



TETRA TECH

January 25, 2021

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

Review of 2020 Groundwater
Sampling Report: Content satisfactory

1. Continued semi-annual groundwater monitoring and PSH recovery system operation
2. 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 Abandoned Tank Battery (ATB) at Well #24
Section 34, Township 23 South, Range 37 East
Lea County, New Mexico
NMOCD (AP-087)**

Mr. Rose-Coss,

This report summarizes the results of the 2020 semiannual groundwater sampling events performed at the OXY USA, Inc. (OXY) E. C. Hill Abandoned Tank Battery (ATB) at Well #24 (site). The site is located approximately 12 miles south of Eunice, Lea County, New Mexico. The facility was acquired by OXY in March 2008. Prior to OXY acquiring the property, the facility was operated by Plains Exploration and Production (PXP), Pogo Producing Company (Pogo), and Latigo Petroleum, Inc. (Latigo). The site location is shown on **Figures 1 and 2**.

FACILITY BACKGROUND

As part of a due diligence assessment for Pogo, this site was inspected by Highlander Environmental Corp. Highlander supervised the installation of auger holes and soil borings at the site to assess areas that appeared to be impacted from historic releases.

As part of the investigation, two impacted areas were investigated east of the abandoned facility. A total of eight (8) auger holes were installed in an area measuring 75' x 25'. One auger hole was placed in the second impacted area measuring 12' x 12'. Chloride impact was not observed in any of the analyzed auger samples. Total Petroleum Hydrocarbon (TPH) concentrations were detected below the New Mexico Oil Conservation Division (OCD) Recommended Remedial Action Level (RRAL) in six of the nine auger holes. One borehole was installed near auger hole AH-2. Borehole BH-1 exhibited TPH concentrations above the RRAL to a depth of 60'-62' below ground surface (bgs). The sample from 70'-72' bgs was below the RRAL.

Based on the analytical results, borehole (BH-1) was converted to a temporary 2-inch monitor well. Groundwater was encountered at approximately 82 feet below top of

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casing (TOC). On September 22 and 29, 2006 and October 4, 2006, Highlander purged and sampled the well per OCD guidelines for analysis of chlorides, TPH and Benzene, Toluene, Ethylene and Xylenes (BTEX). Chloride concentrations did not exceed New Mexico Water Quality Control Commission (NMWQCC) standards, while hydrocarbon constituents (BTEX) were below the NMWQCC action levels and total TPH was 73.3 milligrams per liter (mg/L). The well was scheduled to be sampled on May 16, 2007; however, 2.68' of Phase Separated Hydrocarbons (PSH) was measured in the well. At that time, the well was completed as a permanent well. On July 25, 2007, the Director of the OCD, Environmental Bureau was notified in writing of groundwater impact at the above-referenced site in accordance with NM Rule 116. To complete delineation at the site, three additional monitor wells were installed at the site in September 2007. The monitor well locations are shown on **Figure 3**.

On July 8, 2008, a Stage 1 Abatement Plan was submitted by OXY to the OCD addressing the groundwater and soil impacts at the site. In the abatement plan, a recovery well was proposed in the vicinity of monitor well MW-1. On January 21, 2011, Tetra Tech personnel supervised the installation of the 4-inch recovery well, RW-1, to a depth of 100 feet bgs. Recovery well RW-1 was installed approximately 10 feet from MW-1 with 4-inch PVC casing and 20 feet of 0.020-inch slot screen at the bottom of the well.

According to the Abatement Plan, OXY proposed to excavate the hydrocarbon impacted soils in the southern end of the facility to a depth of 4.0' bgs and place an impermeable infiltration barrier to prevent further vertical migration of hydrocarbons within the soil.

Between December 2 and December 9, 2015, approximately 400 cubic yards of impacted soil was excavated to a depth of approximately 4 feet bgs. Following excavation and prior to backfilling, a 40-mil liner was placed in the excavation. Following placement of the liner, the excavation was backfilled with clean soils and the site was graded in a manner to prevent rainwater infiltration. The excavated soil was transported to Sundance Services in Eunice, New Mexico.

RECOVERY SYSTEM OPERATIONS AND MAINTENANCE

In 2016 a solar powered NAPL recovery system (SolarNAPL, TR 52600) was installed in recovery well RW-1 which operated through the reporting period. Approximately 33.5 gallons of product was recovered in 2020. The system is solar powered to charge an absorbed glass matt (AGM) deep cycle battery which powers a compressor inside the control panel with an external 7.5-gallon air pressure tank which provides the air power for a pneumatic skimmer pump. The system has a high level shut-off switch installed in a 1,000-gallon poly tank to shut the system down when the tank is full. System schematics are included in **Appendix A**.

GAUGING AND MONITOR WELL SAMPLING

All monitor wells were gauged in the first and third quarters of 2020 with an electronic interface probe that measures to the nearest 0.01 foot. The casing of monitor well MW-1 was noted to be damaged in 2016 and it has not been gauged since that time. The gauging data is summarized in **Table 1**.



PSH was detected in recovery well RW-1 and was not detected in any other monitor wells at the site during 2020. The PSH thickness in recovery well RW-1 fluctuated between 0.27 to 0.88 feet during 2020. Groundwater gradient maps were generated for the first and third quarter sampling events in 2020. During the 2020 gauging events, monitor well MW-4 was dry. Because the three wells from which depth to groundwater measurements were obtained (MW-2, RW-1, and MW-3) during the 2020 groundwater gauging events are aligned in such a way that triangulation of the three points would have limited accuracy, a groundwater gradient was not able to be constructed for this year. However, a general assumption can be made that the groundwater gradient appears to be to the south-southeast, based on the gauging measurements. Groundwater gradient maps for the first and third quarters of 2020 are included as **Figures 4 and 5**, respectively.

During each groundwater sampling event, the wells not containing PSH 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.

No BTEX concentrations above the method detection limits were detected in 2020, which is consistent with previous results.

Chloride analytical results for monitor well MW-3 were below the NMWQCC standard of 250 mg/L during both 2020 sampling events. Chloride analytical results for monitor well MW-2 (duplicate sample) during the third quarter indicated a concentration of 268 mg/L which was slightly above the NMWQCC standard. The chloride concentration indicated in monitor well MW-2 during the first quarter of 2020 was 241 mg/L which is below the NMWQCC standard. Monitor well MW-1 was not sampled in 2020 as it was inaccessible due to casing damage. Monitor well MW-4 was not sampled during 2020 as it was dry. Recovery well RW-1 was not sampled in 2020 due to the presence of PSH.

Graphs of chloride concentrations versus groundwater elevations for monitor wells MW-2 and MW-3 are included in **Appendix B**. These graphs indicate generally stable chloride concentrations in monitor well MW-3. Monitoring well MW-2, the only monitoring well with chloride concentrations exceeding the NMWQCC standard in 2020, had a third quarter concentration of 268 mg/L, lower than the historic maximum concentration of 364 mg/L reported during the first quarter of 2015. The 268 mg/L concentration is only slightly above the NMWQCC of 250 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 C**.

CONCLUSIONS

1. No BTEX concentrations above the method detection limits were detected in 2020, which is consistent with previous results.
2. Monitor well MW-1 was not sampled in 2020 as it was inaccessible due to casing damage. Monitor well MW-4 was not sampled during 2020, as it was dry. Recovery well RW-1 was not sampled in 2020 due to the presence of PSH.



3. Chloride analytical results for monitor well MW-3 were below the NMWQCC standard of 250 mg/L during both 2020 sampling events with concentrations over time exhibiting a generally stable trend.
4. Monitoring well MW-2, the only monitoring well with chloride concentrations exceeding the NMWQCC standard in 2020, had a third quarter concentration of 268 mg/l, lower than the historic maximum concentration of 364 mg/L reported during the first quarter of 2015. The 268 mg/L concentration is only slightly above the NMWQCC of 250 mg/L.
5. PSH was detected in recovery well RW-1 and was not detected in any other monitor wells at the site during 2020. The PSH thickness in recovery well RW-1 fluctuated between 0.27 and 0.88 feet during 2020.
6. In 2016 a solar powered NAPL recovery system (Solar NAPL, TR 52600) was installed in recovery well RW-1 which operated through the reporting period. The system is solar powered to charge an absorbed glass matt (AGM) deep cycle battery which powers a compressor inside the control panel with an external 7.5-gallon air pressure tank which provides the air power for a pneumatic skimmer pump. Approximately 33.5 gallons of product was recovered in 2020.

PROPOSED 2021 GROUNDWATER MONITORING PROGRAM

Continued semi-annual groundwater monitoring and PSH recovery system operation are proposed for 2021.

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 blue 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
Principal Geologist

Attachments:

Figures

Tables

Appendix A – NAPL Recovery System Schematic

Appendix B – Graphs of Chloride Concentrations Versus Groundwater Elevations

Appendix C – Laboratory Reports

cc: Dusty Wilson – Glenn Springs Holdings, Inc.

