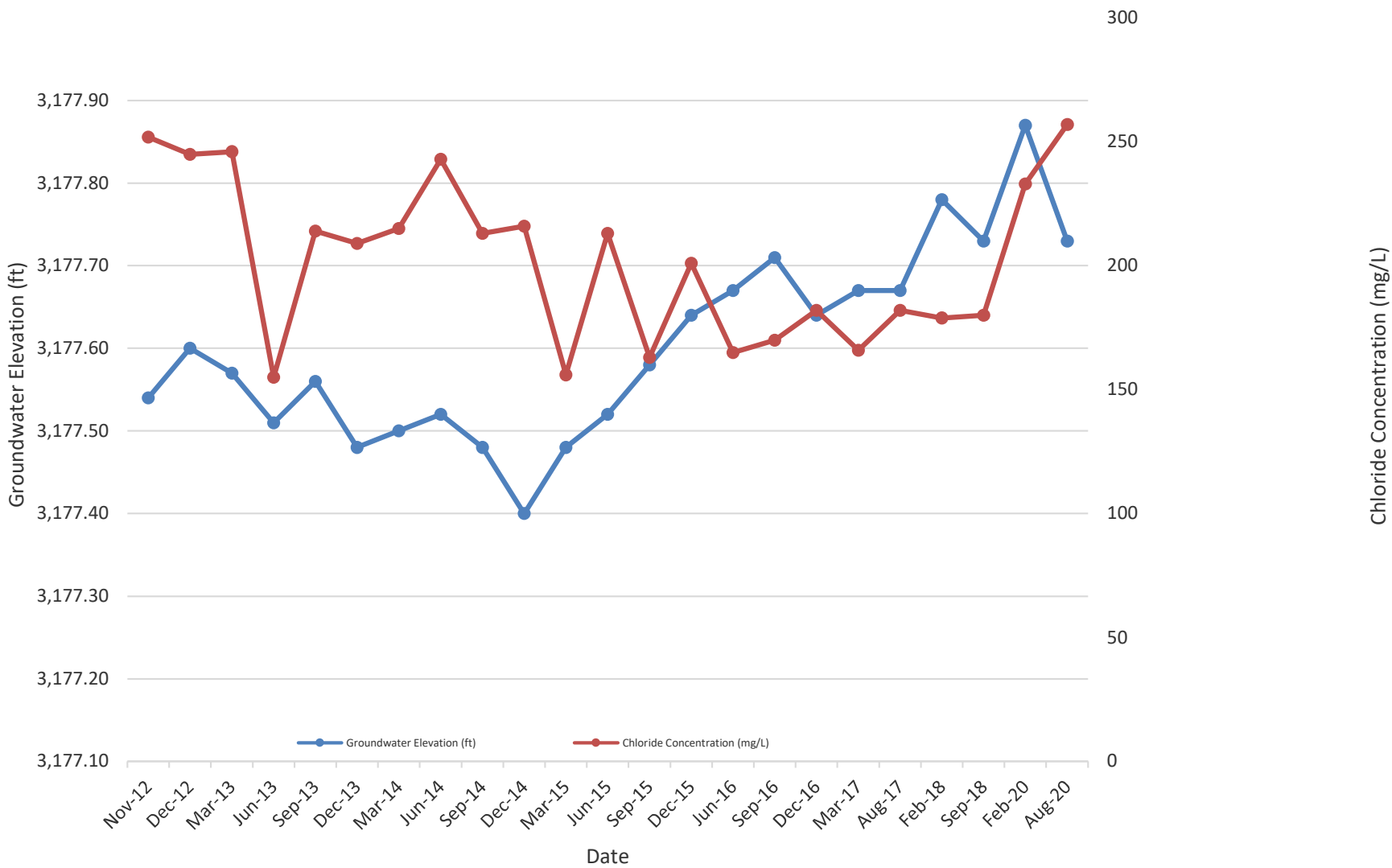


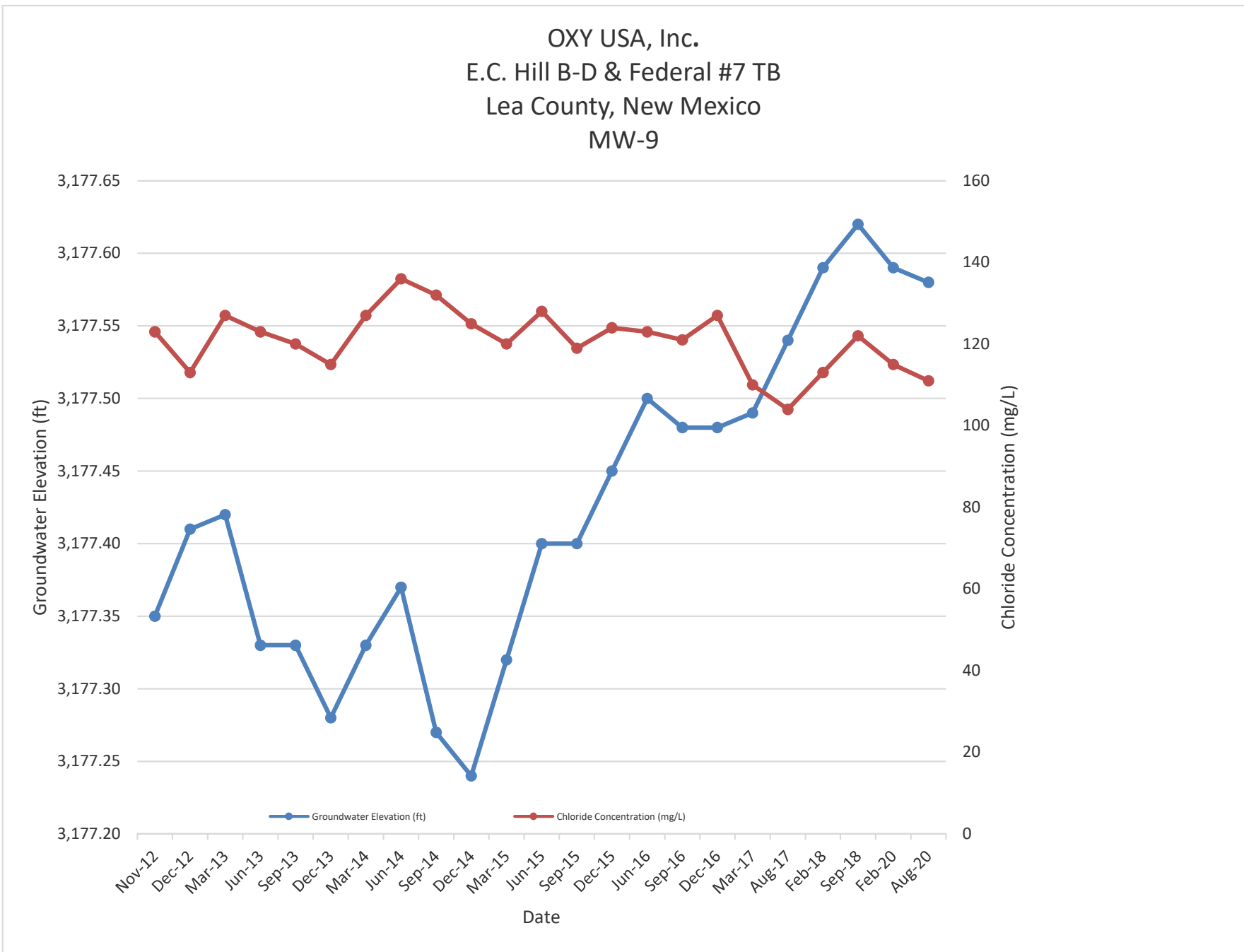






OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Lea County, New Mexico
MW-8





Appendix B – Lab Reports



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

March 04, 2020

Mike Carmona
Glenn Springs Holdings, Inc.
PO Box 2148
Houston, TX 77252-2148

Work Order: **HS20021081**

Laboratory Results for: **55627DM GSHI PXP Hill E.C. Federal #7 TB**

Dear Mike,

ALS Environmental received 11 sample(s) on Feb 25, 2020 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,

Generated By: JUMOKE.LAWAL

Dane J. Wacasey

ALS Houston, US

Date: 04-Mar-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS20021081

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20021081-01	MW-1	Groundwater		20-Feb-2020 12:55	25-Feb-2020 08:37	☐
HS20021081-02	MW-2	Groundwater		20-Feb-2020 13:20	25-Feb-2020 08:37	☐
HS20021081-03	MW-3	Groundwater		20-Feb-2020 14:00	25-Feb-2020 08:37	☐
HS20021081-04	MW-4	Groundwater		21-Feb-2020 13:00	25-Feb-2020 08:37	☐
HS20021081-05	MW-5	Groundwater		21-Feb-2020 11:15	25-Feb-2020 08:37	☐
HS20021081-06	MW-6	Groundwater		21-Feb-2020 12:20	25-Feb-2020 08:37	☐
HS20021081-07	MW-7	Groundwater		21-Feb-2020 13:35	25-Feb-2020 08:37	☐
HS20021081-08	MW-8	Groundwater		21-Feb-2020 11:45	25-Feb-2020 08:37	☐
HS20021081-09	MW-9	Groundwater		21-Feb-2020 10:50	25-Feb-2020 08:37	☐
HS20021081-10	DUP	Groundwater		21-Feb-2020 00:00	25-Feb-2020 08:37	☐
HS20021081-11	Trip Blank	Water	CG-011520 -371	21-Feb-2020 00:00	25-Feb-2020 08:37	☐

ALS Houston, US

Date: 04-Mar-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS20021081

CASE NARRATIVE

GCMS Volatiles by Method SW8260

Batch ID: R357097

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

WetChemistry by Method E300

Batch ID: R357493

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

ALS Houston, US

Date: 04-Mar-20

Client: Glenn Springs Holdings, Inc.
 Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
 Sample ID: MW-1
 Collection Date: 20-Feb-2020 12:55

ANALYTICAL REPORT

WorkOrder:HS20021081
 Lab ID:HS20021081-01
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	26-Feb-2020 15:37
Ethylbenzene	U		0.50	5.0	ug/L	1	26-Feb-2020 15:37
Toluene	U		0.50	5.0	ug/L	1	26-Feb-2020 15:37
Xylenes, Total	U		0.50	5.0	ug/L	1	26-Feb-2020 15:37
Surr: 1,2-Dichloroethane-d4	99.9			70-126	%REC	1	26-Feb-2020 15:37
Surr: 4-Bromofluorobenzene	91.8			82-124	%REC	1	26-Feb-2020 15:37
Surr: Dibromofluoromethane	102			77-123	%REC	1	26-Feb-2020 15:37
Surr: Toluene-d8	104			82-127	%REC	1	26-Feb-2020 15:37
ANIONS BY E300.0		Method:E300				Analyst: KVL	
Chloride	646		4.00	10.0	mg/L	20	03-Mar-2020 11:35

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

ALS Houston, US

Date: 04-Mar-20

Client: Glenn Springs Holdings, Inc.
 Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
 Sample ID: MW-2
 Collection Date: 20-Feb-2020 13:20

ANALYTICAL REPORT

WorkOrder:HS20021081
 Lab ID:HS20021081-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	26-Feb-2020 18:28
Ethylbenzene	U		0.50	5.0	ug/L	1	26-Feb-2020 18:28
Toluene	U		0.50	5.0	ug/L	1	26-Feb-2020 18:28
Xylenes, Total	U		0.50	5.0	ug/L	1	26-Feb-2020 18:28
Surr: 1,2-Dichloroethane-d4	102			70-126	%REC	1	26-Feb-2020 18:28
Surr: 4-Bromofluorobenzene	84.3			82-124	%REC	1	26-Feb-2020 18:28
Surr: Dibromofluoromethane	102			77-123	%REC	1	26-Feb-2020 18:28
Surr: Toluene-d8	103			82-127	%REC	1	26-Feb-2020 18:28
ANIONS BY E300.0		Method:E300				Analyst: KVL	
Chloride	186		4.00	10.0	mg/L	20	03-Mar-2020 11:53

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

ALS Houston, US

Date: 04-Mar-20

Client: Glenn Springs Holdings, Inc.
 Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
 Sample ID: MW-3
 Collection Date: 20-Feb-2020 14:00

ANALYTICAL REPORT

WorkOrder:HS20021081
 Lab ID:HS20021081-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	26-Feb-2020 18:52
Ethylbenzene	U		0.50	5.0	ug/L	1	26-Feb-2020 18:52
Toluene	U		0.50	5.0	ug/L	1	26-Feb-2020 18:52
Xylenes, Total	U		0.50	5.0	ug/L	1	26-Feb-2020 18:52
Surr: 1,2-Dichloroethane-d4	99.5			70-126	%REC	1	26-Feb-2020 18:52
Surr: 4-Bromofluorobenzene	96.8			82-124	%REC	1	26-Feb-2020 18:52
Surr: Dibromofluoromethane	91.5			77-123	%REC	1	26-Feb-2020 18:52
Surr: Toluene-d8	101			82-127	%REC	1	26-Feb-2020 18:52
ANIONS BY E300.0		Method:E300				Analyst: KVL	
Chloride	255		4.00	10.0	mg/L	20	03-Mar-2020 14:54

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

ALS Houston, US

Date: 04-Mar-20

Client: Glenn Springs Holdings, Inc.
 Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
 Sample ID: MW-4
 Collection Date: 21-Feb-2020 13:00

ANALYTICAL REPORT

WorkOrder:HS20021081
 Lab ID:HS20021081-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	26-Feb-2020 19:16
Ethylbenzene	U		0.50	5.0	ug/L	1	26-Feb-2020 19:16
Toluene	U		0.50	5.0	ug/L	1	26-Feb-2020 19:16
Xylenes, Total	U		0.50	5.0	ug/L	1	26-Feb-2020 19:16
Surr: 1,2-Dichloroethane-d4	105			70-126	%REC	1	26-Feb-2020 19:16
Surr: 4-Bromofluorobenzene	97.0			82-124	%REC	1	26-Feb-2020 19:16
Surr: Dibromofluoromethane	101			77-123	%REC	1	26-Feb-2020 19:16
Surr: Toluene-d8	100			82-127	%REC	1	26-Feb-2020 19:16
ANIONS BY E300.0		Method:E300				Analyst: KVL	
Chloride	372		4.00	10.0	mg/L	20	03-Mar-2020 12:11

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

ALS Houston, US

Date: 04-Mar-20

Client: Glenn Springs Holdings, Inc.
 Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
 Sample ID: MW-5
 Collection Date: 21-Feb-2020 11:15

ANALYTICAL REPORT

WorkOrder:HS20021081
 Lab ID:HS20021081-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	26-Feb-2020 19:40
Ethylbenzene	U		0.50	5.0	ug/L	1	26-Feb-2020 19:40
Toluene	U		0.50	5.0	ug/L	1	26-Feb-2020 19:40
Xylenes, Total	U		0.50	5.0	ug/L	1	26-Feb-2020 19:40
Surr: 1,2-Dichloroethane-d4	107			70-126	%REC	1	26-Feb-2020 19:40
Surr: 4-Bromofluorobenzene	96.0			82-124	%REC	1	26-Feb-2020 19:40
Surr: Dibromofluoromethane	103			77-123	%REC	1	26-Feb-2020 19:40
Surr: Toluene-d8	100			82-127	%REC	1	26-Feb-2020 19:40
ANIONS BY E300.0		Method:E300				Analyst: KVL	
Chloride	580		2.00	5.00	mg/L	10	03-Mar-2020 12:29

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

ALS Houston, US

Date: 04-Mar-20

Client: Glenn Springs Holdings, Inc.
 Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
 Sample ID: MW-6
 Collection Date: 21-Feb-2020 12:20

ANALYTICAL REPORT

WorkOrder:HS20021081
 Lab ID:HS20021081-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	26-Feb-2020 20:05
Ethylbenzene	U		0.50	5.0	ug/L	1	26-Feb-2020 20:05
Toluene	U		0.50	5.0	ug/L	1	26-Feb-2020 20:05
Xylenes, Total	U		0.50	5.0	ug/L	1	26-Feb-2020 20:05
Surr: 1,2-Dichloroethane-d4	106			70-126	%REC	1	26-Feb-2020 20:05
Surr: 4-Bromofluorobenzene	97.2			82-124	%REC	1	26-Feb-2020 20:05
Surr: Dibromofluoromethane	103			77-123	%REC	1	26-Feb-2020 20:05
Surr: Toluene-d8	100			82-127	%REC	1	26-Feb-2020 20:05
ANIONS BY E300.0		Method:E300				Analyst: KVL	
Chloride	98.1		2.00	5.00	mg/L	10	03-Mar-2020 12:47

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

ALS Houston, US

Date: 04-Mar-20

Client: Glenn Springs Holdings, Inc.
 Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
 Sample ID: MW-7
 Collection Date: 21-Feb-2020 13:35

ANALYTICAL REPORT

WorkOrder:HS20021081
 Lab ID:HS20021081-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	26-Feb-2020 20:29
Ethylbenzene	U		0.50	5.0	ug/L	1	26-Feb-2020 20:29
Toluene	U		0.50	5.0	ug/L	1	26-Feb-2020 20:29
Xylenes, Total	U		0.50	5.0	ug/L	1	26-Feb-2020 20:29
Surr: 1,2-Dichloroethane-d4	106			70-126	%REC	1	26-Feb-2020 20:29
Surr: 4-Bromofluorobenzene	96.3			82-124	%REC	1	26-Feb-2020 20:29
Surr: Dibromofluoromethane	103			77-123	%REC	1	26-Feb-2020 20:29
Surr: Toluene-d8	99.1			82-127	%REC	1	26-Feb-2020 20:29
ANIONS BY E300.0		Method:E300				Analyst: KVL	
Chloride	536		2.00	5.00	mg/L	10	03-Mar-2020 13:05

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

ALS Houston, US

Date: 04-Mar-20

Client: Glenn Springs Holdings, Inc.
 Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
 Sample ID: MW-8
 Collection Date: 21-Feb-2020 11:45

ANALYTICAL REPORT

WorkOrder:HS20021081
 Lab ID:HS20021081-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	26-Feb-2020 20:53
Ethylbenzene	U		0.50	5.0	ug/L	1	26-Feb-2020 20:53
Toluene	U		0.50	5.0	ug/L	1	26-Feb-2020 20:53
Xylenes, Total	U		0.50	5.0	ug/L	1	26-Feb-2020 20:53
Surr: 1,2-Dichloroethane-d4	101			70-126	%REC	1	26-Feb-2020 20:53
Surr: 4-Bromofluorobenzene	95.4			82-124	%REC	1	26-Feb-2020 20:53
Surr: Dibromofluoromethane	101			77-123	%REC	1	26-Feb-2020 20:53
Surr: Toluene-d8	99.8			82-127	%REC	1	26-Feb-2020 20:53
ANIONS BY E300.0		Method:E300				Analyst: KVL	
Chloride	233		2.00	5.00	mg/L	10	03-Mar-2020 13:23

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

ALS Houston, US

Date: 04-Mar-20

Client: Glenn Springs Holdings, Inc.
 Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
 Sample ID: MW-9
 Collection Date: 21-Feb-2020 10:50

ANALYTICAL REPORT

WorkOrder:HS20021081
 Lab ID:HS20021081-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	26-Feb-2020 21:18
Ethylbenzene	U		0.50	5.0	ug/L	1	26-Feb-2020 21:18
Toluene	U		0.50	5.0	ug/L	1	26-Feb-2020 21:18
Xylenes, Total	U		0.50	5.0	ug/L	1	26-Feb-2020 21:18
Surr: 1,2-Dichloroethane-d4	102			70-126	%REC	1	26-Feb-2020 21:18
Surr: 4-Bromofluorobenzene	98.2			82-124	%REC	1	26-Feb-2020 21:18
Surr: Dibromofluoromethane	99.7			77-123	%REC	1	26-Feb-2020 21:18
Surr: Toluene-d8	101			82-127	%REC	1	26-Feb-2020 21:18
ANIONS BY E300.0		Method:E300				Analyst: KVL	
Chloride	115		2.00	5.00	mg/L	10	03-Mar-2020 14:17

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

ALS Houston, US

Date: 04-Mar-20

Client: Glenn Springs Holdings, Inc.
 Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
 Sample ID: DUP
 Collection Date: 21-Feb-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20021081
 Lab ID:HS20021081-10
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	26-Feb-2020 21:42
Ethylbenzene	U		0.50	5.0	ug/L	1	26-Feb-2020 21:42
Toluene	U		0.50	5.0	ug/L	1	26-Feb-2020 21:42
Xylenes, Total	U		0.50	5.0	ug/L	1	26-Feb-2020 21:42
Surr: 1,2-Dichloroethane-d4	103			70-126	%REC	1	26-Feb-2020 21:42
Surr: 4-Bromofluorobenzene	96.4			82-124	%REC	1	26-Feb-2020 21:42
Surr: Dibromofluoromethane	102			77-123	%REC	1	26-Feb-2020 21:42
Surr: Toluene-d8	100			82-127	%REC	1	26-Feb-2020 21:42
ANIONS BY E300.0		Method:E300				Analyst: KVL	
Chloride	563		2.00	5.00	mg/L	10	03-Mar-2020 14:36

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

ALS Houston, US

Date: 04-Mar-20

Client: Glenn Springs Holdings, Inc.
 Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
 Sample ID: Trip Blank
 Collection Date: 21-Feb-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20021081
 Lab ID:HS20021081-11
 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	26-Feb-2020 17:15
Ethylbenzene	U		0.50	5.0	ug/L	1	26-Feb-2020 17:15
Toluene	U		0.50	5.0	ug/L	1	26-Feb-2020 17:15
Xylenes, Total	U		0.50	5.0	ug/L	1	26-Feb-2020 17:15
Surr: 1,2-Dichloroethane-d4	104			70-126	%REC	1	26-Feb-2020 17:15
Surr: 4-Bromofluorobenzene	97.8			82-124	%REC	1	26-Feb-2020 17:15
Surr: Dibromofluoromethane	102			77-123	%REC	1	26-Feb-2020 17:15
Surr: Toluene-d8	101			82-127	%REC	1	26-Feb-2020 17:15

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

ALS Houston, US

Date: 04-Mar-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20021081

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R357097 (0)		Test Name : VOLATILES - SW8260C			Matrix: Water	
HS20021081-11	Trip Blank	21 Feb 2020 00:00			26 Feb 2020 17:15	1
Batch ID: R357097 (0)		Test Name : VOLATILES - SW8260C			Matrix: Groundwater	
HS20021081-01	MW-1	20 Feb 2020 12:55			26 Feb 2020 15:37	1
HS20021081-02	MW-2	20 Feb 2020 13:20			26 Feb 2020 18:28	1
HS20021081-03	MW-3	20 Feb 2020 14:00			26 Feb 2020 18:52	1
HS20021081-04	MW-4	21 Feb 2020 13:00			26 Feb 2020 19:16	1
HS20021081-05	MW-5	21 Feb 2020 11:15			26 Feb 2020 19:40	1
HS20021081-06	MW-6	21 Feb 2020 12:20			26 Feb 2020 20:05	1
HS20021081-07	MW-7	21 Feb 2020 13:35			26 Feb 2020 20:29	1
HS20021081-08	MW-8	21 Feb 2020 11:45			26 Feb 2020 20:53	1
HS20021081-09	MW-9	21 Feb 2020 10:50			26 Feb 2020 21:18	1
HS20021081-10	DUP	21 Feb 2020 00:00			26 Feb 2020 21:42	1
Batch ID: R357493 (0)		Test Name : ANIONS BY E300.0			Matrix: Groundwater	
HS20021081-01	MW-1	20 Feb 2020 12:55			03 Mar 2020 11:35	20
HS20021081-02	MW-2	20 Feb 2020 13:20			03 Mar 2020 11:53	20
HS20021081-03	MW-3	20 Feb 2020 14:00			03 Mar 2020 14:54	20
HS20021081-04	MW-4	21 Feb 2020 13:00			03 Mar 2020 12:11	20
HS20021081-05	MW-5	21 Feb 2020 11:15			03 Mar 2020 12:29	10
HS20021081-06	MW-6	21 Feb 2020 12:20			03 Mar 2020 12:47	10
HS20021081-07	MW-7	21 Feb 2020 13:35			03 Mar 2020 13:05	10
HS20021081-08	MW-8	21 Feb 2020 11:45			03 Mar 2020 13:23	10
HS20021081-09	MW-9	21 Feb 2020 10:50			03 Mar 2020 14:17	10
HS20021081-10	DUP	21 Feb 2020 00:00			03 Mar 2020 14:36	10

ALS Houston, US

Date: 04-Mar-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20021081

QC BATCH REPORT

Batch ID: R357097 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C					
MBLK	Sample ID: VBLKW-200226	Units: ug/L		Analysis Date: 26-Feb-2020 13:11					
Client ID:	Run ID: VOA9_357097	SeqNo: 5489559		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	5.0							
Ethylbenzene	U	5.0							
Toluene	U	5.0							
Xylenes, Total	U	5.0							
Surr: 1,2-Dichloroethane-d4	46.91	0	50	0	93.8	70 - 130			
Surr: 4-Bromofluorobenzene	48.74	0	50	0	97.5	82 - 115			
Surr: Dibromofluoromethane	51.52	0	50	0	103	73 - 126			
Surr: Toluene-d8	49.25	0	50	0	98.5	81 - 120			

LCS	Sample ID: VLCSW-200226	Units: ug/L		Analysis Date: 26-Feb-2020 12:23					
Client ID:	Run ID: VOA9_357097	SeqNo: 5489558		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	18.16	5.0	20	0	90.8	74 - 120			
Ethylbenzene	19.43	5.0	20	0	97.1	77 - 117			
Toluene	18.95	5.0	20	0	94.7	77 - 118			
Xylenes, Total	59.07	5.0	60	0	98.4	75 - 122			
Surr: 1,2-Dichloroethane-d4	47.81	0	50	0	95.6	70 - 130			
Surr: 4-Bromofluorobenzene	49.41	0	50	0	98.8	82 - 115			
Surr: Dibromofluoromethane	50.06	0	50	0	100	73 - 126			
Surr: Toluene-d8	50.66	0	50	0	101	81 - 120			

MS	Sample ID: HS20020827-02MS	Units: ug/L		Analysis Date: 26-Feb-2020 16:02					
Client ID:	Run ID: VOA9_357097	SeqNo: 5489562		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	20.96	5.0	20	0	105	70 - 127			
Ethylbenzene	22.02	5.0	20	0	110	70 - 124			
Toluene	18.97	5.0	20	0	94.8	70 - 123			
Xylenes, Total	65.83	5.0	60	0	110	70 - 130			
Surr: 1,2-Dichloroethane-d4	44.98	0	50	0	90.0	70 - 126			
Surr: 4-Bromofluorobenzene	50.84	0	50	0	102	82 - 124			
Surr: Dibromofluoromethane	50.13	0	50	0	100	77 - 123			
Surr: Toluene-d8	47.76	0	50	0	95.5	82 - 127			

ALS Houston, US

Date: 04-Mar-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20021081

QC BATCH REPORT

Batch ID: R357097 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C					
MSD		Sample ID: HS20020827-02MSD		Units: ug/L		Analysis Date: 26-Feb-2020 16:26			
Client ID:		Run ID: VOA9_357097		SeqNo: 5489563		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	20.71	5.0	20	0	104	70 - 127	20.96	1.21	20
Ethylbenzene	22.11	5.0	20	0	111	70 - 124	22.02	0.429	20
Toluene	21.2	5.0	20	0	106	70 - 123	18.97	11.1	20
Xylenes, Total	64.55	5.0	60	0	108	70 - 130	65.83	1.97	20
Surr: 1,2-Dichloroethane-d4	48.11	0	50	0	96.2	70 - 126	44.98	6.74	20
Surr: 4-Bromofluorobenzene	49.17	0	50	0	98.3	82 - 124	50.84	3.34	20
Surr: Dibromofluoromethane	49.4	0	50	0	98.8	77 - 123	50.13	1.46	20
Surr: Toluene-d8	50.21	0	50	0	100	82 - 127	47.76	5	20
The following samples were analyzed in this batch:									
HS20021081-01		HS20021081-02		HS20021081-03		HS20021081-04			
HS20021081-05		HS20021081-06		HS20021081-07		HS20021081-08			
HS20021081-09		HS20021081-10		HS20021081-11					

ALS Houston, US

Date: 04-Mar-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20021081

QC BATCH REPORT

Batch ID: R357493 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0					
MBLK	Sample ID: WBLKW1-030320	Units: mg/L		Analysis Date: 03-Mar-2020 10:40					
Client ID:	Run ID: ICS-Integrion_357493		SeqNo: 5498664		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	U	0.500							
LCS	Sample ID: WLCSW1-030320	Units: mg/L		Analysis Date: 03-Mar-2020 10:58					
Client ID:	Run ID: ICS-Integrion_357493		SeqNo: 5498665		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	19.87	0.500	20	0	99.4	90 - 110			
LCSD	Sample ID: WLCSDW1-030320	Units: mg/L		Analysis Date: 03-Mar-2020 11:16					
Client ID:	Run ID: ICS-Integrion_357493		SeqNo: 5498666		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	19.77	0.500	20	0	98.8	90 - 110	19.87	0.525	20
MS	Sample ID: HS20021186-01MS	Units: mg/L		Analysis Date: 03-Mar-2020 15:30					
Client ID:	Run ID: ICS-Integrion_357493		SeqNo: 5498680		PrepDate:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	289.8	5.00	100	197.9	91.9	80 - 120			
MS	Sample ID: HS20021147-05MS	Units: mg/L		Analysis Date: 03-Mar-2020 18:31					
Client ID:	Run ID: ICS-Integrion_357493		SeqNo: 5498690		PrepDate:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	363.5	5.00	100	270.9	92.6	80 - 120			
MSD	Sample ID: HS20021186-01MSD	Units: mg/L		Analysis Date: 03-Mar-2020 15:48					
Client ID:	Run ID: ICS-Integrion_357493		SeqNo: 5498681		PrepDate:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	289.4	5.00	100	197.9	91.5	80 - 120	289.8	0.138	20

ALS Houston, US

Date: 04-Mar-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20021081

QC BATCH REPORT

Batch ID: R357493 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0					
MSD	Sample ID: HS20021147-05MSD	Units: mg/L		Analysis Date: 03-Mar-2020 18:49					
Client ID:	Run ID: ICS-Integrion_357493		SeqNo: 5498691		PrepDate:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	360.2	5.00	100	270.9	89.3	80 - 120	363.5	0.901	20

The following samples were analyzed in this batch:

HS20021081-01	HS20021081-02	HS20021081-03	HS20021081-04
HS20021081-05	HS20021081-06	HS20021081-07	HS20021081-08
HS20021081-09	HS20021081-10		

ALS Houston, US

Date: 04-Mar-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20021081

**QUALIFIERS,
ACRONYMS, UNITS**

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

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

Unit Reported	Description
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

ALS Houston, US

Date: 04-Mar-20

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	19-028-0	27-Mar-2020
California	2919, 2019-2020	30-Apr-2020
Dept of Defense	ANAB L2231 V009	22-Dec-2021
Florida	E87611-28	30-Jun-2020
Illinois	2000322019-2	09-May-2020
Kansas	E-10352 2019-2020	31-Jul-2020
Kentucky	123043, 2019-2020	30-Apr-2020
Louisiana	03087, 2019-2020	30-Jun-2020
Maryland	343, 2019-2020	30-Jun-2020
North Carolina	624-2020	31-Dec-2020
North Dakota	R-193 2019-2020	30-Apr-2020
Oklahoma	2019-067	31-Aug-2020
Texas	T104704231-19-25	30-Apr-2020

ALS Houston, US

Date: 04-Mar-20

Sample Receipt Checklist

Client Name: Glen Springs/CRA

Date/Time Received: **25-Feb-2020 08:37**

Work Order: HS20021081

Received by: **NDR**

Checklist completed by: Nilesh D. Ranchod 25-Feb-2020
eSignature Date

Reviewed by: Dane J. Wacasey 26-Feb-2020
eSignature Date

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

Shipping container/cooler in good condition?