Figures



LEGEND

● SITE LOCATION

GLENN SPRINGS HOLDINGS

FIGURE 1

E.C. HILL ATB AT WELL 24
(32.261026°,-103.143756°)

OVERVIEW MAP

LEA COUNTY, NEW MEXICO

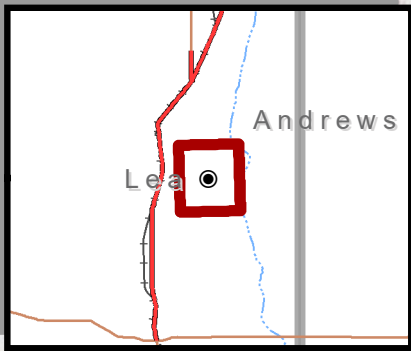
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Date : 05/20/2019

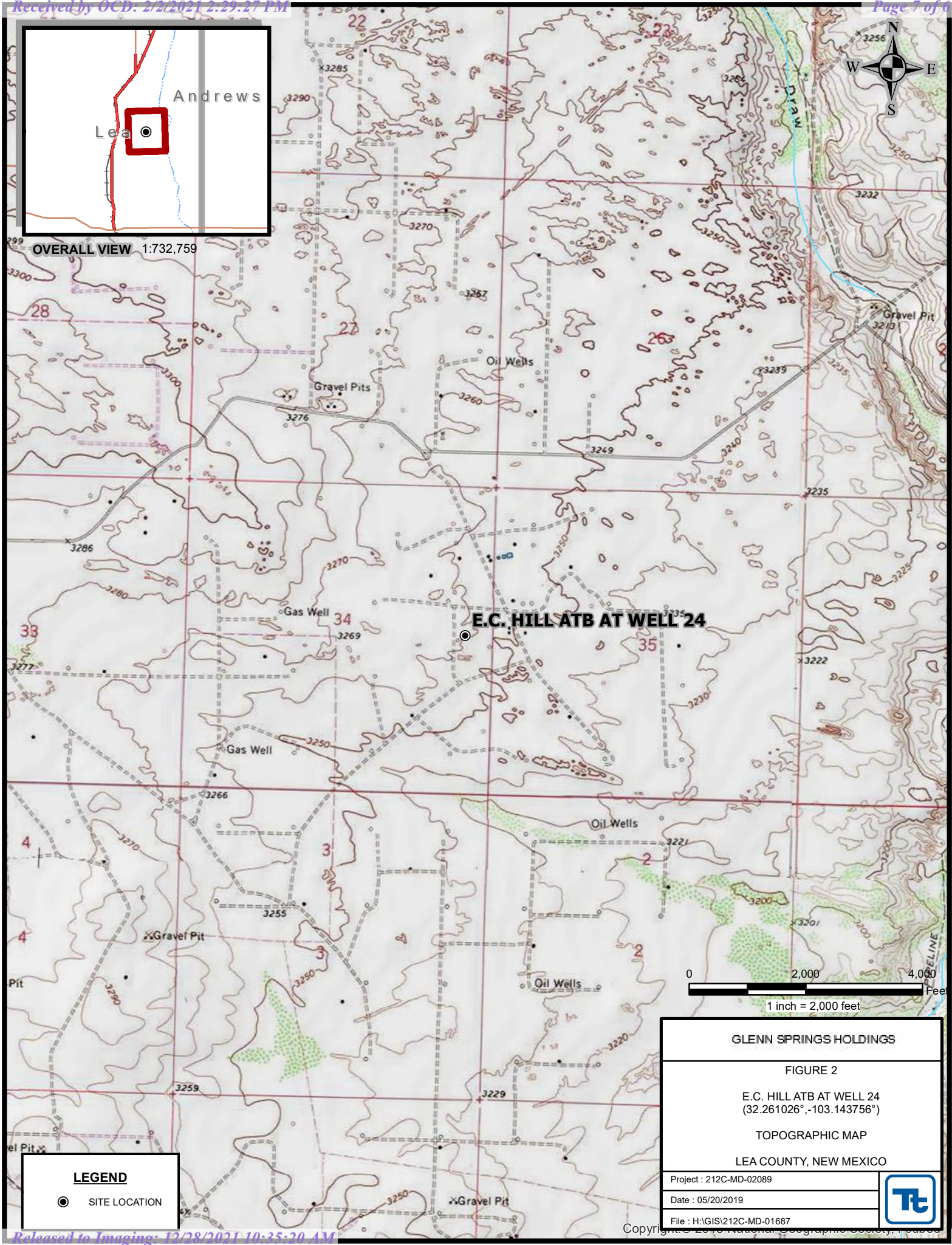
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Sources: Esri, HERE, Garmin,
Japan, METI, Esri China (Hong
Kong), Swatch, Swatch, Swatch,
OpenStreetMap contributors, and the
Geo-Community



OVERALL VIEW 1:732,759



LEGEND

● SITE LOCATION

GLENN SPRINGS HOLDINGS

FIGURE 2

E.C. HILL ATB AT WELL 24
(32.261026°,-103.143756°)

TOPOGRAPHIC MAP

LEA COUNTY, NEW MEXICO

Project : 212C-MD-02089

Date : 05/20/2019

File : H:\GIS\212C-MD-01687





LEGEND

○ = MONITOR WELL LOCATIONS
● = RECOVERY WELL LOCATIONS

NOTES:

1. ALL ELEVATIONS IN FEET AMSL

SOURCE: "NEW MEXICO" 32°15'39.69"N, 103° 8'37.52"W. GOOGLE EARTH.
FEBRUARY 20, 2019, MAY 07, 2020

TETRA TECH
901 W. WALL STREET STE. 100
MIDLAND, TEXAS
(432) 682-4559

GLENN SPRINGS HOLDINGS

NORTH

0 20 50ft

FIGURE 3
SITE MAP

E.C. HILL ATB @ WELL #24
LEA COUNTY, NEW MEXICO

Project: 212C-MD-02089	REV.
Date: 6/11/20	
File: H:\Acad Data\GLENN SPRINGS\201901687\02089	



LEGEND

- = MONITOR WELL LOCATIONS
- = RECOVERY WELL LOCATIONS
- = CONTOUR INTERVALS .50 FT.
- = APPARENT GROUND WATER GRADIENT DIRECTIONAL

NOTES:

- ALL ELEVATIONS IN FEET AMSL
- N.G. = NOT GAUGED
- ** = NOT USED IN CONTOURING

SOURCE: "NEW MEXICO" 32°15'39.69"N, 103° 8'37.52"W. GOOGLE EARTH.
FEBRUARY 20, 2019, MAY 07, 2020

TETRA TECH
901 W. WALL STREET STE. 100
MIDLAND, TEXAS
(432) 682-4559

GLENN SPRINGS HOLDINGS

NORTH

FIGURE 4

GROUND WATER GRADIENT MAP
FEBRUARY 20, 2020
E.C. HILL ATB @ WELL #24
LEA COUNTY, NEW MEXICO

Project: 212C-MD-02089	REV.
Date: 11/03/20	
<small>File: M:\Acad Data\GLENN SPRINGS\2020\212C-MD-02089 E.C.HILL ATB @ WELL 24</small>	

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DRAFTED BY: DAN NADVORNIK



LEGEND

- = MONITOR WELL LOCATIONS
- = RECOVERY WELL LOCATIONS
- = CONTOUR INTERVALS .50 FT.
- = APPARENT GROUND WATER GRADIENT DIRECTIONAL

NOTES:

- ALL ELEVATIONS IN FEET AMSL
- N.G. = NOT GAUGED
- ** = NOT USED IN CONTOURING

SOURCE: "NEW MEXICO" 32°15'39.69"N, 103° 8'37.52"W. GOOGLE EARTH.
FEBRUARY 20, 2019, MAY 07, 2020

TETRA TECH
901 W. WALL STREET STE. 100
MIDLAND, TEXAS
(432) 682-4559

GLENN SPRINGS HOLDINGS

NORTH

FIGURE 5

GROUND WATER GRADIENT MAP
AUGUST 12, 2020
E.C. HILL ATB @ WELL #24
LEA COUNTY, NEW MEXICO

Project: 212C-MD-02089	REV.
Date: 6/11/20	
<small>File: M:\Acad Data\GLENN SPRINGS\2020\212C-MD-02089 E.C.HILL ATB @ WELL 24</small>	

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 **LEGEND**
MONITOR WELL LOCATIONS

NOTES:
1. NS - Not Sampled

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GLENN SPRINGS HOLDINGS

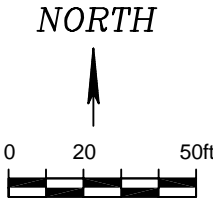


FIGURE 6
BTEX & Chloride Concentration Map
February 20, 2020
E.C. HILL ATB @ WELL #24
LEA COUNTY, NEW MEXICO

Project: 212C-MD-02089	REV.
Date: 5/20/2019	
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 **LEGEND**
MONITOR WELL LOCATIONS

NOTES:

1. NS - Not Sampled

 **TETRA TECH**
901 W. WALL STREET STE. 100
MIDLAND, TEXAS
(432) 682-4559

GLENN SPRINGS HOLDINGS

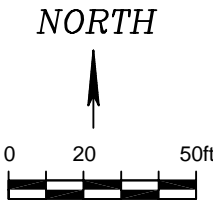


FIGURE 7
BTEX & Chloride Concentration Map
August 12, 2020
E.C. HILL ATB @ WELL #24
LEA COUNTY, NEW MEXICO

Project: 212C-MD-01087
Date: 5/20/2019
File: H:\Acad Data\GLENN SPRINGS\2019\01687

REV.