Yes ☒No ☐Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒No ☐Not Present ☐

Custody seals intact on sample bottles?

Yes ☐No ☐Not Present ☒

VOA/TX1005/TX1006 Solids in hermetically sealed vials?

Yes ☐No ☐Not Present ☒

Chain of custody present?

Yes ☒No ☐

2 Page(s)

Chain of custody signed when relinquished and received?

Yes ☒No ☐

COC IDs:215024/215023

Samplers name present on COC?

Yes ☒No ☐

Chain of custody agrees with sample labels?

Yes ☒No ☐

Samples in proper container/bottle?

Yes ☒No ☐

Sample containers intact?

Yes ☒No ☐

Sufficient sample volume for indicated test?

Yes ☒No ☐

All samples received within holding time?

Yes ☒No ☐

Container/Temp Blank temperature in compliance?

Yes ☒No ☐

Temperature(s)/Thermometer(s):

1.2C UC/C

IR # 25

Cooler(s)/Kit(s):

43796

Date/Time sample(s) sent to storage:

02/25/2020 18:00

Water - VOA vials have zero headspace?

Yes ☒No ☐No VOA vials submitted ☐

Water - pH acceptable upon receipt?

Yes ☐No ☐N/A ☒

pH adjusted?

Yes ☐No ☐N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

Chain of Custody Form

HS20021081

Everett, WA
+1 425 356 2600Holland, MI
+1 616 399 6070

Page 1 of 2

COC ID: 215024

Glenn Springs Holdings, Inc.
55627DM GSHI PXP Hill E.C. Federal #7 TB

Customer Information		Project Information		ALS Project Manager:	
Purchase Order	4502201559 ENV749-402-D02-1100	Project Name	55627DM GSHI PXP Hill E.C. Federal #7 TB	A	8260_W(8260 BTEX)
Work Order		Project Number	55627DM	B	300_W(300 Chloride)
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.	C	8260_W(8260 BTEX-Trip Blank)
Send Report To	Mike Carmona	Invoice Attn	Accounts Payable	D	
Address	PO Box 2148	Address	PO Box 2148	E	
City/State/Zip	Houston, TX 77252-2148	City/State/Zip	Houston TX 77252-2148	F	
Phone		Phone		G	
Fax		Fax		H	
e-Mail Address	Mike.Carmona@tetratech.com	e-Mail Address		I	
				J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1	2-20-20	1255	Groundwa	1,8	4	X	X									
2	MW-2	2-20-20	1320	Groundwa	1,8	4	X	X									
3	MW-3	2-20-20	1400	Groundwa	1,8	4	X	X									
4	MW-4	2-21-20	1300	Groundwa	1,8	4	X	X									
5	MW-5	2-21-20	1115	Groundwa	1,8	4	X	X									
6	MW-6	2-21-20	1220	Groundwa	1,8	4	X	X									
7	MW-7	2-21-20	1335	Groundwa	1,8	4	X	X									
8	MW-8	2-21-20	1145	Groundwa	1,8	4	X	X									
9	MW-9	2-21-20	1050	Groundwa	1,8	4	X	X									
10	DUP	2-21-20		Groundwa	1,8	4	X	X									

Sampler(s) Please Print & Sign

Relinquished by: <i>Preston Portant</i>		Date: 2-29-20		Time: 1600		Received by: <i>WA</i>		Notes: [GSHI PXP Hill EC Federal 7 TB]	
Relinquished by: <i>Ant</i>		Date: 2-25-20		Time: 08:37		Received by (Laboratory):		Cooler ID: 43796	
Logged by (Laboratory):		Date:		Time:		Checked by (Laboratory):		Cooler Temp.: 4.1C	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035								QC Package: (Check One Box Below)	
								☒ Level II Std QC ☐ Level III Std QC/Raw Date ☐ Level IV SW846/CLP ☐ Other	

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

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Chain of Custody Form

HS20021081

Page 2 of 2

COC ID: 215023

Glenn Springs Holdings, Inc.
55627DM GSHI PXP Hill E.C. Federal #7 TB

Customer Information		Project Information		ALS Project Manager:	
Purchase Order	4502201559 ENV749-402-D02-1100	Project Name	55627DM GSHI PXP Hill E.C. Federal #7 TB	A	8260_W (8260 BTEX)
Work Order		Project Number	55627DM	B	300_W (300 Chloride)
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.	C	8260_W (8260 BTEX-Trip Blank)
Send Report To	Mike Carmona	Invoice Attn	Accounts Payable	D	
Address	PO Box 2148	Address	PO Box 2148	E	
City/State/Zip	Houston, TX 77252-2148	City/State/Zip	Houston TX 77252-2148	F	
Phone		Phone		G	
Fax		Fax		H	
e-Mail Address	Mike.Carmona@tetrattech.com	e-Mail Address		I	
				J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Trip Blank	2-21-20		Water	1,8	2			X								
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Results Due Date:	
Relinquished by: <i>Preston Pinter</i> Relinquished by: <i>NR</i> Logged by (Laboratory):		Date: 2-24-20 Time: 1600 Received by: <i>NR</i> Received by (Laboratory): <i>NR 02/25/20 08:37</i> Checked by (Laboratory):		FedEx ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour				Notes: [GSHI PXP Hill EC Federal 7 TB] Cooler ID: 43796 Cooler Temp: 1-2 QC Package: (Check One Box Below) ☒ Level II Std QC ☐ Level III Std QC/Raw Data ☐ Level IV SW843/CLP ☐ Other	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035									

ote: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.

3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By:
	Date: <u>2-24-20</u>	Time: <u>1600</u>	<u>SM</u>
	Name: <u>Protein Biotech</u>	<u>02/25/20</u>	
	Company: <u>Term Tech</u>		

43796

FEB 25 2020



Must Deliver Next Business Day
Time and Temperature Sensitive!

43796

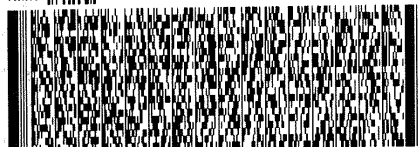
ORIGIN ID: SGRA (432) 682-4559
 MIKE CARMONA
 GSHI-TETRA TECH
 901 WEST HALL STREET
 SUITE 100
 MIDLAND, TX 79701
 UNITED STATES-US

SHIP DATE: 14FEB20
 ACTWGT: 1.00 LB MAN
 CAD: 300130/CAFE3211
 DIMS: 19x16x13 IN

TO **CLIENT SERVICES**
ALS LABORATORY GROUP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON TX 77099

(281) 630-5656
 REF: PXP HILL-DW

RMA: ||| ||| |||



FedEx Express



FedEx
 TRK# 1251 0294 5528
 0221

TUE - 25 FEB 10:30A
 PRIORITY OVERNIGHT

AB SGRA

77099
 TX-US IAH



W3785666 02/24 56B J2/049E/FE4R



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

March 10, 2020

Mike Carmona
Glenn Springs Holdings, Inc.
PO Box 2148
Houston, TX 77252-2148

Work Order: **HS20030065**

Laboratory Results for: **55627DM GSHI PXP Hill E.C. Federal #7 TB**

Dear Mike,

ALS Environmental received 8 sample(s) on Mar 03, 2020 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,

Generated By: JUMOKE.LAWAL

Dane J. Wacasey

ALS Houston, US

Date: 10-Mar-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS20030065

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20030065-01	MW-7 - 1	Groundwater		27-Feb-2020 12:00	03-Mar-2020 08:58	☐
HS20030065-02	MW-7 - 2	Groundwater		27-Feb-2020 13:00	03-Mar-2020 08:58	☐
HS20030065-03	MW-7 - 3	Groundwater		27-Feb-2020 14:00	03-Mar-2020 08:58	☐
HS20030065-04	MW-7 - 4	Groundwater		27-Feb-2020 15:00	03-Mar-2020 08:58	☐
HS20030065-05	MW-7 - 5	Groundwater		27-Feb-2020 16:00	03-Mar-2020 08:58	☐
HS20030065-06	MW-7 - 6	Groundwater		27-Feb-2020 17:00	03-Mar-2020 08:58	☐
HS20030065-07	DUP	Groundwater		27-Feb-2020 00:00	03-Mar-2020 08:58	☐
HS20030065-08	Trip Blank	Water	CG011520-372	27-Feb-2020 00:00	03-Mar-2020 08:58	☒

ALS Houston, US

Date: 10-Mar-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS20030065

CASE NARRATIVE

WetChemistry by Method E300

Batch ID: R357777

Sample ID: HS20030329-01MS

- MS and MSD are for an unrelated sample (Chloride)

ALS Houston, US

Date: 10-Mar-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 1
Collection Date: 27-Feb-2020 12:00

ANALYTICAL REPORT

WorkOrder:HS20030065
Lab ID:HS20030065-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		Method:E300		Analyst: KVL			
Chloride	26.1		0.200	0.500	mg/L	1	09-Mar-2020 15:18

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

ALS Houston, US

Date: 10-Mar-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 2
Collection Date: 27-Feb-2020 13:00

ANALYTICAL REPORT

WorkOrder:HS20030065
Lab ID:HS20030065-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	Method:E300						Analyst: KVL
Chloride	522		4.00	10.0	mg/L	20	09-Mar-2020 15:36

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

ALS Houston, US

Date: 10-Mar-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 3
Collection Date: 27-Feb-2020 14:00

ANALYTICAL REPORT

WorkOrder:HS20030065
Lab ID:HS20030065-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	Method:E300						Analyst: KVL
Chloride	559		4.00	10.0	mg/L	20	09-Mar-2020 15:54

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

ALS Houston, US

Date: 10-Mar-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 4
Collection Date: 27-Feb-2020 15:00

ANALYTICAL REPORT

WorkOrder:HS20030065
Lab ID:HS20030065-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	Method:E300						Analyst: KVL
Chloride	619		4.00	10.0	mg/L	20	09-Mar-2020 16:13

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

ALS Houston, US

Date: 10-Mar-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 5
Collection Date: 27-Feb-2020 16:00

ANALYTICAL REPORT

WorkOrder:HS20030065
Lab ID:HS20030065-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	Method:E300						Analyst: KVL
Chloride	685		4.00	10.0	mg/L	20	09-Mar-2020 16:31

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

ALS Houston, US

Date: 10-Mar-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 6
Collection Date: 27-Feb-2020 17:00

ANALYTICAL REPORT

WorkOrder:HS20030065
Lab ID:HS20030065-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	Method:E300						Analyst: KVL
Chloride	598		4.00	10.0	mg/L	20	09-Mar-2020 16:49

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

ALS Houston, US

Date: 10-Mar-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: DUP
Collection Date: 27-Feb-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20030065
Lab ID:HS20030065-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	Method:E300						Analyst: KVL
Chloride	591		4.00	10.0	mg/L	20	09-Mar-2020 17:07

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

ALS Houston, US

Date: 10-Mar-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20030065

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R357777 (0)		Test Name : ANIONS BY E300.0			Matrix: Groundwater	
HS20030065-01	MW-7 - 1	27 Feb 2020 12:00			09 Mar 2020 15:18	1
HS20030065-02	MW-7 - 2	27 Feb 2020 13:00			09 Mar 2020 15:36	20
HS20030065-03	MW-7 - 3	27 Feb 2020 14:00			09 Mar 2020 15:54	20
HS20030065-04	MW-7 - 4	27 Feb 2020 15:00			09 Mar 2020 16:13	20
HS20030065-05	MW-7 - 5	27 Feb 2020 16:00			09 Mar 2020 16:31	20
HS20030065-06	MW-7 - 6	27 Feb 2020 17:00			09 Mar 2020 16:49	20
HS20030065-07	DUP	27 Feb 2020 00:00			09 Mar 2020 17:07	20

ALS Houston, US

Date: 10-Mar-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20030065

QC BATCH REPORT

Batch ID: R357777 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0					
MBLK	Sample ID: WBLKW1-030620	Units: mg/L		Analysis Date: 09-Mar-2020 11:41					
Client ID:	Run ID: ICS-Integrion_357777		SeqNo: 5504222		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	U	0.500							
LCS	Sample ID: WLCSW1-030620	Units: mg/L		Analysis Date: 09-Mar-2020 11:59					
Client ID:	Run ID: ICS-Integrion_357777		SeqNo: 5504223		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	19.92	0.500	20	0	99.6	90 - 110			
LCSD	Sample ID: WLCSDW1-030620	Units: mg/L		Analysis Date: 09-Mar-2020 12:17					
Client ID:	Run ID: ICS-Integrion_357777		SeqNo: 5504224		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	19.87	0.500	20	0	99.3	90 - 110	19.92	0.261	20
MS	Sample ID: HS20030329-01MS	Units: mg/L		Analysis Date: 09-Mar-2020 14:42					
Client ID:	Run ID: ICS-Integrion_357777		SeqNo: 5506092		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	318.2	0.500	10	316.3	18.9	80 - 120			SEO
MS	Sample ID: HS20021310-12MS	Units: mg/L		Analysis Date: 09-Mar-2020 12:53					
Client ID:	Run ID: ICS-Integrion_357777		SeqNo: 5504226		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	91.71	0.500	10	83.66	80.5	80 - 120			O
MSD	Sample ID: HS20030329-01MSD	Units: mg/L		Analysis Date: 09-Mar-2020 15:00					
Client ID:	Run ID: ICS-Integrion_357777		SeqNo: 5506093		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	319.7	0.500	10	316.3	33.9	80 - 120	318.2	0.47	20 SEO

ALS Houston, US

Date: 10-Mar-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20030065

QC BATCH REPORT

Batch ID: R357777 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0						
MSD		Sample ID: HS20021310-12MSD		Units: mg/L		Analysis Date: 09-Mar-2020 13:11				
Client ID:		Run ID: ICS-Integrion_357777		SeqNo: 5504227		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	91.95	0.500	10	83.66	82.9	80 - 120	91.71	0.254	20	O
The following samples were analyzed in this batch:										
HS20030065-01		HS20030065-02		HS20030065-03		HS20030065-04				
HS20030065-05		HS20030065-06		HS20030065-07						

ALS Houston, US

Date: 10-Mar-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20030065

**QUALIFIERS,
ACRONYMS, UNITS**

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

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

Unit Reported	Description
mg/L	Milligrams per Liter

ALS Houston, US

Date: 10-Mar-20

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	19-028-0	27-Mar-2020
California	2919, 2019-2020	30-Apr-2020
Dept of Defense	ANAB L2231 V009	22-Dec-2021
Florida	E87611-28	30-Jun-2020
Illinois	2000322019-2	09-May-2020
Kansas	E-10352 2019-2020	31-Jul-2020
Kentucky	123043, 2019-2020	30-Apr-2020
Louisiana	03087, 2019-2020	30-Jun-2020
Maryland	343, 2019-2020	30-Jun-2020
North Carolina	624-2020	31-Dec-2020
North Dakota	R-193 2019-2020	30-Apr-2020
Oklahoma	2019-067	31-Aug-2020
Texas	T104704231-19-25	30-Apr-2020

ALS Houston, US

Date: 10-Mar-20

Sample Receipt Checklist

Client Name: Glen Springs/CRA

Date/Time Received: **03-Mar-2020 08:58**

Work Order: HS20030065

Received by: **PMG**

Checklist completed by: Nelson D. Dusara 3-Mar-2020
eSignature Date

Reviewed by: Dane J. Wacasey 3-Mar-2020
eSignature 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 ☒
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	COC IDs:215025
Samplers name present on COC?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	1.1°C uc/c IR 25		
Cooler(s)/Kit(s):	43724		
Date/Time sample(s) sent to storage:	Mar/03/2020 11:30		
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: TB received not on COC; logged in on Hold. No VOCs associated to this SDG.