Tables

TABLE 1
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E.C. Hill 'B' ATB at Well #24
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	10/23/08	3,260.03	98.00	82.00	85.03	3.03	3,177.27
	12/12/08	3,260.03	98.00	81.98	84.97	2.99	3,177.30
	03/12/09	3,260.03	98.00	81.98	85.02	3.04	3,177.29
	06/22/09	3,260.03	98.00	81.99	85.05	3.06	3,177.28
	09/16/09	3,260.03	98.00	82.03	85.13	3.10	3,177.23
	12/10/09	3,260.03	98.00	82.07	85.13	3.06	3,177.20
	03/10/10	3,260.03	98.00	82.02	85.08	3.06	3,177.25
	06/08/10	3,260.03	98.00	82.08	85.30	3.22	3,177.15
	09/13/10	3,260.03	98.00	82.08	85.03	2.95	3,177.21
	12/14/10	3,260.03	98.00	82.04	85.10	3.06	3,177.23
	03/10/11	3,260.03	98.00	82.13	85.07	2.94	3,177.17
	06/13/11	3,260.03	98.00	82.18	85.13	2.95	3,177.11
	09/20/11	3,260.03	98.00	82.36	85.01	2.65	3,177.01
	12/12/11	3,260.03	98.00	83.32	84.92	1.60	3,176.31
	04/05/12	3,260.03	98.00	82.32	84.70	2.38	3,177.12
	06/20/12	3,260.03	98.00	82.35	84.71	2.36	3,177.09
	09/25/12	3,260.03	98.00	82.37	85.11	2.74	3,176.98
	12/14/12	3,260.03	98.00	82.57	83.96	1.39	3,177.11
	03/27/13	3,260.03	98.00	82.71	83.09	0.38	3,177.23
	06/07/13	3,260.03	98.00	81.78	83.82	2.04	3,177.74
	06/24/13	3,260.03	98.00	82.68	83.96	1.28	3,177.03
	07/08/13	3,260.03	98.00	82.80	83.31	0.51	3,177.10
	07/23/13	3,260.03	98.00	82.80	83.20	0.40	3,177.13
	08/06/13	3,260.03	98.00	82.77	83.37	0.60	3,177.11
	09/19/13	3,260.03	98.00	NG	-	-	-
	11/07/13	3,260.03	98.00	82.67	83.82	1.15	3,177.07
	12/26/13	3,260.03	98.00	82.75	83.30	0.55	3,177.14
	03/26/14	3,260.03	97.85	82.73	83.44	0.71	3,177.12
	06/17/14	3,260.03	97.85	82.72	83.64	0.92	3,177.08
	09/26/14	3,260.03	97.85	82.74	83.67	0.93	3,177.06
	12/15/14	3,260.03	97.85	82.80	83.34	0.54	3,177.10
	01/29/15	3,260.03	97.85	82.89	83.52	0.63	3,176.98
	02/04/15	3,260.03	97.85	82.81	83.13	0.32	3,177.14
	03/24/15	3,260.03	97.85	82.85	82.91	0.06	3,177.17
	06/17/15	3,260.03	97.85	82.87	82.96	0.09	3,177.14
	07/30/15	3,260.03	97.85	82.77	82.85	0.08	3,177.24
	08/06/15	3,260.03	97.85	82.79	82.83	0.04	3,177.23
	08/12/15	3,260.03	97.85	82.74	82.77	0.03	3,177.28
	08/18/15	3,260.03	97.85	82.71	82.74	0.03	3,177.31
	09/08/15	3,260.03	-	82.74	82.77	0.03	3,177.28
	12/18/15	3,260.06	-	82.85	82.95	0.10	3,177.19
	03/14/16	3,260.06	-	82.67	82.71	0.04	3,177.38
	06/28/16	3,260.06	-			NG	
	09/07/16	3,260.06	-			NG	
	12/06/16	3,260.06	-			NG	

TABLE 1
Glenn Springs Holdings, Inc.
E.C. Hill 'B' ATB at Well #24
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 Cont.	03/01/17	3,260.06	-			NG	
	08/29/17	3,260.06	-			NG	
	02/20/18	3,260.06	-			NG	
	08/23/18	3,260.06	-			NG	
	02/08/19	3,260.06	-			NG	
	08/09/19	3,260.06	-			NG	
	02/20/20	3,260.06	-			NG	
	08/12/20	3,260.06	-			NG	
MW-2	10/23/08	3,265.85	95.00	-	87.69	-	3,178.16
	12/12/08	3,265.85	95.00	-	87.62	-	3,178.23
	03/12/09	3,265.85	95.00	-	87.63	-	3,178.22
	06/22/09	3,265.85	95.00	-	87.60	-	3,178.25
	09/16/09	3,265.85	95.00	-	87.69	-	3,178.16
	12/10/09	3,265.85	95.00	-	87.68	-	3,178.17
	03/10/10	3,265.85	95.00	-	87.61	-	3,178.24
	06/08/10	3,265.85	95.00	-	87.64	-	3,178.21
	09/13/10	3,265.85	95.00	-	87.64	-	3,178.21
	12/14/10	3,265.85	95.00	-	88.57	-	3,177.28
	03/10/11	3,265.85	95.00	-	87.78	-	3,178.07
	06/13/11	3,265.85	95.00	-	87.79	-	3,178.06
	09/20/11	3,265.85	95.00	-	87.85	-	3,178.00
	12/12/11	3,265.85	95.00	-	87.98	-	3,177.87
	04/05/12	3,265.85	95.00	-	87.83	-	3,178.02
	06/20/12	3,265.85	95.00	-	87.99	-	3,177.86
	09/25/12	3,265.85	95.00	-	87.84	-	3,178.01
	12/14/12	3,265.85	95.00	-	87.94	-	3,177.91
	03/27/13	3,265.85	95.00	-	87.92	-	3,177.93
	06/07/13	3,265.85	95.00	-	88.00	-	3,177.85
	09/19/13	3,265.85	95.00	-	87.98	-	3,177.87
	11/07/13	3,265.85	95.00	-	88.10	-	3,177.75
	12/26/13	3,265.85	95.00	-	88.03	-	3,177.82
	03/26/14	3,265.85	92.50	-	88.02	-	3,177.83
	06/17/14	3,265.85	92.50	-	87.95	-	3,177.90
	09/26/14	3,265.85	92.50	-	88.05	-	3,177.80
	12/15/14	3,265.85	92.50	-	88.12	-	3,177.73
	03/24/15	3,265.85	92.50	-	88.05	-	3,177.80
	06/17/15	3,265.85	92.50	-	88.01	-	3,177.84
	08/06/15	3,265.85	-	-	88.04	-	3,177.81
	09/08/15	3,265.85	92.50	-	87.98	-	3,177.87
	12/18/15	3,265.86	92.08	-	88.02	-	3,177.84
	03/14/16	3,265.86	-	-	87.88	-	3,177.98
	06/28/16	3,265.86	92.50	-	87.94	-	3,177.92
	09/07/16	3,265.86	-	-	87.90	-	3,177.96
	12/06/16	3,265.86	-	-	87.87	-	3,177.99
	03/01/17	3,265.86	92.50	-	87.98	-	3,177.88

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Lea County, New Mexico

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MW-2 Cont.	08/29/17	3,265.86	92.50	-	87.90	-	3,177.96
	02/20/18	3,265.86	92.44	-	87.50	-	3,178.36
	08/23/18	3,265.86	-	-	88.01	-	3,177.85
	02/08/19	3,265.86	91.92	-	87.78	-	3,178.08
	08/09/19	3,265.86	92.30	-	87.50	-	3,178.36
	02/20/20	3,265.86	92.30	-	87.75	-	3,178.11
	08/12/20	3,265.86	91.91	-	87.81	-	3,178.05
MW-3	10/23/08	3,257.76	93.00	-	80.72	-	3,177.04
	12/12/08	3,257.76	93.00	-	80.67	-	3,177.09
	03/12/09	3,257.76	93.00	-	80.68	-	3,177.08
	06/22/09	3,257.76	93.00	-	79.65	-	3,178.11
	09/16/09	3,257.76	93.00	-	80.74	-	3,177.02
	12/10/09	3,257.76	93.00	-	80.73	-	3,177.03
	03/10/10	3,257.76	93.00	-	80.69	-	3,177.07
	06/08/10	3,257.76	93.00	-	80.72	-	3,177.04
	09/13/10	3,257.76	93.00	-	80.70	-	3,177.06
	12/14/10	3,257.76	93.00	-	81.61	-	3,176.15
	03/10/11	3,257.76	93.00	-	80.80	-	3,176.96
	06/13/11	3,257.76	93.00	-	80.86	-	3,176.90
	09/20/11	3,257.76	93.00	-	80.93	-	3,176.83
	12/12/11	3,257.76	93.00	-	81.05	-	3,176.71
	04/05/12	3,257.76	93.00	-	80.92	-	3,176.84
	06/20/12	3,257.76	93.00	-	80.96	-	3,176.80
	09/25/12	3,257.76	93.00	-	80.97	-	3,176.79
	12/14/12	3,257.76	93.00	-	81.02	-	3,176.74
	03/27/13	3,257.76	93.00	-	81.00	-	3,176.76
	06/07/13	3,257.76	93.00	-	81.05	-	3,176.71
	09/19/13	3,257.76	93.00	-	81.02	-	3,176.74
	11/07/13	3,257.76	93.00	-	81.15	-	3,176.61
	12/26/13	3,257.76	85.97	-	81.09	-	3,176.67
	03/26/14	3,257.76	84.23	-	81.09	-	3,176.67
	06/17/14	3,257.76	84.23	-	81.07	-	3,176.69
	09/26/14	3,257.76	84.23	-	81.11	-	3,176.65
	12/15/14	3,257.76	84.10	-	81.17	-	3,176.59
	03/24/15	3,257.76	84.10	-	81.09	-	3,176.67
	06/17/15	3,257.76	84.09	-	81.08	-	3,176.68
	08/06/15	3,257.76	-	-	81.03	-	3,176.73
	09/08/15	3,257.76	84.09	-	80.98	-	3,176.78
	12/18/15	3,257.76	83.95	-	81.05	-	3,176.71
	03/14/16	3,257.76	83.95	-	80.97	-	3,176.79
	06/28/16	3,257.76	84.09	-	81.01	-	3,176.75
	09/07/16	3,257.76	-	-	80.95	-	3,176.81
	12/06/16	3,257.76	-	-	81.05	-	3,176.71
	03/01/17	3,257.76	-	-	81.00	-	3,176.76
	08/29/17	3,257.76	-	-	81.92	-	3,175.84