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

Cincinnati, OH
+1 513 733 5336Everett, WA
+1 425 356 2600Fort Collins, CO
+1 970 490 1511Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 215025

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

Customer Information				ALS Project Manager:				ALS Work Order #:											
Project Information				Parameter/Method Request for Analysis															
Purchase Order	4502201559 ENV749-402-D02-1100			Project Name	GSHI PXP Hill E.C. Federal #7 TB			300_W (300 Chloride)											
Work Order				Project Number	55627DM (ENV749A008) (Cl only)														
Company Name	Glenn Springs Holdings, Inc.			Bill To Company	Glenn Springs Holdings, Inc.														
Send Report To	Mike Carmona			Invoice Attn	Accounts Payable														
Address	PO Box 2148			Address	PO Box 2148														
City/State/Zip	Houston, TX 77252-2148			City/State/Zip	Houston TX 77252-2148														
Phone				Phone															
Fax				Fax															
e-Mail Address	Mike.Carmona@tetratech.com			e-Mail Address															

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-7 - 1	2-27-20	1200	Groundwa	8	1	X										
2	MW-7 - 2	2-27-20	1300	Groundwa	8	1	X										
3	MW-7 - 3	2-27-20	1400	Groundwa	8	1	X										
4	MW-7 - 4	2-27-20	1500	Groundwa	8	1	X										
5	MW-7 - 5	2-27-20	1600	Groundwa	8	1	X										
6	MW-7 - 6	2-27-20	1700	Groundwa	8	1	X										
7	DUP	2-27-20	1700	Groundwa	8	1	X										
8		—	—	Groundwa	8	1	X										
9																	
10																	

Sampler(s) Please Print & Sign <i>Matthew Castrejan</i>				Shipment Method		Required Turnaround Time: (Check Box) ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour				Results Due Date:		
Relinquished by: <i>Mike Carmona</i>		Date: 3-2-20	Time: 1600	Received by: <i>Mike Carmona</i>		Received by (Laboratory): <i>3/2/2020 08:58</i>		Checked by (Laboratory):		Notes: GSHI PXP Hill EC Federal 7 TB		
Logged by (Laboratory):		Date:	Time:	Cooler ID: 43724		Cooler Temp: 41.5		QC Package: (Check One Box Below) ☒ Level II Std QC ☐ Level III Std QC/Raw Date ☐ Level IV SV/843/CLP ☐ Other				

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

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

	ALS	
	10450 Standliff Rd., Suite 210	
	Houston, Texas 77099	
	Tel. +1 281 530 5656 Fax. +1 281 530 5887	
		Date: <u>2-2</u>
		Name: <u>Mal</u>
		Company: <u>3</u>

CUSTODY SEAL		Seal Broken By:
To: <u>New Castles</u>	Time: <u>1600</u>	Date: <u>2/2/21</u>
From: <u>John Tech</u>		

FedEx
TRK# 1251 0294 5561
0224

TUE - 03 MAR 10:30A
PRIORITY OVERNIGHT

AR SGRA

77099
1A0



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

May 20, 2020

Mike Carmona
Glenn Springs Holdings, Inc.
PO Box 2148
Houston, TX 77252-2148

Work Order: **HS20050462**

Laboratory Results for: **55627DM GSHI PXP Hill E.C. Federal #7 TB**

Dear Mike,

ALS Environmental received 7 sample(s) on May 13, 2020 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,

Generated By: JUMOKE.LAWAL

Dane J. Wacasey

ALS Houston, US

Date: 20-May-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS20050462

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20050462-01	MW-7 - 1	Groundwater		07-May-2020 10:15	13-May-2020 12:20	☐
HS20050462-02	MW-7 - 2	Groundwater		07-May-2020 11:05	13-May-2020 12:20	☐
HS20050462-03	MW-7 - 3	Groundwater		07-May-2020 12:00	13-May-2020 12:20	☐
HS20050462-04	MW-7 - 4	Groundwater		07-May-2020 12:55	13-May-2020 12:20	☐
HS20050462-05	MW-7 - 5	Groundwater		07-May-2020 13:25	13-May-2020 12:20	☐
HS20050462-06	MW-7 - 6	Groundwater		07-May-2020 14:30	13-May-2020 12:20	☐
HS20050462-07	DUP	Groundwater		07-May-2020 00:00	13-May-2020 12:20	☐

ALS Houston, US

Date: 20-May-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS20050462

CASE NARRATIVE

WetChemistry by Method E300

Batch ID: R361835

Sample ID: HS20050633-01MS

- MS and MSD are for an unrelated sample
-

ALS Houston, US

Date: 20-May-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 1
Collection Date: 07-May-2020 10:15

ANALYTICAL REPORT

WorkOrder:HS20050462
Lab ID:HS20050462-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	Method:E300						Analyst: JHD
Chloride	683		10.0	25.0	mg/L	50	19-May-2020 20:26

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

ALS Houston, US

Date: 20-May-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 2
Collection Date: 07-May-2020 11:05

ANALYTICAL REPORT

WorkOrder:HS20050462
Lab ID:HS20050462-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	Method:E300						Analyst: JHD
Chloride	750		10.0	25.0	mg/L	50	19-May-2020 20:44

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

ALS Houston, US

Date: 20-May-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 3
Collection Date: 07-May-2020 12:00

ANALYTICAL REPORT

WorkOrder:HS20050462
Lab ID:HS20050462-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	Method:E300						Analyst: JHD
Chloride	817		10.0	25.0	mg/L	50	19-May-2020 21:02

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

ALS Houston, US

Date: 20-May-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 4
Collection Date: 07-May-2020 12:55

ANALYTICAL REPORT

WorkOrder:HS20050462
Lab ID:HS20050462-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	Method:E300						Analyst: JHD
Chloride	885		10.0	25.0	mg/L	50	19-May-2020 21:57

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

ALS Houston, US

Date: 20-May-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 5
Collection Date: 07-May-2020 13:25

ANALYTICAL REPORT

WorkOrder:HS20050462
Lab ID:HS20050462-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	Method:E300						Analyst: JHD
Chloride	955		10.0	25.0	mg/L	50	19-May-2020 22:15

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

ALS Houston, US

Date: 20-May-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 6
Collection Date: 07-May-2020 14:30

ANALYTICAL REPORT

WorkOrder:HS20050462
Lab ID:HS20050462-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	Method:E300						Analyst: JHD
Chloride	973		10.0	25.0	mg/L	50	19-May-2020 22:33

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

ALS Houston, US

Date: 20-May-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: DUP
Collection Date: 07-May-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20050462
Lab ID:HS20050462-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	Method:E300						Analyst: JHD
Chloride	973		10.0	25.0	mg/L	50	19-May-2020 22:51

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

ALS Houston, US

Date: 20-May-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20050462

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R361835 (0)		Test Name : ANIONS BY E300.0			Matrix: Groundwater	
HS20050462-01	MW-7 - 1	07 May 2020 10:15			19 May 2020 20:26	50
HS20050462-02	MW-7 - 2	07 May 2020 11:05			19 May 2020 20:44	50
HS20050462-03	MW-7 - 3	07 May 2020 12:00			19 May 2020 21:02	50
HS20050462-04	MW-7 - 4	07 May 2020 12:55			19 May 2020 21:57	50
HS20050462-05	MW-7 - 5	07 May 2020 13:25			19 May 2020 22:15	50
HS20050462-06	MW-7 - 6	07 May 2020 14:30			19 May 2020 22:33	50
HS20050462-07	DUP	07 May 2020 00:00			19 May 2020 22:51	50

ALS Houston, US

Date: 20-May-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20050462

QC BATCH REPORT

Batch ID: R361835 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0					
MBLK	Sample ID: MBLK051920	Units: mg/L		Analysis Date: 20-May-2020 08:30					
Client ID:	Run ID: ICS-Integrion_361835	SeqNo: 5590145		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	U	0.500							
LCS	Sample ID: LCS051920	Units: mg/L		Analysis Date: 20-May-2020 08:48					
Client ID:	Run ID: ICS-Integrion_361835	SeqNo: 5590146		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	19.31	0.500	20	0	96.6	90 - 110			
MS	Sample ID: HS20050682-01MS	Units: mg/L		Analysis Date: 19-May-2020 18:38					
Client ID:	Run ID: ICS-Integrion_361835	SeqNo: 5590120		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	354.7	0.500	10	354.2	5.20	80 - 120			SEO
MS	Sample ID: HS20050633-01MS	Units: mg/L		Analysis Date: 19-May-2020 15:54					
Client ID:	Run ID: ICS-Integrion_361835	SeqNo: 5590111		PrepDate:		DF: 5			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	1526	2.50	50	1541	-31.0	80 - 120			SEO
MSD	Sample ID: HS20050682-01MSD	Units: mg/L		Analysis Date: 19-May-2020 18:56					
Client ID:	Run ID: ICS-Integrion_361835	SeqNo: 5590121		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	362.1	0.500	10	354.2	79.0	80 - 120	354.7	2.06	20 SEO
MSD	Sample ID: HS20050633-01MSD	Units: mg/L		Analysis Date: 19-May-2020 16:13					
Client ID:	Run ID: ICS-Integrion_361835	SeqNo: 5590112		PrepDate:		DF: 5			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	1534	2.50	50	1541	-15.3	80 - 120	1526	0.513	20 SEO
The following samples were analyzed in this batch:									
HS20050462-01		HS20050462-02		HS20050462-03		HS20050462-04			
HS20050462-05		HS20050462-06		HS20050462-07					

ALS Houston, US

Date: 20-May-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20050462

**QUALIFIERS,
ACRONYMS, UNITS**

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

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

Unit Reported	Description
mg/L	Milligrams per Liter

ALS Houston, US

Date: 20-May-20

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
Dept of Defense	ANAB L2231 V009	22-Dec-2021
Florida	E87611-28	30-Jun-2020
Kansas	E-10352 2019-2020	31-Jul-2020
Louisiana	03087, 2019-2020	30-Jun-2020
Maryland	343, 2019-2020	30-Jun-2020
North Carolina	624-2020	31-Dec-2020
Oklahoma	2019-141	31-Aug-2020
Texas	T104704231-20-26	30-Apr-2021

ALS Houston, US

Date: 20-May-20

Sample Receipt Checklist

Work Order ID: HS20050462

Date/Time Received: 13-May-2020 12:20

Client Name: Glen Springs/CRA

Received by: Jared R. Makan

Completed By: <u>/S/ Paresh M. Giga</u>	13-May-2020 17:09	Reviewed by: <u>/S/ Dane J. Wacasey</u>	14-May-2020 17:31
eSignature	Date/Time	eSignature	Date/Time

Matrices: **GW**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 ☒
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	COC IDs:222300
Samplers name present on COC?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	
Temperature(s)/Thermometer(s):	1.5°C U/C IR11		
Cooler(s)/Kit(s):	45717		
Date/Time sample(s) sent to storage:	5/13/2020 17:15		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒
pH adjusted?	Yes ☐	No ☐	N/A ☒
pH adjusted by:			

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

Cincinnati, OH
+1 513 733 5336Everett, WA
+1 425 356 2600Fort Collins, CO
+1 970 490 1511Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 222300

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

Customer Information		Project Information		Parameter/Method Request for Analysis														
Purchase Order	4502201559 ENV749-402-D02-1100	Project Name	GSHI PXP Hill E.C. Federal #7 TB	300_W (300 Chloride)														
Work Order		Project Number	55627DM (ENV749A008) (Cl only)															
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.															
Send Report To	Mike Carmona	Invoice Attn	Accounts Payable															
Address	PO Box 2148	Address	PO Box 2148	HS20050462 Glenn Springs Holdings, Inc. 55627DM GSHI PXP Hill E.C. Federal #7 TB 														
City/State/Zip	Houston, TX 77252-2148	City/State/Zip	Houston TX 77252-2148															
Phone		Phone																
Fax		Fax																
e-Mail Address	Mike.Carmona@tetrattech.com	e-Mail Address																
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold	
1	MW-7 - 1	5-7-20	1015	Groundwa	8	1	X											
2	MW-7 - 2	5-7-20	1105	Groundwa	8	1	X											
3	MW-7 - 3	5-7-20	1200	Groundwa	8	1	X											
4	MW-7 - 4	5-7-20	1255	Groundwa	8	1	X											
5	MW-7 - 5	5-7-20	1325	Groundwa	8	1	X											
6	MW-7 - 6	5-7-20	1430	Groundwa	8	1	X											
7	DUP	5-7-20		Groundwa	8	1	X											
8																		
9																		
10																		
Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Other				Results Due Date:						
Preston Porter				☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour														
Relinquished by:	Date: 5-12-20	Time: 1600	Received by:				Notes: GSHI PXP Hill EC Federal 7 TB											
Relinquished by:	Date: 5/13/20	Time: 12:20	Received by (Laboratory): J. M. M. M.				Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)									
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):				45717	1.5	☒ Level II Std QC ☐ Level III Std QC/Raw Date ☐ Level IV SW846/CLP ☐ Other									
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035																		

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

Copyright 2011 by ALS Environmental.

 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: <i>sm</i>
	Date: <i>5-12-20</i>	Time: <i>1600</i>	Date: <i>05/13/20</i>
	Name: <i>Preston Brand</i>		
	Company: <i>Kva Tech</i>		



Must Deliver Next Business Day
Time and Temperature Sensitive!

45717

ORIGIN ID: SGRA (432) 682-4559
 MIKE CAMONA
 GSHI-TETRA TECH
 901 WEST WALL ST.
 SUITE 100
 MIDLAND, TX 79701
 UNITED STATES US

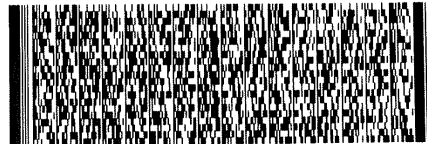
SHIP DATE: 24APR20
 ACTWGT: 6.40 LB
 CAD: 300130/CAFE3211
 DIMS: 19x16x13 IN

TO CLIENT SERVICES
 ALS LABORATORY GROUP
 10450 STANCLIFF ROAD
 SUITE 210
 HOUSTON TX 77099

(281) 530-5656

REF: 556260DM - B0 71565/6 - DW

RMA: 111111



FedEx
Express



FedEx
TRK# 1251 0296 5986
0221

WED - 13 MAY 10:30A
PRIORITY OVERNIGHT

AB SGRA

77099
TX-US IAH



#3869139 05/12 56BJ3/2925/FE4



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

August 27, 2020

Mike Carmona
Glenn Springs Holdings, Inc.
PO Box 2148
Houston, TX 77252-2148

Work Order: **HS20080737**

Laboratory Results for: **55627DM GSHI PXP Hill E.C. Federal #7 TB**

Dear Mike Carmona,

ALS Environmental received 11 sample(s) on Aug 18, 2020 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,

Generated By: JUMOKE.LAWAL

Dane J. Wacasey

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS20080737

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20080737-01	MW-1	Groundwater		13-Aug-2020 13:10	18-Aug-2020 09:50	☐
HS20080737-02	MW-2	Groundwater		13-Aug-2020 13:20	18-Aug-2020 09:50	☐
HS20080737-03	MW-3	Groundwater		13-Aug-2020 12:10	18-Aug-2020 09:50	☐
HS20080737-04	MW-4	Groundwater		13-Aug-2020 11:10	18-Aug-2020 09:50	☐
HS20080737-05	MW-5	Groundwater		13-Aug-2020 11:30	18-Aug-2020 09:50	☐
HS20080737-06	MW-6	Groundwater		13-Aug-2020 12:05	18-Aug-2020 09:50	☐
HS20080737-07	MW-7	Groundwater		13-Aug-2020 14:30	18-Aug-2020 09:50	☐
HS20080737-08	MW-8	Groundwater		13-Aug-2020 10:15	18-Aug-2020 09:50	☐
HS20080737-09	MW-9	Groundwater		13-Aug-2020 10:05	18-Aug-2020 09:50	☐
HS20080737-10	DUP	Groundwater		13-Aug-2020 00:00	18-Aug-2020 09:50	☐
HS20080737-11	Trip Blank	Water		13-Aug-2020 00:00	18-Aug-2020 09:50	☐