TABLE 1
Glenn Springs Holdings, Inc.
E.C. Hill 'B' ATB at Well #24
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-3 Cont.	02/20/18	3,257.76	84.09	-	80.90	-	3,176.86
	08/23/18	3,257.76	-	-	81.04	-	3,176.72
	02/08/19	3,257.76	84.05	-	80.82	-	3,176.94
	08/09/19	3,257.76	84.21	-	81.00	-	3,176.76
	02/20/20	3,257.76	84.21	-	80.81	-	3,176.95
	08/12/20	3,257.76	83.90	-	80.85	-	3,176.91
MW-4	10/23/08	3,260.41	93.00	-	82.90	-	3,177.51
	12/12/08	3,260.41	93.00	-	82.87	-	3,177.54
	03/12/09	3,260.41	93.00	-	82.88	-	3,177.53
	06/22/09	3,260.41	93.00	-	82.82	-	3,177.59
	09/16/09	3,260.41	93.00	-	82.91	-	3,177.50
	12/10/09	3,260.41	93.00	-	82.91	-	3,177.50
	03/10/10	3,260.41	93.00	-	82.83	-	3,177.58
	06/08/10	3,260.41	93.00	-	82.83	-	3,177.58
	09/13/10	3,260.41	93.00	-	82.88	-	3,177.53
	12/14/10	3,260.41	93.00	-	83.79	-	3,176.62
	03/10/11	3,260.41	93.00	-	82.99	-	3,177.42
	06/13/11	3,260.41	93.00	-	83.02	-	3,177.39
	09/20/11	3,260.41	93.00	-	83.06	-	3,177.35
	12/12/11	3,260.41	93.00	-	83.19	-	3,177.22
	04/05/12	3,260.41	93.00	-	83.06	-	3,177.35
	06/20/12	3,260.41	93.00	-	83.07	-	3,177.34
	09/25/12	3,260.41	93.00	-	83.05	-	3,177.36
	12/14/12	3,260.41	93.00	-	83.15	-	3,177.26
	03/27/13	3,260.41	93.00	-	83.19	-	3,177.22
	06/07/13	3,260.41	93.00	-	83.28	-	3,177.13
	09/19/13	3,260.41	93.00	-	83.15	-	3,177.26
	11/07/13	3,260.41	93.00	-	83.31	-	3,177.10
	12/26/13	3,260.41	93.00	-	83.24	-	3,177.17
	03/26/14	3,260.41	86.25	-	83.22	-	3,177.19
	06/17/14	3,260.41	86.25	-	83.18	-	3,177.23
	09/26/14	3,260.41	86.25	-	83.27	-	3,177.14
	12/15/14	3,260.41	86.05	-	83.34	-	3,177.07
	03/24/15	3,260.41	86.05	-	83.24	-	3,177.17
	06/17/15	3,260.41	86.07	-	83.29	-	3,177.12
	08/06/15	3,260.41	-	-	83.25	-	3,177.16
	09/08/15	3,260.41	86.07	-	83.16	-	3,177.25
	12/18/15	3,260.40	85.96	-	83.22	-	3,177.18
	03/14/16	3,260.40	-	-	83.10	-	3,177.30
	06/28/16	3,260.40	86.07	-	83.17	-	3,177.23
	09/07/16	3,260.40	-	-	83.12	-	3,177.28
	12/06/16	3,260.40	-	-	83.12	-	3,177.28
	03/01/17	3,260.40	87.55	-	83.20	-	3,177.20
	08/29/17	3,260.40	87.55	-	83.09	-	3,177.31
	02/20/18	3,260.40	85.90	-	83.06	-	3,177.34

TABLE 1
Glenn Springs Holdings, Inc.
E.C. Hill 'B' ATB at Well #24
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-4 Cont.	08/23/18	3,260.40	-	-	83.13	-	3,177.27
	02/08/19	3,260.40	83.08	-	82.94	-	3,177.46
	08/09/19	3,260.40	83.10	-	Dry	-	-
	02/20/20	3,260.40	83.10	-	Dry	-	-
	08/12/20	3,260.40	83.10	-	Dry	-	-
RW-1	06/13/11	3,260.81		-	83.36	-	3,177.45
	09/20/11	3,260.81		-	83.48	-	3,177.33
	12/12/11	3,260.81		-	83.51	-	3,177.30
	04/05/12	3,260.81		-	84.70	-	3,176.11
	06/20/12	3,260.81		-	83.43	-	3,177.38
	09/25/12	3,260.81		-	83.42	-	3,177.39
	12/14/12	3,260.81		-	83.53	-	3,177.28
	03/27/13	3,260.81		-	83.53	-	3,177.28
	06/07/13	3,260.81		-	83.49	-	3,177.32
	09/19/13	3,260.81		-	NG	-	-
	11/07/13	3,260.81		-	83.60	-	3,177.21
	12/26/13	3,260.81		-	83.58	-	3,177.23
	03/26/14	3,260.81	103.10	-	83.58	-	3,177.23
	06/17/14	3,260.81	103.10	-	83.60	-	3,177.21
	09/26/14	3,260.81	103.10	-	83.59	-	3,177.22
	12/15/14	3,260.81	103.01	-	83.61	-	3,177.20
	03/24/15	3,260.81	102.99	-	83.61	-	3,177.20
	06/18/15	3,260.81	102.93	-	83.65	-	3,177.16
	08/06/15	3,260.81	-	-	83.54	-	3,177.27
	08/12/15	3,260.81	-	-	83.51	-	3,177.30
	08/18/15	3,260.81	-	83.48	83.51	0.03	3,177.32
	09/08/15	3,260.81	-	83.90	83.94	0.04	3,176.90
	12/18/15	3,260.81	102.93	83.60	83.70	0.10	3,177.19
	03/14/16	3,260.81	-	83.40	83.41	0.01	3,177.41
	06/28/16	3,260.81	-	83.48	83.49	0.01	3,177.33
	09/07/16	3,260.81	-	83.46	83.60	0.14	3,177.32
	12/06/16	3,260.81	-	83.45	83.59	0.14	3,177.33
	03/01/17	3,260.81	-	83.45	83.70	0.25	3,177.30
	08/29/17	3,260.81	-	83.44	83.88	0.44	3,177.26
	02/20/18	3,260.81	-	83.34	83.91	0.57	3,177.33
	08/23/18	3,260.81	-	83.32	84.02	0.70	3,177.32
	02/08/19	3,260.81	107.50	83.82	84.04	0.22	3,176.94
	08/09/19	3,260.81	-	83.30	84.15	0.85	3,177.30
	10/10/19	3,260.81	-	83.41	83.81	0.40	3,177.30
	02/20/20	3,260.81	-	83.35	83.62	0.27	3,177.39
	08/21/20	3,260.81	-	84.27	85.15	0.88	3,176.32

(-) No data (TOC) Top of casing
(MW-1) Groundwater elevation corrected using 0.75 specific gravity
AMSL - Above Mean Sea Level
NG - Not Gauged, instrument malfunction

TABLE 1
Glenn Springs Holdings, Inc.
E.C. Hill 'B' ATB at Well #24
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)
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NA - Not Available, Top of Casing elevation not available for RW-1

TOC Elevations resurveyed by John West Survey Company on October 29, 2015

NA - Not Available, MW-1 Depth to product and water measurements not available due to casing obstruction

TABLE 2
Glenn Springs Holdings, Inc.
E.C. Hill 'B' ATB at Well #24
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	PSH Thickness (ft)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Xylene (mg/L)	Total BTEX (mg/L)	TPH 8015M			Chloride (mg/L)
								GRO (mg/L)	DRO (mg/L)	Total (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	0.031	0.0669	0.0979	-	-	-	138
	09/29/06	-	0.0012	<0.001	0.0143	0.0386	0.0541	-	-	-	111
	10/04/06	-	<0.001	<0.001	0.0175	0.097	0.1145	12.0	61.7	73.7	119
	11/14/07	2.68	Well contains measurable PSH and not sampled								
	10/23/08	3.03	Well contains measurable PSH and not sampled								
	12/12/08	2.99	Well contains measurable PSH and not sampled								
	03/12/09	3.04	Well contains measurable PSH and not sampled								
	06/22/09	3.06	Well contains measurable PSH and not sampled								
	09/16/09	3.10	Well contains measurable PSH and not sampled								
	12/10/09	3.06	Well contains measurable PSH and not sampled								
	03/10/10	3.06	Well contains measurable PSH and not sampled								
	06/08/10	3.22	Well contains measurable PSH and not sampled								
	09/13/10	2.95	Well contains measurable PSH and not sampled								
	12/14/10	3.06	Well contains measurable PSH and not sampled								
	03/10/11	2.94	Well contains measurable PSH and not sampled								
	06/13/11	2.95	Well contains measurable PSH and not sampled								
	09/20/11	2.65	Well contains measurable PSH and not sampled								
	12/12/11	1.60	Well contains measurable PSH and not sampled								
	04/06/12	2.38	Well contains measurable PSH and not sampled								
	06/20/12	2.36	Well contains measurable PSH and not sampled								
	09/25/12	2.74	Well contains measurable PSH and not sampled								
	12/14/12	1.39	Well contains measurable PSH and not sampled								
	03/27/13	0.38	Well contains measurable PSH and not sampled								
	06/07/13	2.04	Well contains measurable PSH and not sampled								
	09/19/13	NA	Well contains measurable PSH and not sampled								
	12/26/13	0.55	Well contains measurable PSH and not sampled								
	03/27/14	0.71	Well contains measurable PSH and not sampled								
	06/19/14	0.92	Well contains measurable PSH and not sampled								
	09/26/14	0.93	Well contains measurable PSH and not sampled								
	12/15/14	0.54	Well contains measurable PSH and not sampled								
	03/24/15	0.06	Well contains measurable PSH and not sampled								
	06/17/15	0.09	Well contains measurable PSH and not sampled								
09/08/15	0.09	Well contains measurable PSH and not sampled									
12/18/15	0.10	Well contains measurable PSH and not sampled									
03/16/16	0.04	Well contains measurable PSH and not sampled									
06/29/16		Casing damaged and not able to be sampled									
09/08/16		Casing damaged and not able to be sampled									
12/06/16		Casing damaged and not able to be sampled									
03/02/17		Casing damaged and not able to be sampled									
08/29/17		Casing damaged and not able to be sampled									
02/20/18		Casing damaged and not able to be sampled									
08/23/18		Casing damaged and not able to be sampled									
02/08/19		Casing damaged and not able to be sampled									
08/08/19		Casing damaged and not able to be sampled									
02/20/20		Casing damaged and not able to be sampled									
08/12/20		Casing damaged and not able to be sampled									

TABLE 2
Glenn Springs Holdings, Inc.
E.C. Hill 'B' ATB at Well #24
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	PSH Thickness (ft)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Xylene (mg/L)	Total BTEX (mg/L)	TPH 8015M			Chloride (mg/L)
								GRO (mg/L)	DRO (mg/L)	Total (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	10/23/08	-	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	267
	12/12/08	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	270
	03/12/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	315
	06/22/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	254
	09/16/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	232
	12/10/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	207
	03/10/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	206
	06/08/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	162
	09/13/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	230
	12/14/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	206
	03/10/11	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	217
	06/13/11	-	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	-	-	-	240
	09/20/11	-	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	-	-	-	260
	12/12/11	-	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	-	-	-	160
	04/06/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	90.1
	06/20/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	305
	09/25/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	299
	12/14/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	222
	03/27/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	339
	06/07/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	126
	09/19/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	319
	12/27/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	236
	03/27/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	245
	06/19/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	270
	09/30/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	317
	12/15/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	317
	03/24/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	364
	06/17/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	337
	09/08/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	271
	12/18/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	286
	03/16/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	283
	06/29/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	270
Dup	06/29/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	252
	09/08/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	255
	12/06/16	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	283
Dup	03/02/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	282
	03/02/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	300
Dup	08/31/17	-	<0.005	0.64J	<0.005	<0.005	0.64J	-	-	-	241
	08/31/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	246
Dup	02/22/18	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	254
	08/23/18	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	216
	08/23/18	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	259
Dup	02/08/19	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	254
	08/08/19	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	231
	08/08/19	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	228
	02/20/20	-	<0.006	<0.005	<0.005	<0.005	<0.006	-	-	-	241
	08/12/20	-	<0.006	<0.005	<0.005	<0.005	<0.006	-	-	-	268

TABLE 2
Glenn Springs Holdings, Inc.
E.C. Hill 'B' ATB at Well #24
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	PSH Thickness (ft)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Xylene (mg/L)	Total BTEX (mg/L)	TPH 8015M			Chloride (mg/L)
								GRO (mg/L)	DRO (mg/L)	Total (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	10/23/08	-	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	119
	12/12/08	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	120
	03/12/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	120
	06/22/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	115
	09/16/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	128
	12/10/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	110
	03/10/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	114
	06/08/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	108
	09/13/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	117
	12/14/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	119
	03/10/11	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	126
	06/13/11	-	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	-	-	-	150
	09/20/11	-	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	-	-	-	140
	12/12/11	-	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	-	-	-	150
	04/06/12	-	0.0016 J	<0.005	<0.005	<0.015	0.0016 J	-	-	-	613
	06/20/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	151
	09/25/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	152
	12/14/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	135
	03/27/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	136
	06/07/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	69.5
	09/19/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	165
	12/27/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	157
	03/27/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	175
	06/19/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	207
	09/30/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	166
	12/15/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	169
	03/24/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	163
	06/17/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	156
	09/08/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	152
	12/18/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	152
	03/16/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	156
	Dup	03/16/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-
	06/29/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	153
	09/08/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	143
Dup	09/08/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	136
	12/06/16	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	178
	03/02/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	131
	08/31/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	132
	02/22/18	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	158
	08/23/18	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	145
	02/08/19	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	152
Dup	02/08/19	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	149
	08/08/19	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	182
	02/20/20	-	<0.006	<0.005	<0.005	<0.005	<0.006	-	-	-	150
Dup	02/20/20	-	<0.006	<0.005	<0.005	<0.005	<0.006	-	-	-	147
	08/12/20	-	<0.006	<0.005	<0.005	<0.005	<0.006	-	-	-	164
Dup	08/12/20	-	<0.006	<0.005	<0.005	<0.005	<0.006	-	-	-	158

TABLE 2
Glenn Springs Holdings, Inc.
E.C. Hill 'B' ATB at Well #24
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

Sample ID	Sample Date	PSH Thickness (ft)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Xylene (mg/L)	Total BTEX (mg/L)	TPH 8015M			Chloride (mg/L)
								GRO (mg/L)	DRO (mg/L)	Total (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	10/23/08	-	<0.001	<0.001	<0.001	<0.001	<0.001	-	-	-	109
	12/12/08	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	108
	03/12/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	111
	06/22/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	110
	09/16/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	102
	12/10/09	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	120
	03/10/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	105
	06/08/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	118
	09/13/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	109
	12/14/10	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	107
	03/10/11	-	<0.001	<0.001	<0.001	<0.003	<0.003	-	-	-	109
	06/13/11	-	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	-	-	-	120
	09/20/11	-	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	-	-	-	110
	12/12/11	-	<0.00014	<0.00030	<0.00020	<0.00023	<0.00030	-	-	-	110
	04/06/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	86.2
	06/20/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	116
	09/25/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	121
	12/14/12	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	105
	03/27/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	115
	06/07/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	121
	09/19/13	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	132
	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	-	-	-	113
	06/19/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	140
	09/30/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	122
	12/15/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	118
	03/24/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	119
	06/17/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	117
	09/08/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	108
	12/18/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	111
	03/16/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	118
	06/29/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	131
	09/08/16	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	114
	12/06/16	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	143
Dup	12/06/16	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	146
	03/02/17	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	115
	08/31/17	-	<0.005	0.62J	<0.005	<0.005	0.62J	-	-	-	113
Dup	02/22/18	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	120
	02/22/18	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	118
	08/23/18	-	<0.005	<0.005	<0.005	<0.005	<0.005	-	-	-	151
	02/08/19	-					Dry Not Sampled				
	08/09/19						Dry Not Sampled				
	02/20/20						Dry Not Sampled				
	08/12/20	-					Dry Not Sampled				

TABLE 2
Glenn Springs Holdings, Inc.
E.C. Hill 'B' ATB at Well #24
Summary of Analysis of Groundwater Samples
Lea County, New Mexico

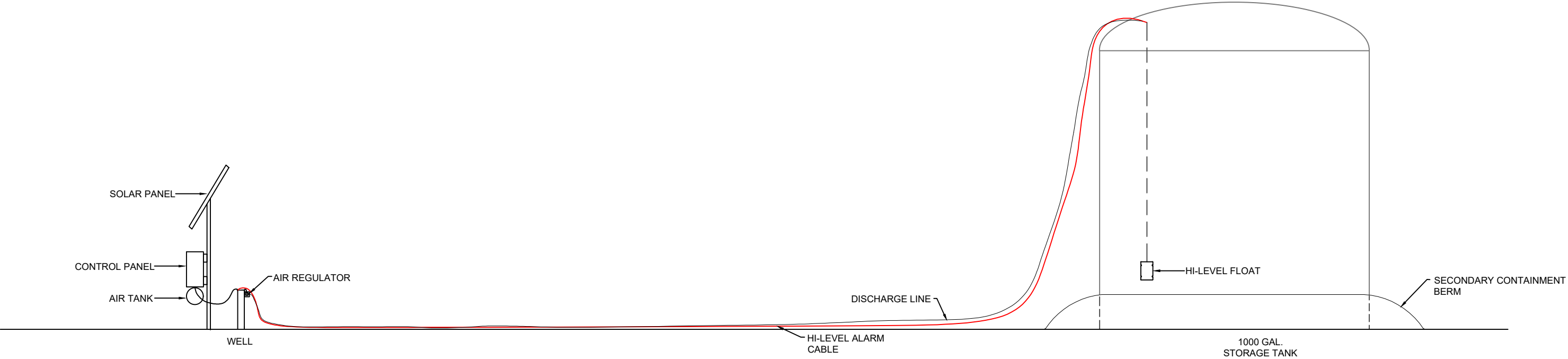
Sample ID	Sample Date	PSH Thickness (ft)	Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Xylene (mg/L)	Total BTEX (mg/L)	TPH 8015M			Chloride (mg/L)
								GRO (mg/L)	DRO (mg/L)	Total (mg/L)	
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration											
			0.005 mg/L	1.0 mg/L	0.7 mg/L	0.62 mg/L					250.0 mg/L*
RW-1	04/06/12	-	-	-	-	-	-	-	-	-	-
	06/20/12	-	-	-	-	-	-	-	-	-	-
	09/25/12	-	-	-	-	-	-	-	-	-	-
	12/14/12	-	-	-	-	-	-	-	-	-	-
	03/27/13	-	-	-	-	-	-	-	-	-	-
	06/07/13	-	-	-	-	-	-	-	-	-	-
	09/19/13	NA	-	-	-	-	-	-	-	-	-
	12/27/13	-	-	-	-	-	-	-	-	-	-
	03/27/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	97.7
	06/19/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	111
	09/30/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	104
	12/15/14	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	98.6
	03/24/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	102
	06/17/15	-	<0.005	<0.005	<0.005	<0.015	<0.015	-	-	-	99.5
	09/08/15	0.04	-	-	-	-	-	-	-	-	-
	12/18/15	0.10	-	-	-	-	-	-	-	-	-
	03/16/16	0.01	-	-	-	-	-	-	-	-	-
	06/29/16	0.01	-	-	-	-	-	-	-	-	-
	09/08/16	0.14	-	-	-	-	-	-	-	-	-
	12/06/16	0.14	-	-	-	-	-	-	-	-	-
	03/01/17	0.25	-	-	-	-	-	-	-	-	-
	08/29/17	0.44	-	-	-	-	-	-	-	-	-
	02/20/18	0.57	-	-	-	-	-	-	-	-	-
	08/23/18	0.70	-	-	-	-	-	-	-	-	-
	02/08/19	0.22	-	-	-	-	-	-	-	-	-
	08/09/19	0.88	-	-	-	-	-	-	-	-	-
	02/20/20	0.27	-	-	-	-	-	-	-	-	-
	08/21/20	0.88	-	-	-	-	-	-	-	-	-