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS20080737

CASE NARRATIVE

GCMS Volatiles by Method SW8260

Batch ID: R367188,R367202

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

Batch ID: R367091

Sample ID: HS20080738-02MS

- MS and MSD are for an unrelated sample

WetChemistry by Method E300

Batch ID: R367487

Sample ID: HS20081070-02MS

- MS and MSD are for an unrelated sample (Chloride)
-

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
 Sample ID: MW-1
 Collection Date: 13-Aug-2020 13:10

ANALYTICAL REPORT

WorkOrder:HS20080737
 Lab ID:HS20080737-01
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	19-Aug-2020 18:53
Ethylbenzene	U		0.50	5.0	ug/L	1	19-Aug-2020 18:53
Toluene	U		0.50	5.0	ug/L	1	19-Aug-2020 18:53
Xylenes, Total	U		0.50	5.0	ug/L	1	19-Aug-2020 18:53
Surr: 1,2-Dichloroethane-d4	88.3			70-126	%REC	1	19-Aug-2020 18:53
Surr: 4-Bromofluorobenzene	95.5			82-124	%REC	1	19-Aug-2020 18:53
Surr: Dibromofluoromethane	92.7			77-123	%REC	1	19-Aug-2020 18:53
Surr: Toluene-d8	106			82-127	%REC	1	19-Aug-2020 18:53
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	747		10.0	25.0	mg/L	50	25-Aug-2020 12:42

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

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
 Sample ID: MW-2
 Collection Date: 13-Aug-2020 13:20

ANALYTICAL REPORT

WorkOrder:HS20080737
 Lab ID:HS20080737-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	19-Aug-2020 19:17
Ethylbenzene	U		0.50	5.0	ug/L	1	19-Aug-2020 19:17
Toluene	U		0.50	5.0	ug/L	1	19-Aug-2020 19:17
Xylenes, Total	U		0.50	5.0	ug/L	1	19-Aug-2020 19:17
Surr: 1,2-Dichloroethane-d4	87.5			70-126	%REC	1	19-Aug-2020 19:17
Surr: 4-Bromofluorobenzene	97.3			82-124	%REC	1	19-Aug-2020 19:17
Surr: Dibromofluoromethane	91.5			77-123	%REC	1	19-Aug-2020 19:17
Surr: Toluene-d8	106			82-127	%REC	1	19-Aug-2020 19:17
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	190		2.00	5.00	mg/L	10	25-Aug-2020 13:00

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

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
 Sample ID: MW-3
 Collection Date: 13-Aug-2020 12:10

ANALYTICAL REPORT

WorkOrder:HS20080737
 Lab ID:HS20080737-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	20-Aug-2020 01:41
Ethylbenzene	U		0.50	5.0	ug/L	1	20-Aug-2020 01:41
Toluene	U		0.50	5.0	ug/L	1	20-Aug-2020 01:41
Xylenes, Total	U		0.50	5.0	ug/L	1	20-Aug-2020 01:41
Surr: 1,2-Dichloroethane-d4	88.2			70-126	%REC	1	20-Aug-2020 01:41
Surr: 4-Bromofluorobenzene	95.2			82-124	%REC	1	20-Aug-2020 01:41
Surr: Dibromofluoromethane	92.4			77-123	%REC	1	20-Aug-2020 01:41
Surr: Toluene-d8	108			82-127	%REC	1	20-Aug-2020 01:41
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	244		2.00	5.00	mg/L	10	25-Aug-2020 13:54

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

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
 Sample ID: MW-4
 Collection Date: 13-Aug-2020 11:10

ANALYTICAL REPORT

WorkOrder:HS20080737
 Lab ID:HS20080737-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	21-Aug-2020 03:03
Ethylbenzene	U		0.50	5.0	ug/L	1	21-Aug-2020 03:03
Toluene	U		0.50	5.0	ug/L	1	21-Aug-2020 03:03
Xylenes, Total	U		0.50	5.0	ug/L	1	21-Aug-2020 03:03
Surr: 1,2-Dichloroethane-d4	94.1			70-126	%REC	1	21-Aug-2020 03:03
Surr: 4-Bromofluorobenzene	94.2			82-124	%REC	1	21-Aug-2020 03:03
Surr: Dibromofluoromethane	101			77-123	%REC	1	21-Aug-2020 03:03
Surr: Toluene-d8	99.1			82-127	%REC	1	21-Aug-2020 03:03
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	234		2.00	5.00	mg/L	10	25-Aug-2020 14:12

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

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
 Sample ID: MW-5
 Collection Date: 13-Aug-2020 11:30

ANALYTICAL REPORT

WorkOrder:HS20080737
 Lab ID:HS20080737-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	21-Aug-2020 01:23
Ethylbenzene	U		0.50	5.0	ug/L	1	21-Aug-2020 01:23
Toluene	U		0.50	5.0	ug/L	1	21-Aug-2020 01:23
Xylenes, Total	U		0.50	5.0	ug/L	1	21-Aug-2020 01:23
Surr: 1,2-Dichloroethane-d4	86.9			70-126	%REC	1	21-Aug-2020 01:23
Surr: 4-Bromofluorobenzene	96.1			82-124	%REC	1	21-Aug-2020 01:23
Surr: Dibromofluoromethane	91.8			77-123	%REC	1	21-Aug-2020 01:23
Surr: Toluene-d8	108			82-127	%REC	1	21-Aug-2020 01:23
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	708		10.0	25.0	mg/L	50	25-Aug-2020 14:30

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

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
 Sample ID: MW-6
 Collection Date: 13-Aug-2020 12:05

ANALYTICAL REPORT

WorkOrder:HS20080737
 Lab ID:HS20080737-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	21-Aug-2020 04:40
Ethylbenzene	U		0.50	5.0	ug/L	1	21-Aug-2020 04:40
Toluene	U		0.50	5.0	ug/L	1	21-Aug-2020 04:40
Xylenes, Total	U		0.50	5.0	ug/L	1	21-Aug-2020 04:40
Surr: 1,2-Dichloroethane-d4	93.5			70-126	%REC	1	21-Aug-2020 04:40
Surr: 4-Bromofluorobenzene	95.5			82-124	%REC	1	21-Aug-2020 04:40
Surr: Dibromofluoromethane	99.9			77-123	%REC	1	21-Aug-2020 04:40
Surr: Toluene-d8	99.4			82-127	%REC	1	21-Aug-2020 04:40
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	105		2.00	5.00	mg/L	10	25-Aug-2020 14:48

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

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
 Sample ID: MW-7
 Collection Date: 13-Aug-2020 14:30

ANALYTICAL REPORT

WorkOrder:HS20080737
 Lab ID:HS20080737-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	21-Aug-2020 08:44
Ethylbenzene	U		0.50	5.0	ug/L	1	21-Aug-2020 08:44
Toluene	U		0.50	5.0	ug/L	1	21-Aug-2020 08:44
Xylenes, Total	U		0.50	5.0	ug/L	1	21-Aug-2020 08:44
Surr: 1,2-Dichloroethane-d4	95.4			70-126	%REC	1	21-Aug-2020 08:44
Surr: 4-Bromofluorobenzene	94.2			82-124	%REC	1	21-Aug-2020 08:44
Surr: Dibromofluoromethane	101			77-123	%REC	1	21-Aug-2020 08:44
Surr: Toluene-d8	98.5			82-127	%REC	1	21-Aug-2020 08:44
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	1,040		10.0	25.0	mg/L	50	25-Aug-2020 15:06

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

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
 Sample ID: MW-8
 Collection Date: 13-Aug-2020 10:15

ANALYTICAL REPORT

WorkOrder:HS20080737
 Lab ID:HS20080737-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	21-Aug-2020 09:09
Ethylbenzene	U		0.50	5.0	ug/L	1	21-Aug-2020 09:09
Toluene	U		0.50	5.0	ug/L	1	21-Aug-2020 09:09
Xylenes, Total	U		0.50	5.0	ug/L	1	21-Aug-2020 09:09
Surr: 1,2-Dichloroethane-d4	96.3			70-126	%REC	1	21-Aug-2020 09:09
Surr: 4-Bromofluorobenzene	94.5			82-124	%REC	1	21-Aug-2020 09:09
Surr: Dibromofluoromethane	102			77-123	%REC	1	21-Aug-2020 09:09
Surr: Toluene-d8	98.1			82-127	%REC	1	21-Aug-2020 09:09
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	257		2.00	5.00	mg/L	10	25-Aug-2020 15:24

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

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
 Sample ID: MW-9
 Collection Date: 13-Aug-2020 10:05

ANALYTICAL REPORT

WorkOrder:HS20080737
 Lab ID:HS20080737-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	21-Aug-2020 09:33
Ethylbenzene	U		0.50	5.0	ug/L	1	21-Aug-2020 09:33
Toluene	U		0.50	5.0	ug/L	1	21-Aug-2020 09:33
Xylenes, Total	U		0.50	5.0	ug/L	1	21-Aug-2020 09:33
Surr: 1,2-Dichloroethane-d4	94.4			70-126	%REC	1	21-Aug-2020 09:33
Surr: 4-Bromofluorobenzene	93.2			82-124	%REC	1	21-Aug-2020 09:33
Surr: Dibromofluoromethane	101			77-123	%REC	1	21-Aug-2020 09:33
Surr: Toluene-d8	98.3			82-127	%REC	1	21-Aug-2020 09:33
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	111		2.00	5.00	mg/L	10	25-Aug-2020 16:18

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

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
 Sample ID: DUP
 Collection Date: 13-Aug-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20080737
 Lab ID:HS20080737-10
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260				Analyst: PC	
Benzene	U		0.60	5.0	ug/L	1	21-Aug-2020 09:57
Ethylbenzene	U		0.50	5.0	ug/L	1	21-Aug-2020 09:57
Toluene	U		0.50	5.0	ug/L	1	21-Aug-2020 09:57
Xylenes, Total	U		0.50	5.0	ug/L	1	21-Aug-2020 09:57
Surr: 1,2-Dichloroethane-d4	94.6			70-126	%REC	1	21-Aug-2020 09:57
Surr: 4-Bromofluorobenzene	94.1			82-124	%REC	1	21-Aug-2020 09:57
Surr: Dibromofluoromethane	100			77-123	%REC	1	21-Aug-2020 09:57
Surr: Toluene-d8	98.5			82-127	%REC	1	21-Aug-2020 09:57
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	723		10.0	25.0	mg/L	50	25-Aug-2020 16:36

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

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: Trip Blank
Collection Date: 13-Aug-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20080737
Lab ID:HS20080737-11
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		Method:SW8260					Analyst: PC
Benzene	U		0.60	5.0	ug/L	1	19-Aug-2020 15:16
Ethylbenzene	U		0.50	5.0	ug/L	1	19-Aug-2020 15:16
Toluene	U		0.50	5.0	ug/L	1	19-Aug-2020 15:16
Xylenes, Total	U		0.50	5.0	ug/L	1	19-Aug-2020 15:16
Surr: 1,2-Dichloroethane-d4	88.3			70-126	%REC	1	19-Aug-2020 15:16
Surr: 4-Bromofluorobenzene	97.4			82-124	%REC	1	19-Aug-2020 15:16
Surr: Dibromofluoromethane	91.3			77-123	%REC	1	19-Aug-2020 15:16
Surr: Toluene-d8	106			82-127	%REC	1	19-Aug-2020 15:16

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

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20080737

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R367091 (0)		Test Name : VOLATILES - SW8260C			Matrix: Water	
HS20080737-11	Trip Blank	13 Aug 2020 00:00			19 Aug 2020 15:16	1
Batch ID: R367091 (0)		Test Name : VOLATILES - SW8260C			Matrix: Groundwater	
HS20080737-01	MW-1	13 Aug 2020 13:10			19 Aug 2020 18:53	1
HS20080737-02	MW-2	13 Aug 2020 13:20			19 Aug 2020 19:17	1
Batch ID: R367100 (0)		Test Name : VOLATILES - SW8260C			Matrix: Groundwater	
HS20080737-03	MW-3	13 Aug 2020 12:10			20 Aug 2020 01:41	1
Batch ID: R367188 (0)		Test Name : VOLATILES - SW8260C			Matrix: Groundwater	
HS20080737-05	MW-5	13 Aug 2020 11:30			21 Aug 2020 01:23	1
Batch ID: R367202 (0)		Test Name : VOLATILES - SW8260C			Matrix: Groundwater	
HS20080737-04	MW-4	13 Aug 2020 11:10			21 Aug 2020 03:03	1
HS20080737-06	MW-6	13 Aug 2020 12:05			21 Aug 2020 04:40	1
HS20080737-07	MW-7	13 Aug 2020 14:30			21 Aug 2020 08:44	1
HS20080737-08	MW-8	13 Aug 2020 10:15			21 Aug 2020 09:09	1
HS20080737-09	MW-9	13 Aug 2020 10:05			21 Aug 2020 09:33	1
HS20080737-10	DUP	13 Aug 2020 00:00			21 Aug 2020 09:57	1
Batch ID: R367487 (0)		Test Name : ANIONS BY E300.0			Matrix: Groundwater	
HS20080737-01	MW-1	13 Aug 2020 13:10			25 Aug 2020 12:42	50
HS20080737-02	MW-2	13 Aug 2020 13:20			25 Aug 2020 13:00	10
HS20080737-03	MW-3	13 Aug 2020 12:10			25 Aug 2020 13:54	10
HS20080737-04	MW-4	13 Aug 2020 11:10			25 Aug 2020 14:12	10
HS20080737-05	MW-5	13 Aug 2020 11:30			25 Aug 2020 14:30	50
HS20080737-06	MW-6	13 Aug 2020 12:05			25 Aug 2020 14:48	10
HS20080737-07	MW-7	13 Aug 2020 14:30			25 Aug 2020 15:06	50
HS20080737-08	MW-8	13 Aug 2020 10:15			25 Aug 2020 15:24	10
HS20080737-09	MW-9	13 Aug 2020 10:05			25 Aug 2020 16:18	10
HS20080737-10	DUP	13 Aug 2020 00:00			25 Aug 2020 16:36	50

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20080737

QC BATCH REPORT

Batch ID: R367091 (0)		Instrument: VOA6		Method: VOLATILES - SW8260C					
MBLK	Sample ID: VBLKW-200819	Units: ug/L		Analysis Date: 19-Aug-2020 12:04					
Client ID:	Run ID: VOA6_367091	SeqNo: 5707409		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	5.0							
Ethylbenzene	U	5.0							
Toluene	U	5.0							
Xylenes, Total	U	5.0							
Surr: 1,2-Dichloroethane-d4	43.99	0	50	0	88.0	70 - 130			
Surr: 4-Bromofluorobenzene	47.44	0	50	0	94.9	82 - 115			
Surr: Dibromofluoromethane	46.07	0	50	0	92.1	73 - 126			
Surr: Toluene-d8	53.28	0	50	0	107	81 - 120			

LCS	Sample ID: VLCSW-200819	Units: ug/L		Analysis Date: 19-Aug-2020 11:16					
Client ID:	Run ID: VOA6_367091	SeqNo: 5707408		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	20.63	5.0	20	0	103	74 - 120			
Ethylbenzene	17.87	5.0	20	0	89.3	77 - 117			
Toluene	19.85	5.0	20	0	99.2	77 - 118			
Xylenes, Total	54.12	5.0	60	0	90.2	75 - 122			
Surr: 1,2-Dichloroethane-d4	46.51	0	50	0	93.0	70 - 130			
Surr: 4-Bromofluorobenzene	46.87	0	50	0	93.7	82 - 115			
Surr: Dibromofluoromethane	47.72	0	50	0	95.4	73 - 126			
Surr: Toluene-d8	48.49	0	50	0	97.0	81 - 120			