(-) not analyzed

(*) Other Standard for Domestic Water Supply

NA - Not Gauged, Instrument Malfunction

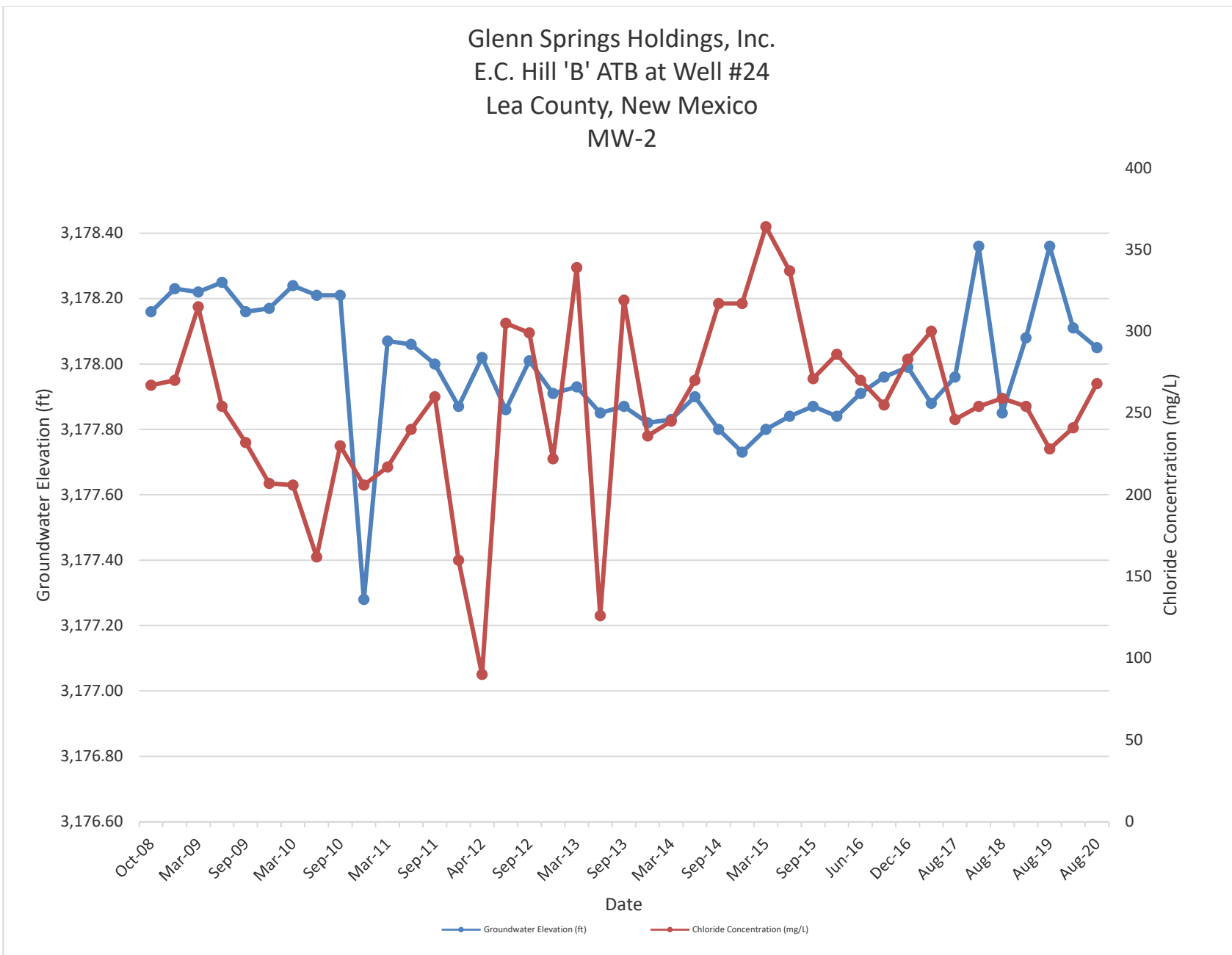
Appendix A – NAPL Recovery System Schematic

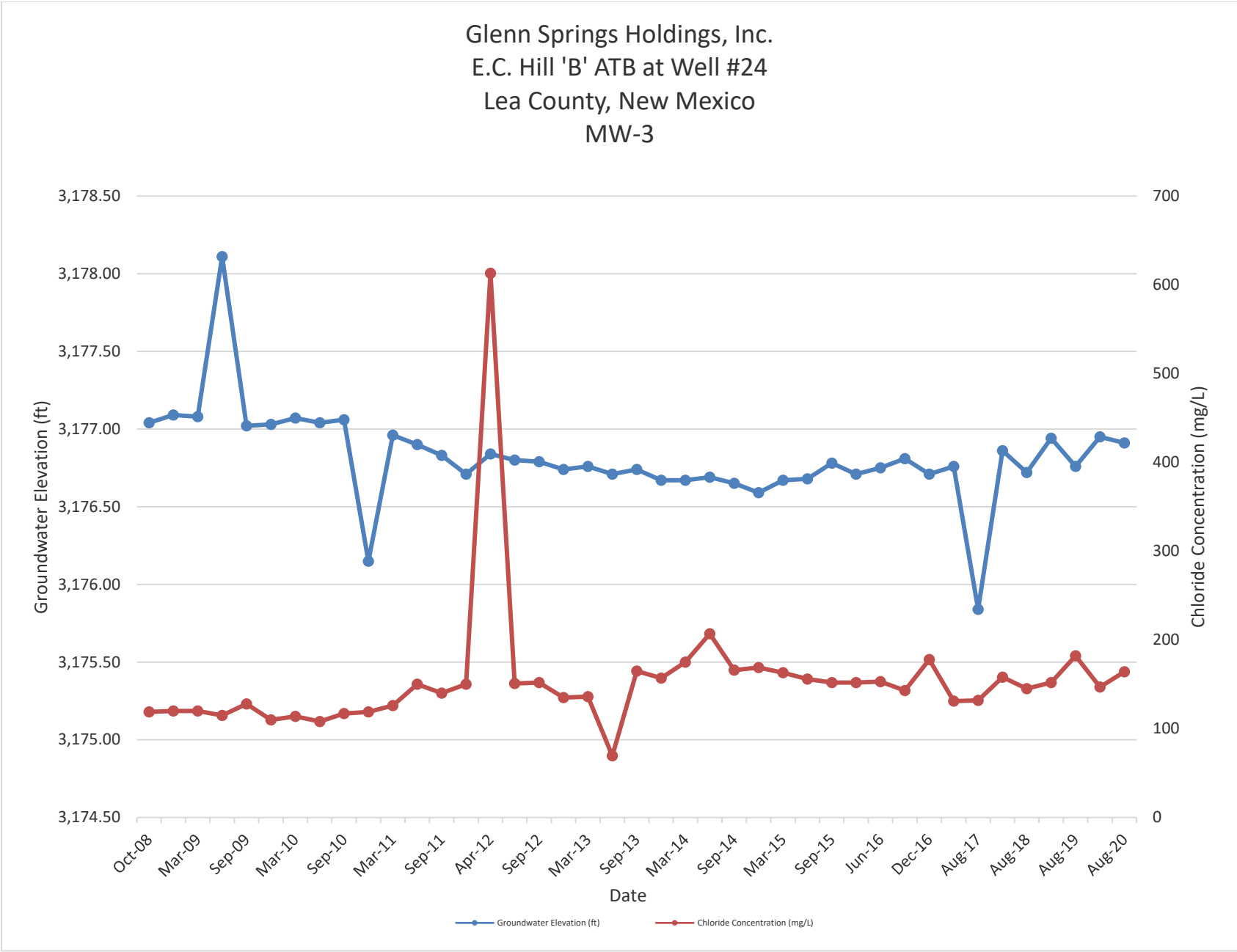


NOT TO SCALE

LEGEND	<div>NOTES:</div>	<div><div><div>Tt</div><div>TETRA TECH</div><div>901 W. WALL STREET STE. 100 MIDLAND, TEXAS (432) 682-4559</div></div></div>	GLENN SPRINGS HOLDINGS	DETAIL SHEET	
				PSH RECOVERY SYSTEM E.C. HILL ATB @ WELL #24 LEA COUNTY, NEW MEXICO	
				Project: 212C-MD-01687	REV.
				Date: 10/8/2019	
File: H:\Acad Data\GLENN SPRINGS\2019\MISC. 2019 DETAILS\PSH RECOVERY SYSTEM					