MS	Sample ID: HS20080738-02MS	Units: ug/L		Analysis Date: 19-Aug-2020 13:40					
Client ID:	Run ID: VOA6_367091	SeqNo: 5707411		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	25.62	5.0	20	0	128	70 - 127			S
Ethylbenzene	26.17	5.0	20	0	131	70 - 124			S
Toluene	26.33	5.0	20	0	132	70 - 123			S
Xylenes, Total	76.99	5.0	60	0	128	70 - 130			
Surr: 1,2-Dichloroethane-d4	44.85	0	50	0	89.7	70 - 126			
Surr: 4-Bromofluorobenzene	47.79	0	50	0	95.6	82 - 124			
Surr: Dibromofluoromethane	46.9	0	50	0	93.8	77 - 123			
Surr: Toluene-d8	52.45	0	50	0	105	82 - 127			

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20080737

QC BATCH REPORT

Batch ID: R367091 (0)		Instrument: VOA6		Method: VOLATILES - SW8260C						
MSD	Sample ID: HS20080738-02MSD	Units: ug/L		Analysis Date: 19-Aug-2020 14:04						
Client ID:	Run ID: VOA6_367091	SeqNo: 5707412		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	24.32	5.0	20	0	122	70 - 127	25.62	5.2	20	
Ethylbenzene	24.84	5.0	20	0	124	70 - 124	26.17	5.23	20	S
Toluene	25	5.0	20	0	125	70 - 123	26.33	5.2	20	S
Xylenes, Total	74.29	5.0	60	0	124	70 - 130	76.99	3.57	20	
Surr: 1,2-Dichloroethane-d4	44.24	0	50	0	88.5	70 - 126	44.85	1.39	20	
Surr: 4-Bromofluorobenzene	47.89	0	50	0	95.8	82 - 124	47.79	0.215	20	
Surr: Dibromofluoromethane	46.05	0	50	0	92.1	77 - 123	46.9	1.83	20	
Surr: Toluene-d8	52.62	0	50	0	105	82 - 127	52.45	0.326	20	
The following samples were analyzed in this batch: HS20080737-01 HS20080737-02 HS20080737-11										

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20080737

QC BATCH REPORT

Batch ID: R367100 (0)		Instrument: VOA6		Method: VOLATILES - SW8260C					
MBLK	Sample ID: VBLKW-200819	Units: ug/L		Analysis Date: 20-Aug-2020 00:29					
Client ID:	Run ID: VOA6_367100	SeqNo: 5707829		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	U	5.0							
Ethylbenzene	U	5.0							
Toluene	U	5.0							
Xylenes, Total	U	5.0							
Surr: 1,2-Dichloroethane-d4	43.53	0	50	0	87.1	70 - 130			
Surr: 4-Bromofluorobenzene	48.75	0	50	0	97.5	82 - 115			
Surr: Dibromofluoromethane	46.01	0	50	0	92.0	73 - 126			
Surr: Toluene-d8	53.63	0	50	0	107	81 - 120			

LCS	Sample ID: VLCSW-200819	Units: ug/L		Analysis Date: 19-Aug-2020 23:41					
Client ID:	Run ID: VOA6_367100	SeqNo: 5707828		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	19.75	5.0	20	0	98.7	74 - 120			
Ethylbenzene	18.51	5.0	20	0	92.5	77 - 117			
Toluene	19.59	5.0	20	0	97.9	77 - 118			
Xylenes, Total	56.11	5.0	60	0	93.5	75 - 122			
Surr: 1,2-Dichloroethane-d4	50.22	0	50	0	100	70 - 130			
Surr: 4-Bromofluorobenzene	48.63	0	50	0	97.3	82 - 115			
Surr: Dibromofluoromethane	51.01	0	50	0	102	73 - 126			
Surr: Toluene-d8	50.9	0	50	0	102	81 - 120			

MS	Sample ID: HS20080737-03MS	Units: ug/L		Analysis Date: 20-Aug-2020 02:29					
Client ID: MW-3	Run ID: VOA6_367100	SeqNo: 5707831		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	23.52	5.0	20	0	118	70 - 127			
Ethylbenzene	24.53	5.0	20	0	123	70 - 124			
Toluene	23.87	5.0	20	0	119	70 - 123			
Xylenes, Total	73.37	5.0	60	0	122	70 - 130			
Surr: 1,2-Dichloroethane-d4	43.29	0	50	0	86.6	70 - 126			
Surr: 4-Bromofluorobenzene	48.18	0	50	0	96.4	82 - 124			
Surr: Dibromofluoromethane	46.16	0	50	0	92.3	77 - 123			
Surr: Toluene-d8	52.43	0	50	0	105	82 - 127			

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20080737

QC BATCH REPORT

Batch ID: R367100 (0)		Instrument: VOA6		Method: VOLATILES - SW8260C					
MSD		Sample ID: HS20080737-03MSD		Units: ug/L		Analysis Date: 20-Aug-2020 02:53			
Client ID: MW-3		Run ID: VOA6_367100		SeqNo: 5707832		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	22.56	5.0	20	0	113	70 - 127	23.52	4.18	20
Ethylbenzene	23.13	5.0	20	0	116	70 - 124	24.53	5.88	20
Toluene	23.22	5.0	20	0	116	70 - 123	23.87	2.76	20
Xylenes, Total	69.09	5.0	60	0	115	70 - 130	73.37	6	20
Surr: 1,2-Dichloroethane-d4	42.77	0	50	0	85.5	70 - 126	43.29	1.19	20
Surr: 4-Bromofluorobenzene	47.42	0	50	0	94.8	82 - 124	48.18	1.59	20
Surr: Dibromofluoromethane	46.52	0	50	0	93.0	77 - 123	46.16	0.782	20
Surr: Toluene-d8	52.09	0	50	0	104	82 - 127	52.43	0.647	20

The following samples were analyzed in this batch: HS20080737-03

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20080737

QC BATCH REPORT

Batch ID: R367188 (0)		Instrument: VOA6		Method: VOLATILES - SW8260C					
MBLK	Sample ID: VBLKW-200820	Units: ug/L		Analysis Date: 21-Aug-2020 00:58					
Client ID:	Run ID: VOA6_367188	SeqNo: 5709517		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	U	5.0							
Ethylbenzene	U	5.0							
Toluene	U	5.0							
Xylenes, Total	U	5.0							
Surr: 1,2-Dichloroethane-d4	43.31	0	50	0	86.6	70 - 130			
Surr: 4-Bromofluorobenzene	48.57	0	50	0	97.1	82 - 115			
Surr: Dibromofluoromethane	46.08	0	50	0	92.2	73 - 126			
Surr: Toluene-d8	53.14	0	50	0	106	81 - 120			

LCS	Sample ID: VLCSW-200820	Units: ug/L		Analysis Date: 21-Aug-2020 00:10					
Client ID:	Run ID: VOA6_367188	SeqNo: 5709516		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	20.36	5.0	20	0	102	74 - 120			
Ethylbenzene	19.18	5.0	20	0	95.9	77 - 117			
Toluene	20.19	5.0	20	0	101	77 - 118			
Xylenes, Total	58.45	5.0	60	0	97.4	75 - 122			
Surr: 1,2-Dichloroethane-d4	49.93	0	50	0	99.9	70 - 130			
Surr: 4-Bromofluorobenzene	48.92	0	50	0	97.8	82 - 115			
Surr: Dibromofluoromethane	50.91	0	50	0	102	73 - 126			
Surr: Toluene-d8	51.79	0	50	0	104	81 - 120			

MS	Sample ID: HS20080737-05MS	Units: ug/L		Analysis Date: 21-Aug-2020 02:11					
Client ID: MW-5	Run ID: VOA6_367188	SeqNo: 5709519		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	23.11	5.0	20	0	116	70 - 127			
Ethylbenzene	22.69	5.0	20	0	113	70 - 124			
Toluene	23.29	5.0	20	0	116	70 - 123			
Xylenes, Total	66.9	5.0	60	0	112	70 - 130			
Surr: 1,2-Dichloroethane-d4	43.48	0	50	0	87.0	70 - 126			
Surr: 4-Bromofluorobenzene	47.67	0	50	0	95.3	82 - 124			
Surr: Dibromofluoromethane	46.55	0	50	0	93.1	77 - 123			
Surr: Toluene-d8	52.04	0	50	0	104	82 - 127			

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20080737

QC BATCH REPORT

Batch ID: R367188 (0)		Instrument: VOA6		Method: VOLATILES - SW8260C					
MSD		Sample ID: HS20080737-05MSD		Units: ug/L		Analysis Date: 21-Aug-2020 02:35			
Client ID: MW-5		Run ID: VOA6_367188		SeqNo: 5709520		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	22.16	5.0	20	0	111	70 - 127	23.11	4.19	20
Ethylbenzene	21.91	5.0	20	0	110	70 - 124	22.69	3.51	20
Toluene	22.88	5.0	20	0	114	70 - 123	23.29	1.75	20
Xylenes, Total	65.49	5.0	60	0	109	70 - 130	66.9	2.13	20
Surr: 1,2-Dichloroethane-d4	43.59	0	50	0	87.2	70 - 126	43.48	0.251	20
Surr: 4-Bromofluorobenzene	47.24	0	50	0	94.5	82 - 124	47.67	0.91	20
Surr: Dibromofluoromethane	46.52	0	50	0	93.0	77 - 123	46.55	0.0627	20
Surr: Toluene-d8	52.41	0	50	0	105	82 - 127	52.04	0.716	20

The following samples were analyzed in this batch: HS20080737-05

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20080737

QC BATCH REPORT

Batch ID: R367202 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C					
MBLK	Sample ID: VBLKW-200820	Units: ug/L		Analysis Date: 21-Aug-2020 01:00					
Client ID:	Run ID: VOA9_367202	SeqNo: 5709702		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	U	5.0							
Ethylbenzene	U	5.0							
Toluene	U	5.0							
Xylenes, Total	U	5.0							
Surr: 1,2-Dichloroethane-d4	46.02	0	50	0	92.0	70 - 130			
Surr: 4-Bromofluorobenzene	46.99	0	50	0	94.0	82 - 115			
Surr: Dibromofluoromethane	49.37	0	50	0	98.7	73 - 126			
Surr: Toluene-d8	49.6	0	50	0	99.2	81 - 120			

LCS	Sample ID: VLCSW-200820	Units: ug/L		Analysis Date: 21-Aug-2020 00:12					
Client ID:	Run ID: VOA9_367202	SeqNo: 5709701		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	19.88	5.0	20	0	99.4	74 - 120			
Ethylbenzene	19.79	5.0	20	0	99.0	77 - 117			
Toluene	19.34	5.0	20	0	96.7	77 - 118			
Xylenes, Total	60.35	5.0	60	0	101	75 - 122			
Surr: 1,2-Dichloroethane-d4	45.72	0	50	0	91.4	70 - 130			
Surr: 4-Bromofluorobenzene	50.55	0	50	0	101	82 - 115			
Surr: Dibromofluoromethane	50.01	0	50	0	100	73 - 126			
Surr: Toluene-d8	50.09	0	50	0	100	81 - 120			

MS	Sample ID: HS20080737-04MS	Units: ug/L		Analysis Date: 21-Aug-2020 03:51					
Client ID: MW-4	Run ID: VOA9_367202	SeqNo: 5709704		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	20.67	5.0	20	0	103	70 - 127			
Ethylbenzene	20.34	5.0	20	0	102	70 - 124			
Toluene	20.31	5.0	20	0	102	70 - 123			
Xylenes, Total	63.59	5.0	60	0	106	70 - 130			
Surr: 1,2-Dichloroethane-d4	46.06	0	50	0	92.1	70 - 126			
Surr: 4-Bromofluorobenzene	49.54	0	50	0	99.1	82 - 124			
Surr: Dibromofluoromethane	48.76	0	50	0	97.5	77 - 123			
Surr: Toluene-d8	49.89	0	50	0	99.8	82 - 127			

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20080737

QC BATCH REPORT

Batch ID: R367202 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C					
MSD		Sample ID: HS20080737-04MSD		Units: ug/L		Analysis Date: 21-Aug-2020 04:16			
Client ID: MW-4		Run ID: VOA9_367202		SeqNo: 5709705		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	20.3	5.0	20	0	101	70 - 127	20.67	1.82	20
Ethylbenzene	19.97	5.0	20	0	99.8	70 - 124	20.34	1.85	20
Toluene	19.91	5.0	20	0	99.5	70 - 123	20.31	1.98	20
Xylenes, Total	61.54	5.0	60	0	103	70 - 130	63.59	3.27	20
Surr: 1,2-Dichloroethane-d4	45.67	0	50	0	91.3	70 - 126	46.06	0.85	20
Surr: 4-Bromofluorobenzene	50.21	0	50	0	100	82 - 124	49.54	1.35	20
Surr: Dibromofluoromethane	48.75	0	50	0	97.5	77 - 123	48.76	0.00553	20
Surr: Toluene-d8	50.06	0	50	0	100	82 - 127	49.89	0.349	20
The following samples were analyzed in this batch:		HS20080737-04		HS20080737-06		HS20080737-07		HS20080737-08	
		HS20080737-09		HS20080737-10					

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20080737

QC BATCH REPORT

Batch ID: R367487 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0					
MBLK	Sample ID: MBLK-082520	Units: mg/L		Analysis Date: 25-Aug-2020 09:59					
Client ID:	Run ID: ICS-Integrion_367487	SeqNo: 5715904		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	U	0.500							
LCS	Sample ID: LCS-082520	Units: mg/L		Analysis Date: 25-Aug-2020 10:17					
Client ID:	Run ID: ICS-Integrion_367487	SeqNo: 5715905		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	19.41	0.500	20	0	97.0	90 - 110			
MS	Sample ID: HS20081070-02MS	Units: mg/L		Analysis Date: 25-Aug-2020 18:06					
Client ID:	Run ID: ICS-Integrion_367487	SeqNo: 5715927		PrepDate:		DF: 2			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	1873	1.00	20	1881	-40.5	80 - 120			SEO
MS	Sample ID: HS20080737-02MS	Units: mg/L		Analysis Date: 25-Aug-2020 13:18					
Client ID: MW-2	Run ID: ICS-Integrion_367487	SeqNo: 5715912		PrepDate:		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	279.4	5.00	100	189.8	89.6	80 - 120			
MSD	Sample ID: HS20081070-02MSD	Units: mg/L		Analysis Date: 25-Aug-2020 18:25					
Client ID:	Run ID: ICS-Integrion_367487	SeqNo: 5715928		PrepDate:		DF: 2			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	1879	1.00	20	1881	-8.27	80 - 120	1873	0.344	20 SEO
MSD	Sample ID: HS20080737-02MSD	Units: mg/L		Analysis Date: 25-Aug-2020 13:36					
Client ID: MW-2	Run ID: ICS-Integrion_367487	SeqNo: 5715913		PrepDate:		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	280.3	5.00	100	189.8	90.5	80 - 120	279.4	0.322	20
The following samples were analyzed in this batch:									
HS20080737-01		HS20080737-02		HS20080737-03		HS20080737-04			
HS20080737-05		HS20080737-06		HS20080737-07		HS20080737-08			
HS20080737-09		HS20080737-10							

ALS Houston, US

Date: 27-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20080737

**QUALIFIERS,
ACRONYMS, UNITS**

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

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

Unit Reported	Description
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

ALS Houston, US

Date: 27-Aug-20

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
California	2919, 2020-2021	30-Apr-2021
Dept of Defense	ANAB L2231 V010	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Illinois	2000322020-4	09-May-2021
Kentucky	123043, 2020-2021	30-Apr-2021
Louisiana	03087, 2020-2021	30-Jun-2021
Maryland	343, 2019-2020	30-Sep-2020
North Carolina	624-2020	31-Dec-2020
North Dakota	R-193 2020-2021	30-Apr-2021
Oklahoma	2019-141	31-Aug-2020
Texas	T104704231-20-26	30-Apr-2021

ALS Houston, US

Date: 27-Aug-20

Sample Receipt Checklist

Work Order ID: HS20080737

Date/Time Received: 18-Aug-2020 09:50

Client Name: Glen Springs/CRA

Received by: Jared R. Makan

Completed By: /S/ Niles D. Ranchod

18-Aug-2020 18:12

Reviewed by: /S/ Dane J. Wacasey

19-Aug-2020 18:27

eSignature

Date/Time

eSignature

Date/Time

Matrices: WaterCarrier name: FedEx Priority Overnight

Shipping container/cooler in good condition?

Yes ☒No ☐Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒No ☐Not Present ☐

Custody seals intact on sample bottles?

Yes ☐No ☐Not Present ☒

VOA/TX1005/TX1006 Solids in hermetically sealed vials?

Yes ☐No ☐Not Present ☒

Chain of custody present?

Yes ☒No ☐

1 Page(s)

Chain of custody signed when relinquished and received?

Yes ☒No ☐

COC IDs:225068/225067

Samplers name present on COC?

Yes ☒No ☐

Chain of custody agrees with sample labels?

Yes ☐No ☒

Samples in proper container/bottle?

Yes ☒No ☐

Sample containers intact?

Yes ☐No ☒

Sufficient sample volume for indicated test?

Yes ☒No ☐

All samples received within holding time?

Yes ☒No ☐

Container/Temp Blank temperature in compliance?

Yes ☒No ☐

Temperature(s)/Thermometer(s):

1.2°C UC/C

IR # 31

Cooler(s)/Kit(s):

45713

Date/Time sample(s) sent to storage:

08/18/2020 19:00

Water - VOA vials have zero headspace?

Yes ☒No ☐No VOA vials submitted ☐

Water - pH acceptable upon receipt?

Yes ☐No ☒N/A ☐

pH adjusted?

Yes ☐No ☒N/A ☐

pH adjusted by:

Login Notes:

MW-5: 1 of 3 Vials Broken. No collection times on COC. Labels = MW-1 13:10, MW-2 13:20, MW-3 12:10, MW-4 11:20, MW-5 11:30, MW-6 12:05, MW-7 14:30, MW-8 10:15, & MW-9 10:05.

Sample MW-4 Received for 55628 PXP Hill EC ABC TB separate WO: HS20080614

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

Cincinnati, OH
+1 513 733 5336Everett, WA
+1 425 356 2600Fort Collins, CO
+1 970 490 1511Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 1 of 2

COC ID: 225068

HS20080737

Glenn Springs Holdings, Inc.
55627DM GSHI PXP Hill E.C. Federal #7 TB

WV



Customer Information			Project Information			ALS Project Manager:												
Purchase Order	4502201559 ENV749-402-D02-1100		Project Name	55627DM GSHI PXP Hill E.C. Federal #7 TB		A	8260_W (8260 BTEX)											
Work Order			Project Number	55627DM		B	300_W (300 Chloride)											
Company Name	Glenn Springs Holdings, Inc.		Bill To Company	Glenn Springs Holdings, Inc.		C	8260_W (8260 BTEX-Trip Blank)											
Send Report To	Mike Carmona		Invoice Attn	Accounts Payable		D												
Address	PO Box 2148		Address	PO Box 2148		E												
						F												
City/State/Zip	Houston, TX 77252-2148		City/State/Zip	Houston TX 77252-2148		G												
Phone			Phone			H												
Fax			Fax			I												
e-Mail Address	Mike.Carmona@tetratech.com		e-Mail Address	Chem_GSH@oxy.com		J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1	8-13-20		Groundwa	1,8	4	X	X									
2	MW-2	8-13-20		Groundwa	1,8	4	X	X									
3	MW-3	8-13-20		Groundwa	1,8	4	X	X									
4	MW-4	8-13-20		Groundwa	1,8	4	X	X									
5	MW-5	8-13-20		Groundwa	1,8	4	X	X									
6	MW-6	8-13-20		Groundwa	1,8	4	X	X									
7	MW-7	8-13-20		Groundwa	1,8	4	X	X									
8	MW-8	8-13-20		Groundwa	1,8	4	X	X									
9	MW-9	8-13-20		Groundwa	1,8	4	X	X									
10	DUP	8-13-20		Groundwa	1,8	4	X	X									

Sampler(s) Please Print & Sign <i>Preston B. Bant</i>		Shipment Method FedEx		Required Turnaround Time: (Check Box) ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour				Results Due Date:	
Relinquished by: <i>[Signature]</i>		Date: 8-17-20	Time: 1600	Received by:		Notes: [GSHI PXP Hill EC Federal 7 TB]			
Relinquished by:		Date: 8/18/20	Time: 09:50	Received by (Laboratory): <i>J. M. [Signature]</i>		Cooler ID 45713	Cooler Temp. 1.2°C	QC Package: (Check One Box Below)	
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):				☒ Level II Std QC ☐ TRRP Checklist ☐ Level III Std QC/Raw Date ☐ TRRP Level IV ☐ Level IV SW846/CLP ☐ Other	

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

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

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Cincinnati, OH
+1 513 733 5336Fort Collins, CO
+1 970 490 1511Everett, WA
+1 425 356 2600Holland, MI
+1 616 399 6070

Chain of Custody Form

HS20080737

i, WV

Page 2 of 2

COC ID: 225067

Glenn Springs Holdings, Inc.
55627DM GSHI PXP Hill E.C. Federal #7 TB

Customer Information		Project Information		ALS Project Manager:	
Purchase Order	4502201559 ENV749-402-D02-1100	Project Name	55627DM GSHI PXP Hill E.C. Federal #7 TB	A	8260_W (8260 BTEX)
Work Order		Project Number	55627DM	B	300_W (300 Chloride)
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.	C	8260_W (8260 BTEX-Trip Blank)
Send Report To	Mike Carmona	Invoice Attn	Accounts Payable	D	
Address	PO Box 2148	Address	PO Box 2148	E	
				F	
				G	
City/State/Zip	Houston, TX 77252-2148	City/State/Zip	Houston TX 77252-2148	H	
Phone		Phone		I	
Fax		Fax		J	
e-Mail Address	Mike.Carmona@tetratech.com	e-Mail Address	Chem_GSH@oxy.com		

Vo.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Trip Blank			Water	1,8	2			X								
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
0																	

Sampler(s) Please Print & Sign <i>Preston Poitevent</i>		Shipment Method FedEx		Required Turnaround Time: (Check Box) ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour		Results Due Date:	
Relinquished by: <i>Mike Carmona</i>		Date: 8-17-20	Time: 1600	Received by:		Notes: [GSHI PXP Hill EC Federal 7 TB]	
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler ID	
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		Cooler Temp.	
Reservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035				QC Package: (Check One Box Below)			
				☒ Level II Std OC ☐ Level III Std QC/Raw Date ☐ Level IV SWB4B/CLP ☐ Other			
				☐ TRRP Checklist ☐ TRRP Level IV			

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

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 ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: <i>SM</i>
	Date: <i>8-12-20</i>	Time: <i>1600</i>	Date: <i>08/18/20</i>
	Name: <i>Tristan R. Stewart</i>		
	Company: <i>TE</i>		

45713 AUG 18 2020



Must Deliver Next Business Day
Time and Temperature Sensitive!

45713

ORIGIN ID: SGRA (432) 682-4559
 MIKE CARMONA
 GSHI TETRA TECH
 901 WEST WALL ST
 SUITE 100
 MIDLAND, TX 79701
 UNITED STATES US

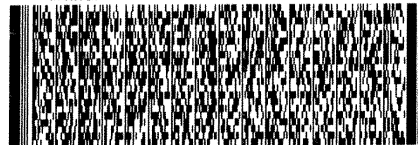
SHIP DATE: 06AUG20
 ACTWGT: 1.00 LB MAN
 CAD: 300130/CAFE3211
 DIMS: 26x14x14 IN

TO **CLIENT SERVICES**
ALS LABORATORY GROUP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON TX 77099

(281) 630-6666

REF: #7TB-BQ 73206-DW

RMA: 11111111

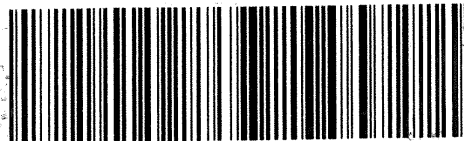
FedEx
Express

FedEx
 TRK# 1891 8879 0521
 0221

TUE - 18 AUG 10:30A
 PRIORITY OVERNIGHT

AB SGRA

77099
 TX-US IAH



#3785566 08/17 56BJ2/7709/8766



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

August 31, 2020

Mike Carmona
Glenn Springs Holdings, Inc.
PO Box 2148
Houston, TX 77252-2148

Work Order: **HS20081161**

Laboratory Results for: **55627DM GSHI PXP Hill E.C. Federal #7 TB**

Dear Mike Carmona,

ALS Environmental received 7 sample(s) on Aug 26, 2020 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,

Generated By: DANE.WACASEY

Dane J. Wacasey

ALS Houston, US

Date: 31-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS20081161

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20081161-01	MW-7 - 1	Groundwater		17-Aug-2020 10:00	26-Aug-2020 10:00	☐
HS20081161-02	MW-7 - 2	Groundwater		17-Aug-2020 10:45	26-Aug-2020 10:00	☐
HS20081161-03	MW-7 - 3	Groundwater		17-Aug-2020 11:35	26-Aug-2020 10:00	☐
HS20081161-04	MW-7 - 4	Groundwater		17-Aug-2020 12:13	26-Aug-2020 10:00	☐
HS20081161-05	MW-7 - 5	Groundwater		17-Aug-2020 13:00	26-Aug-2020 10:00	☐
HS20081161-06	MW-7 - 6	Groundwater		17-Aug-2020 13:45	26-Aug-2020 10:00	☐
HS20081161-07	DUP	Groundwater		17-Aug-2020 00:00	26-Aug-2020 10:00	☐

ALS Houston, US

Date: 31-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS20081161

CASE NARRATIVE

WetChemistry by Method E300

Batch ID: R367720

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

ALS Houston, US

Date: 31-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 1
Collection Date: 17-Aug-2020 10:00

ANALYTICAL REPORT

WorkOrder:HS20081161
Lab ID:HS20081161-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	836		10.0	25.0	mg/L	50	29-Aug-2020 13:27

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

ALS Houston, US

Date: 31-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 2
Collection Date: 17-Aug-2020 10:45

ANALYTICAL REPORT

WorkOrder:HS20081161
Lab ID:HS20081161-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	813		10.0	25.0	mg/L	50	29-Aug-2020 13:45

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

ALS Houston, US

Date: 31-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 3
Collection Date: 17-Aug-2020 11:35

ANALYTICAL REPORT

WorkOrder:HS20081161
Lab ID:HS20081161-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	Method:E300						Analyst: YP
Chloride	854		10.0	25.0	mg/L	50	29-Aug-2020 14:39

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

ALS Houston, US

Date: 31-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 4
Collection Date: 17-Aug-2020 12:13

ANALYTICAL REPORT

WorkOrder:HS20081161
Lab ID:HS20081161-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	918		10.0	25.0	mg/L	50	29-Aug-2020 14:57

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

ALS Houston, US

Date: 31-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 5
Collection Date: 17-Aug-2020 13:00

ANALYTICAL REPORT

WorkOrder:HS20081161
Lab ID:HS20081161-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		Method:E300		Analyst: YP			
Chloride	943		10.0	25.0	mg/L	50	29-Aug-2020 15:51

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

ALS Houston, US

Date: 31-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 6
Collection Date: 17-Aug-2020 13:45

ANALYTICAL REPORT

WorkOrder:HS20081161
Lab ID:HS20081161-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	Method:E300						Analyst: YP
Chloride	970		10.0	25.0	mg/L	50	29-Aug-2020 16:09

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

ALS Houston, US

Date: 31-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: DUP
Collection Date: 17-Aug-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20081161
Lab ID:HS20081161-07
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	Method:E300						Analyst: YP
Chloride	949		10.0	25.0	mg/L	50	29-Aug-2020 16:27

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

ALS Houston, US

Date: 31-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20081161

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R367720 (0)		Test Name : ANIONS BY E300.0			Matrix: Groundwater	
HS20081161-01	MW-7 - 1	17 Aug 2020 10:00			29 Aug 2020 13:27	50
HS20081161-02	MW-7 - 2	17 Aug 2020 10:45			29 Aug 2020 13:45	50
HS20081161-03	MW-7 - 3	17 Aug 2020 11:35			29 Aug 2020 14:39	50
HS20081161-04	MW-7 - 4	17 Aug 2020 12:13			29 Aug 2020 14:57	50
HS20081161-05	MW-7 - 5	17 Aug 2020 13:00			29 Aug 2020 15:51	50
HS20081161-06	MW-7 - 6	17 Aug 2020 13:45			29 Aug 2020 16:09	50
HS20081161-07	DUP	17 Aug 2020 00:00			29 Aug 2020 16:27	50

ALS Houston, US

Date: 31-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20081161

QC BATCH REPORT

Batch ID: R367720 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0					
MBLK	Sample ID: MBLK-082820	Units: mg/L			Analysis Date: 28-Aug-2020 12:04				
Client ID:	Run ID: ICS-Integrion_367720	SeqNo: 5720630		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	U	0.500							
LCS	Sample ID: LCS-082820	Units: mg/L			Analysis Date: 28-Aug-2020 12:22				
Client ID:	Run ID: ICS-Integrion_367720	SeqNo: 5720631		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	19.36	0.500	20	0	96.8	90 - 110			
MS	Sample ID: HS20081161-04MS	Units: mg/L			Analysis Date: 29-Aug-2020 15:15				
Client ID: MW-7 - 4	Run ID: ICS-Integrion_367720	SeqNo: 5720658		PrepDate:		DF: 50			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	1476	25.0	500	918.4	112	80 - 120			
MS	Sample ID: HS20081002-07MS	Units: mg/L			Analysis Date: 29-Aug-2020 12:15				
Client ID:	Run ID: ICS-Integrion_367720	SeqNo: 5720648		PrepDate:		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	179.2	5.00	100	83.35	95.8	80 - 120			
MSD	Sample ID: HS20081161-04MSD	Units: mg/L			Analysis Date: 29-Aug-2020 15:33				
Client ID: MW-7 - 4	Run ID: ICS-Integrion_367720	SeqNo: 5720659		PrepDate:		DF: 50			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	1410	25.0	500	918.4	98.2	80 - 120	1476	4.62	20
MSD	Sample ID: HS20081002-07MSD	Units: mg/L			Analysis Date: 29-Aug-2020 12:33				
Client ID:	Run ID: ICS-Integrion_367720	SeqNo: 5720649		PrepDate:		DF: 10			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	179.6	5.00	100	83.35	96.3	80 - 120	179.2	0.273	20
The following samples were analyzed in this batch:									
HS20081161-01		HS20081161-02		HS20081161-03		HS20081161-04			
HS20081161-05		HS20081161-06		HS20081161-07					

ALS Houston, US

Date: 31-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20081161

**QUALIFIERS,
ACRONYMS, UNITS**

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

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

Unit Reported	Description
mg/L	Milligrams per Liter

ALS Houston, US

Date: 31-Aug-20

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
California	2919, 2020-2021	30-Apr-2021
Dept of Defense	ANAB L2231 V010	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Illinois	2000322020-4	09-May-2021
Kentucky	123043, 2020-2021	30-Apr-2021
Louisiana	03087, 2020-2021	30-Jun-2021
Maryland	343, 2019-2020	30-Sep-2020
North Carolina	624-2020	31-Dec-2020
North Dakota	R-193 2020-2021	30-Apr-2021
Texas	T104704231-20-26	30-Apr-2021

ALS Houston, US

Date: 31-Aug-20

Sample Receipt Checklist

Work Order ID: HS20081161

Date/Time Received: 26-Aug-2020 10:00

Client Name: Glen Springs/CRA

Received by: Paresh M. Giga

Completed By: <u>/S/ Jared R. Makan</u>	26-Aug-2020 16:46	Reviewed by: <u>/S/ Dane J. Wacasey</u>	31-Aug-2020 17:57
eSignature	Date/Time	eSignature	Date/Time

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

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Samplers name present on COC?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	

Temperature(s)/Thermometer(s):

1.2°C/1.2°C UC/C IR31

Cooler(s)/Kit(s):

Red

Date/Time sample(s) sent to storage:

08/26/2020 16:50

Water - VOA vials have zero headspace?