Appendix B – Graphs





Appendix C – Laboratory Reports



10450 Stancliff Rd. Suite 210
Houston, TX 77099
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February 29, 2020

James Abston
Glenn Springs Holdings, Inc.
PO Box 2148
Houston, TX 77252-2148

Work Order: **HS20020924**

Laboratory Results for: **55625DM GSHI PXP Hill EC B ATB at Well 24**

Dear James,

ALS Environmental received 4 sample(s) on Feb 21, 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: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
Work Order: HS20020924

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20020924-01	MW-2	Groundwater		20-Feb-2020 11:35	21-Feb-2020 08:35	<input type="checkbox"/>
HS20020924-02	MW-3	Groundwater		20-Feb-2020 12:20	21-Feb-2020 08:35	<input type="checkbox"/>
HS20020924-03	DUP	Groundwater		20-Feb-2020 00:00	21-Feb-2020 08:35	<input type="checkbox"/>
HS20020924-04	Trip Blank	Water	CG 011520 -374	20-Feb-2020 00:00	21-Feb-2020 08:35	<input type="checkbox"/>

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
Work Order: HS20020924

CASE NARRATIVE

GCMS Volatiles by Method SW8260

Batch ID: R356810

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

WetChemistry by Method E300

Batch ID: R357301

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

Batch ID: R357256

Sample ID: HS20021195-05MS

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

Sample ID: HS20021199-01MS

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

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
 Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
 Sample ID: MW-2
 Collection Date: 20-Feb-2020 11:35

ANALYTICAL REPORT

WorkOrder:HS20020924
 Lab ID:HS20020924-01
 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	22-Feb-2020 12:01
Ethylbenzene	U		0.50	5.0	ug/L	1	22-Feb-2020 12:01
Toluene	U		0.50	5.0	ug/L	1	22-Feb-2020 12:01
Xylenes, Total	U		0.50	5.0	ug/L	1	22-Feb-2020 12:01
Surr: 1,2-Dichloroethane-d4	108			70-126	%REC	1	22-Feb-2020 12:01
Surr: 4-Bromofluorobenzene	94.8			82-124	%REC	1	22-Feb-2020 12:01
Surr: Dibromofluoromethane	104			77-123	%REC	1	22-Feb-2020 12:01
Surr: Toluene-d8	99.5			82-127	%REC	1	22-Feb-2020 12:01
ANIONS BY E300.0		Method:E300				Analyst: KMU	
Chloride	241		2.00	5.00	mg/L	10	28-Feb-2020 12:50

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

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
 Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
 Sample ID: MW-3
 Collection Date: 20-Feb-2020 12:20

ANALYTICAL REPORT

WorkOrder:HS20020924
 Lab ID:HS20020924-02
 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	22-Feb-2020 12:26
Ethylbenzene	U		0.50	5.0	ug/L	1	22-Feb-2020 12:26
Toluene	U		0.50	5.0	ug/L	1	22-Feb-2020 12:26
Xylenes, Total	U		0.50	5.0	ug/L	1	22-Feb-2020 12:26
Surr: 1,2-Dichloroethane-d4	111			70-126	%REC	1	22-Feb-2020 12:26
Surr: 4-Bromofluorobenzene	96.5			82-124	%REC	1	22-Feb-2020 12:26
Surr: Dibromofluoromethane	104			77-123	%REC	1	22-Feb-2020 12:26
Surr: Toluene-d8	99.8			82-127	%REC	1	22-Feb-2020 12:26
ANIONS BY E300.0		Method:E300				Analyst: KMU	
Chloride	150		2.00	5.00	mg/L	10	28-Feb-2020 13:08

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

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
 Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
 Sample ID: DUP
 Collection Date: 20-Feb-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20020924
 Lab ID:HS20020924-03
 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	22-Feb-2020 12:50
Ethylbenzene	U		0.50	5.0	ug/L	1	22-Feb-2020 12:50
Toluene	U		0.50	5.0	ug/L	1	22-Feb-2020 12:50
Xylenes, Total	U		0.50	5.0	ug/L	1	22-Feb-2020 12:50
Surr: 1,2-Dichloroethane-d4	108			70-126	%REC	1	22-Feb-2020 12:50
Surr: 4-Bromofluorobenzene	95.9			82-124	%REC	1	22-Feb-2020 12:50
Surr: Dibromofluoromethane	103			77-123	%REC	1	22-Feb-2020 12:50
Surr: Toluene-d8	99.9			82-127	%REC	1	22-Feb-2020 12:50
ANIONS BY E300.0		Method:E300				Analyst: KVL	
Chloride	147		2.00	5.00	mg/L	10	28-Feb-2020 14:56

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

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
 Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
 Sample ID: Trip Blank
 Collection Date: 20-Feb-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20020924
 Lab ID:HS20020924-04
 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	22-Feb-2020 09:36
Ethylbenzene	U		0.50	5.0	ug/L	1	22-Feb-2020 09:36
Toluene	U		0.50	5.0	ug/L	1	22-Feb-2020 09:36
Xylenes, Total	U		0.50	5.0	ug/L	1	22-Feb-2020 09:36
Surr: 1,2-Dichloroethane-d4	110			70-126	%REC	1	22-Feb-2020 09:36
Surr: 4-Bromofluorobenzene	98.4			82-124	%REC	1	22-Feb-2020 09:36
Surr: Dibromofluoromethane	105			77-123	%REC	1	22-Feb-2020 09:36
Surr: Toluene-d8	104			82-127	%REC	1	22-Feb-2020 09:36

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

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
WorkOrder: HS20020924

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R356810 (0)		Test Name : VOLATILES - SW8260C			Matrix: Water	
HS20020924-04	Trip Blank	20 Feb 2020 00:00			22 Feb 2020 09:36	1
Batch ID: R356810 (0)		Test Name : VOLATILES - SW8260C			Matrix: Groundwater	
HS20020924-01	MW-2	20 Feb 2020 11:35			22 Feb 2020 12:01	1
HS20020924-02	MW-3	20 Feb 2020 12:20			22 Feb 2020 12:26	1
HS20020924-03	DUP	20 Feb 2020 00:00			22 Feb 2020 12:50	1
Batch ID: R357256 (0)		Test Name : ANIONS BY E300.0			Matrix: Groundwater	
HS20020924-01	MW-2	20 Feb 2020 11:35			28 Feb 2020 12:50	10
HS20020924-02	MW-3	20 Feb 2020 12:20			28 Feb 2020 13:08	10
Batch ID: R357301 (0)		Test Name : ANIONS BY E300.0			Matrix: Groundwater	
HS20020924-03	DUP	20 Feb 2020 00:00			28 Feb 2020 14:56	10

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
WorkOrder: HS20020924

QC BATCH REPORT

Batch ID: R356810 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C					
MBLK	Sample ID: VBLKW-200221	Units: ug/L		Analysis Date: 22-Feb-2020 04:19					
Client ID:	Run ID: VOA9_356810		SeqNo: 5483479		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	49.33	0	50	0	98.7	70 - 130			
Surr: 4-Bromofluorobenzene	47.33	0	50	0	94.7	82 - 115			
Surr: Dibromofluoromethane	49.88	0	50	0	99.8	73 - 126			
Surr: Toluene-d8	49.61	0	50	0	99.2	81 - 120			

LCS	Sample ID: VLCSW-200221	Units: ug/L		Analysis Date: 22-Feb-2020 03:31					
Client ID:	Run ID: VOA9_356810		SeqNo: 5483478		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	18.44	5.0	20	0	92.2	74 - 120			
Ethylbenzene	18.43	5.0	20	0	92.2	77 - 117			
Toluene	18.61	5.0	20	0	93.0	77 - 118			
Xylenes, Total	58.3	5.0	60	0	97.2	75 - 122			
Surr: 1,2-Dichloroethane-d4	48.03	0	50	0	96.1	70 - 130			
Surr: 4-Bromofluorobenzene	50.15	0	50	0	100	82 - 115			
Surr: Dibromofluoromethane	49.82	0	50	0	99.6	73 - 126			
Surr: Toluene-d8	49.79	0	50	0	99.6	81 - 120			

MS	Sample ID: HS20020842-01MS	Units: ug/L		Analysis Date: 22-Feb-2020 05:08					
Client ID:	Run ID: VOA9_356810		SeqNo: 5483481		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	19.91	5.0	20	0	99.6	70 - 127			
Ethylbenzene	20.83	5.0	20	0	104	70 - 124			
Toluene	20.35	5.0	20	0	102	70 - 123			
Xylenes, Total	63.93	5.0	60	0	107	70 - 130			
Surr: 1,2-Dichloroethane-d4	47.63	0	50	0	95.3	70 - 126			
Surr: 4-Bromofluorobenzene	50.47	0	50	0	101	82 - 124			
Surr: Dibromofluoromethane	49.69	0	50	0	99.4	77 - 123			
Surr: Toluene-d8	49.85	0	50	0	99.7	82 - 127			