Yes ☐ No ☐ No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐ No ☐ N/A ☒

pH adjusted?

Yes ☐ No ☐ N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:



☒ ALS Laboratory Group
 10450 Stancliff Rd. #210
 Houston, Texas 77099
 (Tel) 281.530.5656
 (Fax) 281.530.5887

Chain of Custody Form

Page 1 of 1

Glenn Springs Holdings, Inc.
 55627DM GSHI PXP Hill E.C. Federal #7 TB



ALS Project Manager:

Customer Information		Project Information					Parameter/Method Request for Analysis											
Purchase Order		Project Name	55627DM GSHIPXP Hill E.C. Federal #7				A	300_W (Chloride)										
Work Order		Project Number					B											
Company Name	Glenn Springs Holdings, Inc	Bill To Company	Glenn Springs Holdings, Inc				C											
Send Report To	Mike Carmona	Invoice Attn.	AP				D											
Address	PO BOX 2148	Address	PO BOX 2148			E												
						F												
City/State/Zip	Houston, TX 77252-2148	City/State/Zip	Houston, TX 77252-2148			G												
Phone		Phone				H												
Fax		Fax				I												
e-Mail Address	Mike.Carmona@tetratech.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-7 - 1	8/17/20	10:00	GW	8	1	X											
2	MW-7 - 2	8/17/20	10:45	GW	8	1	X											
3	MW-7 - 3	8/17/20	11:35	GW	8	1	X											
4	MW-7 - 4	8/17/20	12:13	GW	8	1	X											
5	MW-7 - 5	8/17/20	13:00	GW	8	1	X											
6	MW-7 - 6	8/17/20	13:45	GW	8	1	X											
7	DUP			GW	8	1	X											
8																		
9																		
10																		
Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:			Other			Results Due Date:								
Matthew Castrejon				☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour														
Relinquished by:	Date:	Time:	Received by:	Notes: GSHI PXP Hill EC Federal 7 TB														
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler Temp. 51C														
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	QC Package: (Check Box Below) ☒ Level II: Standard QC ☐ Level III: Std QC + Raw Data ☐ Level IV: SW846 CLP-Like ☐ TRRP-Checklist ☐ TRRP Level IV														
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035				Other:														

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.

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	ALS	
	10450 Stancliff Rd., Suite 210	
	Houston, Texas 77099	Date: <u>8/28</u>
	Tel. +1 281 530 5656	Name: <u>John Tech</u>
	Fax. +1 281 530 5887	Company:

CUSTODY SEAL		Seal Brk
<u>25-20</u>	Time: <u>1630</u>	<u>8/28</u>
<u>John Tech</u>		



TRK# 1891 8879 5604

RETURNS MON-SAT
PRIORITY OVERNIGHT

77099

TX-US





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

December 04, 2020

Mike Carmona
Glenn Springs Holdings, Inc.
PO Box 2148
Houston, TX 77252-2148

Work Order: **HS20111013**

Laboratory Results for: **55627DM GSHI PXP Hill E.C. Federal #7 TB**

Dear Mike Carmona,

ALS Environmental received 6 sample(s) on Nov 19, 2020 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,

Generated By: JUMOKE.LAWAL

Dane J. Wacasey

ALS Houston, US

Date: 04-Dec-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS20111013

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20111013-01	MW-7 - 1	Groundwater		17-Nov-2020 10:35	19-Nov-2020 09:55	☐
HS20111013-02	MW-7 - 2	Groundwater		17-Nov-2020 11:40	19-Nov-2020 09:55	☐
HS20111013-03	MW-7 - 3	Groundwater		17-Nov-2020 12:40	19-Nov-2020 09:55	☐
HS20111013-04	MW-7 - 4	Groundwater		17-Nov-2020 13:35	19-Nov-2020 09:55	☐
HS20111013-05	MW-7 - 5	Groundwater		17-Nov-2020 14:30	19-Nov-2020 09:55	☐
HS20111013-06	MW-7 - 6	Groundwater		17-Nov-2020 15:25	19-Nov-2020 09:55	☐

ALS Houston, US

Date: 04-Dec-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS20111013

CASE NARRATIVE

WetChemistry by Method E300

Batch ID: R373967

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

ALS Houston, US

Date: 04-Dec-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 1
Collection Date: 17-Nov-2020 10:35

ANALYTICAL REPORT

WorkOrder:HS20111013
Lab ID:HS20111013-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		Method:E300					Analyst: YP
Chloride	1,180		20.0	50.0	mg/L	100	03-Dec-2020 21:26

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

ALS Houston, US

Date: 04-Dec-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 2
Collection Date: 17-Nov-2020 11:40

ANALYTICAL REPORT

WorkOrder:HS20111013
Lab ID:HS20111013-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	1,070		20.0	50.0	mg/L	100	03-Dec-2020 21:44

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

ALS Houston, US

Date: 04-Dec-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 3
Collection Date: 17-Nov-2020 12:40

ANALYTICAL REPORT

WorkOrder:HS20111013
Lab ID:HS20111013-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	Method:E300						Analyst: YP
Chloride	1,020		10.0	25.0	mg/L	50	03-Dec-2020 22:38

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

ALS Houston, US

Date: 04-Dec-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 4
Collection Date: 17-Nov-2020 13:35

ANALYTICAL REPORT

WorkOrder:HS20111013
Lab ID:HS20111013-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	Method:E300						Analyst: YP
Chloride	1,000		10.0	25.0	mg/L	50	03-Dec-2020 23:32

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

ALS Houston, US

Date: 04-Dec-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 5
Collection Date: 17-Nov-2020 14:30

ANALYTICAL REPORT

WorkOrder:HS20111013
Lab ID:HS20111013-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		Method:E300		Analyst: YP			
Chloride	895		10.0	25.0	mg/L	50	03-Dec-2020 23:51

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

ALS Houston, US

Date: 04-Dec-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 6
Collection Date: 17-Nov-2020 15:25

ANALYTICAL REPORT

WorkOrder:HS20111013
Lab ID:HS20111013-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	746		10.0	25.0	mg/L	50	04-Dec-2020 00:09

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

ALS Houston, US

Date: 04-Dec-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20111013

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R373967 (0)		Test Name : ANIONS BY E300.0			Matrix: Groundwater	
HS20111013-01	MW-7 - 1	17 Nov 2020 10:35			03 Dec 2020 21:26	100
HS20111013-02	MW-7 - 2	17 Nov 2020 11:40			03 Dec 2020 21:44	100
HS20111013-03	MW-7 - 3	17 Nov 2020 12:40			03 Dec 2020 22:38	50
HS20111013-04	MW-7 - 4	17 Nov 2020 13:35			03 Dec 2020 23:32	50
HS20111013-05	MW-7 - 5	17 Nov 2020 14:30			03 Dec 2020 23:51	50
HS20111013-06	MW-7 - 6	17 Nov 2020 15:25			04 Dec 2020 00:09	50

ALS Houston, US

Date: 04-Dec-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20111013

QC BATCH REPORT

Batch ID: R373967 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0					
MBLK	Sample ID: MBLK-120320	Units: mg/L		Analysis Date: 03-Dec-2020 13:14					
Client ID:	Run ID: ICS-Integrion_373967		SeqNo: 5864052		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	U	0.500							
LCS	Sample ID: LCS-120320	Units: mg/L		Analysis Date: 03-Dec-2020 13:32					
Client ID:	Run ID: ICS-Integrion_373967		SeqNo: 5864053		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	19.26	0.500	20	0	96.3	90 - 110			
MS	Sample ID: HS20120145-04MS	Units: mg/L		Analysis Date: 03-Dec-2020 19:55					
Client ID:	Run ID: ICS-Integrion_373967		SeqNo: 5864063		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	13.96	0.500	10	3.746	102	80 - 120			
MS	Sample ID: HS20111013-02MS	Units: mg/L		Analysis Date: 03-Dec-2020 22:02					
Client ID: MW-7 - 2	Run ID: ICS-Integrion_373967		SeqNo: 5864070		PrepDate:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	2014	50.0	1000	1070	94.4	80 - 120			
MS	Sample ID: HS20110726-03MS	Units: mg/L		Analysis Date: 04-Dec-2020 05:17					
Client ID:	Run ID: ICS-Integrion_373967		SeqNo: 5864081		PrepDate:		DF: 200		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	6573	100	2000	4754	91.0	80 - 120			
MSD	Sample ID: HS20120145-04MSD	Units: mg/L		Analysis Date: 03-Dec-2020 20:13					
Client ID:	Run ID: ICS-Integrion_373967		SeqNo: 5864064		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	13.68	0.500	10	3.746	99.4	80 - 120	13.96	1.98	20

ALS Houston, US

Date: 04-Dec-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20111013

QC BATCH REPORT

Batch ID: R373967 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0					
MSD	Sample ID: HS20111013-02MSD	Units: mg/L		Analysis Date: 03-Dec-2020 22:20					
Client ID: MW-7 - 2	Run ID: ICS-Integrion_373967		SeqNo: 5864071		PrepDate:		DF: 100		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	2005	50.0	1000	1070	93.5	80 - 120	2014	0.443	20

MSD	Sample ID: HS20110726-03MSD	Units: mg/L		Analysis Date: 04-Dec-2020 05:35					
Client ID:	Run ID: ICS-Integrion_373967		SeqNo: 5864082		PrepDate:		DF: 200		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	6424	100	2000	4754	83.5	80 - 120	6573	2.3	20

The following samples were analyzed in this batch:

HS20111013-01	HS20111013-02	HS20111013-03	HS20111013-04
HS20111013-05	HS20111013-06		

ALS Houston, US

Date: 04-Dec-20

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS20111013

**QUALIFIERS,
ACRONYMS, UNITS**

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

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

Unit Reported	Description
mg/L	Milligrams per Liter

ALS Houston, US

Date: 04-Dec-20

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
California	2919, 2020-2021	30-Apr-2021
Dept of Defense	PJLA L20-507	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Illinois	2000322020-4	09-May-2021
Kansas	E-10352 2020-2021	31-Jul-2021
Kentucky	123043, 2020-2021	30-Apr-2021
Louisiana	03087, 2020-2021	30-Jun-2021
North Carolina	624-2020	31-Dec-2020
North Dakota	R-193 2020-2021	30-Apr-2021
Texas	T104704231-20-26	30-Apr-2021

ALS Houston, US

Date: 04-Dec-20

Sample Receipt Checklist

Work Order ID: HS20111013

Date/Time Received: 19-Nov-2020 09:55

Client Name: Glen Springs/CRA

Received by: Jared R. Makan

Completed By: <u>/S/ Pablo Martinez</u>	19-Nov-2020 15:41	Reviewed by: <u>/S/ Dane J. Wacasey</u>	24-Nov-2020 16:27
eSignature	Date/Time	eSignature	Date/Time

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 ☒
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	COC IDs:230230
Samplers name present on COC?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☒	No ☐	

Temperature(s)/Thermometer(s):

1.3C UC/C IR 31

Cooler(s)/Kit(s):

BLUE

Date/Time sample(s) sent to storage:

11/19/20 15:50

Water - VOA vials have zero headspace?

Yes ☐ No ☐ No VOA vials submitted ☒

Water - pH acceptable upon receipt?

Yes ☐ No ☐ N/A ☒

pH adjusted?

Yes ☐ No ☐ N/A ☒

pH adjusted by:

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

Corrective Action:

Cincinnati, OH
+1 513 733 5336Everett, WA
+1 425 356 2600Fort Collins, CO
+1 970 490 1511Holland, MI
+1 616 399 6070

Chain of Custody Form

Page 1 of 1

COC ID: 230230

HS20111013

WV

Glenn Springs Holdings, Inc.
4502201559 GSHI PXP Hill E.C. Federal #7 TB

Customer Information		Project Information		ALS Project Manager:													
Purchase Order	4502201559 ENV749-402-D02-1100	Project Name	GSHI PXP Hill E.C. Federal #7 TB	A	300_W (300 Chloride)												
Work Order		Project Number	55627DM (ENV749A008) (Cl only)	B													
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.	C													
Send Report To	Mike Carmona	Invoice Attn	Accounts Payable	D													
Address	PO Box 2148	Address	PO Box 2148	E													
				F													
City/State/Zip	Houston, TX 77252-2148	City/State/Zip	Houston TX 77252-2148	G													
Phone		Phone		H													
Fax		Fax		I													
e-Mail Address	Mike.Carmona@tetrattech.com	e-Mail Address		J													

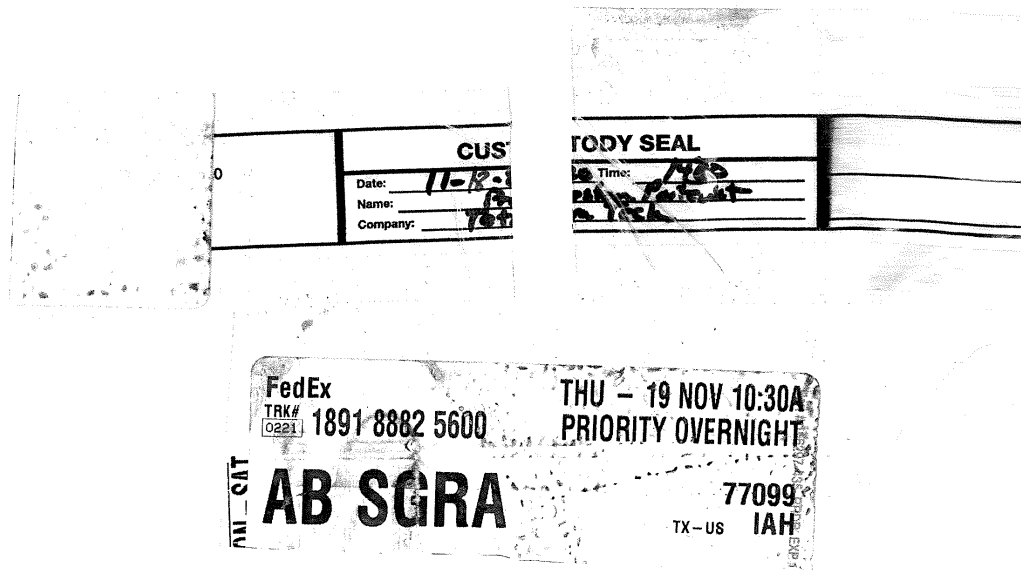
No.	Sample Description	Time	Date	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-7 - 1	1035	11-17-20	Groundwa	8	1	X										
2	MW-7 - 2	1140	11-17-20	Groundwa	8	1	X										
3	MW-7 - 3	1240	11-17-20	Groundwa	8	1	X										
4	MW-7 - 4	1335	11-17-20	Groundwa	8	1	X										
5	MW-7 - 5	1430	11-17-20	Groundwa	8	1	X										
6	MW-7 - 6	1525	11-17-20	Groundwa	8	1	X										
7	DUP			Groundwa	8	1	X										
8																	
9																	
10																	

Sampler(s) Please Print & Sign <i>Proton Pericain</i>		Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date:	
				☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour			
Relinquished by:	Date: 11-18-20	Time: 1630	Received by:		Notes: GSHI PXP Hill EC Federal 7 TB		
Relinquished by:	Date: 11/19/20	Time: 09:55	Received by (Laboratory):		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):		Blue	1.3°C	☒ Level II Std QC ☐ TRRP Checklist ☐ Level III Std QC/Raw Data ☐ TRRP Level IV ☐ Level IV SWB46/CLP ☐ Other
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035							

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

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District I

1625 N. French Dr., Hobbs, NM 88240
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District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 16687

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	16687
Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)	

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2020 Groundwater Sampling Report: Content satisfactory 1. Continue semi-annual groundwater monitoring of the nine monitor wells at the site 2. Quarterly pumping of monitor well MW-7, with a sample to be obtained following the completion of each event 3. Submit the Annual Monitoring Report to the OCD no later than March 31, 2022	12/28/2021