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
WorkOrder: HS20020924

QC BATCH REPORT

Batch ID: R356810 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C					
MSD		Sample ID: HS20020842-01MSD		Units: ug/L		Analysis Date: 22-Feb-2020 05:32			
Client ID:		Run ID: VOA9_356810		SeqNo: 5483482		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	18.81	5.0	20	0	94.0	70 - 127	19.91	5.72	20
Ethylbenzene	19.51	5.0	20	0	97.5	70 - 124	20.83	6.56	20
Toluene	18.88	5.0	20	0	94.4	70 - 123	20.35	7.5	20
Xylenes, Total	59.69	5.0	60	0	99.5	70 - 130	63.93	6.87	20
Surr: 1,2-Dichloroethane-d4	47.77	0	50	0	95.5	70 - 126	47.63	0.297	20
Surr: 4-Bromofluorobenzene	50.53	0	50	0	101	82 - 124	50.47	0.118	20
Surr: Dibromofluoromethane	48.82	0	50	0	97.6	77 - 123	49.69	1.77	20
Surr: Toluene-d8	50.22	0	50	0	100	82 - 127	49.85	0.737	20
The following samples were analyzed in this batch:									
HS20020924-01		HS20020924-02		HS20020924-03		HS20020924-04			

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
WorkOrder: HS20020924

QC BATCH REPORT

Batch ID: R357256 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0					
MBLK	Sample ID: WBLKW2-022720	Units: mg/L		Analysis Date: 28-Feb-2020 01:03					
Client ID:	Run ID: ICS-Integrion_357256		SeqNo: 5492855		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: WLCBW2-022720	Units: mg/L		Analysis Date: 28-Feb-2020 01:21					
Client ID:	Run ID: ICS-Integrion_357256		SeqNo: 5492856		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	19.88	0.500	20	0	99.4	90 - 110			
LCSD	Sample ID: WLCSDW2-022720	Units: mg/L		Analysis Date: 28-Feb-2020 01:39					
Client ID:	Run ID: ICS-Integrion_357256		SeqNo: 5492857		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	19.88	0.211	20
MS	Sample ID: HS20021199-01MS	Units: mg/L		Analysis Date: 28-Feb-2020 08:54					
Client ID:	Run ID: ICS-Integrion_357256		SeqNo: 5492881		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	243.6	0.500	10	237.6	60.5	80 - 120			SEO
MS	Sample ID: HS20021195-05MS	Units: mg/L		Analysis Date: 28-Feb-2020 02:34					
Client ID:	Run ID: ICS-Integrion_357256		SeqNo: 5492860		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	98.71	0.500	10	91.11	76.0	80 - 120			SO
MSD	Sample ID: HS20021199-01MSD	Units: mg/L		Analysis Date: 28-Feb-2020 09:12					
Client ID:	Run ID: ICS-Integrion_357256		SeqNo: 5492882		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	242.6	0.500	10	237.6	49.9	80 - 120	243.6	0.435	20 SEO

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
WorkOrder: HS20020924

QC BATCH REPORT

Batch ID: R357256 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0						
MSD	Sample ID: HS20021195-05MSD	Units: mg/L		Analysis Date: 28-Feb-2020 02:52						
Client ID:	Run ID: ICS-Integrion_357256		SeqNo: 5492861		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	99.23	0.500	10	91.11	81.2	80 - 120	98.71	0.526	20	O
The following samples were analyzed in this batch:										
HS20020924-01 HS20020924-02										

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
WorkOrder: HS20020924

QC BATCH REPORT

Batch ID: R357301 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0					
MBLK	Sample ID: WBLKW1-022820	Units: mg/L		Analysis Date: 28-Feb-2020 14:02					
Client ID:	Run ID: ICS-Integrion_357301		SeqNo: 5493884		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: WLCSW1-022820	Units: mg/L		Analysis Date: 28-Feb-2020 14:20					
Client ID:	Run ID: ICS-Integrion_357301		SeqNo: 5493885		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	20.01	0.500	20	0	100	90 - 110			
LCSD	Sample ID: WLCSDW1-022820	Units: mg/L		Analysis Date: 28-Feb-2020 14:38					
Client ID:	Run ID: ICS-Integrion_357301		SeqNo: 5493886		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	19.89	0.500	20	0	99.4	90 - 110	20.01	0.637	20
MS	Sample ID: HS20020929-05MS	Units: mg/L		Analysis Date: 28-Feb-2020 17:58					
Client ID:	Run ID: ICS-Integrion_357301		SeqNo: 5493897		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	60.31	0.500	10	51.28	90.3	80 - 120			O
MSD	Sample ID: HS20020929-05MSD	Units: mg/L		Analysis Date: 28-Feb-2020 18:16					
Client ID:	Run ID: ICS-Integrion_357301		SeqNo: 5493900		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	60.23	0.500	10	51.28	89.5	80 - 120	60.31	0.131	20 O
The following samples were analyzed in this batch: HS20020924-03									

ALS Houston, US

Date: 29-Feb-20

Client: Glenn Springs Holdings, Inc.
Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
WorkOrder: HS20020924

**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: 29-Feb-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: 29-Feb-20

Sample Receipt Checklist

Client Name: Glen Springs/CRA

Date/Time Received: **21-Feb-2020 08:35**

Work Order: HS20020924

Received by: **AC**

Checklist completed by: Jared R. Makan 21-Feb-2020
eSignature Date

Reviewed by: Dane J. Wacasey 25-Feb-2020
eSignature Date

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

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	1 Page(s)
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	COC IDs:215027
Samplers name present on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	1.7°C/1.7°C UC/C IR25		
Cooler(s)/Kit(s):	44955		
Date/Time sample(s) sent to storage:	02/21/2020 13:45		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
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: 215027

HS20020924

v

Glenn Springs Holdings, Inc.
55625DM GSHI PXP Hill EC B ATB at Well 24


Customer Information		Project Information		ALS Project Manager:	
Purchase Order	4502201559 ENV 749-402-D02-110	Project Name	GSHI PXP Hill EC B ATB at Well 24	A	8260_W (BTEX)
Work Order		Project Number	55625DM (ENV749A007)	B	300_W (Chloride)
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.	C	8260_W (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	MW-1			Groundwa	1.8	4	X	X									
2	MW-2	2-20-20	1135	Groundwa	1.8	4	X	X									
3	MW-3	2-20-20	1220	Groundwa	1.8	4	X	X									
4	MW-4			Groundwa	1.8	4	X	X									
5	RW-1			Groundwa	1.8	4	X	X									
6	DUP	2-20-20		Groundwa	1.8	4	X	X									
7	Trip Blank			Water	1	2			X								
8																	
9																	
10																	

Sampler(s) Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)		Results Due Date:	
Relinquished by: <i>Preston Poirer</i> Relinquished by: <i>RL</i> Logged by (Laboratory):		Date: 2-20-20 Time: 1630 Date: 2/21/2020 Time: 08135		FedEx Received by: <i>AL</i> Received by (Laboratory): Checked by (Laboratory):		<input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 1 Wk Days <input type="checkbox"/> 24 Hour	
Notes: [GSHI PXP Hill EC B ATB at 24]				Cooler ID: 44955 Cooler Temp: 1.7 QC Package: (Check One Box Below)			
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				<input checked="" type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Str. QC/Raw Date <input type="checkbox"/> Level IV SW-B43/CLP <input type="checkbox"/> 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.

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>2-20-20</i> Time: <i>1630</i>	Name: <i>Harsha K. Reddy</i>	
	Company: <i>Tetra Tech</i>		Date: <i>02/21/20</i>



Must Deliver Next Business Day
Time and Temperature Sensitive!

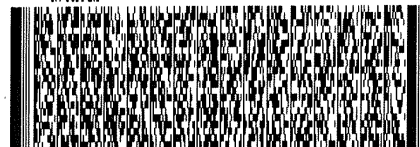
ORIGIN ID: SGRA (432) 682-4559
 NIKE CARMONA
 GSHI-TETRA TECH
 901 WEST WALL STREET
 SUITE 100
 MIDLAND, TX 79701
 UNITED STATES US

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) 530-5888
 REF: PXP HILL - DW

RMA: ||| ||| |||



FedEx
Express

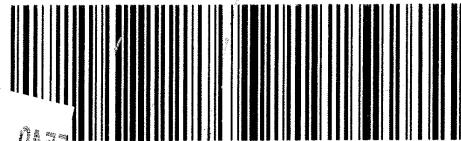


FedEx
 TRK# 1251 0294 5540
 0221

FRI - 21 FEB 10:30A
PRIORITY OVERNIGHT

AB SGRA

77099
 TX-US IAH



20 568J2/049E/FE4A



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

August 24, 2020

James Abston
Glenn Springs Holdings, Inc.
PO Box 2148
Houston, TX 77252-2148

Work Order: **HS20080597**

Laboratory Results for: **55625DM GSHI PXP Hill EC B ATB at Well 24**

Dear James Abston ,

ALS Environmental received 4 sample(s) on Aug 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: DAYNA.FISHER

Dane J. Wacasey

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
Work Order: HS20080597

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20080597-01	MW-2	Groundwater		12-Aug-2020 13:15	13-Aug-2020 09:15	<input type="checkbox"/>
HS20080597-02	MW-3	Groundwater		12-Aug-2020 14:20	13-Aug-2020 09:15	<input type="checkbox"/>
HS20080597-03	DUP	Groundwater		12-Aug-2020 00:00	13-Aug-2020 09:15	<input type="checkbox"/>
HS20080597-04	Trip Blank	Water	CG-070820 -175	12-Aug-2020 00:00	13-Aug-2020 09:15	<input type="checkbox"/>

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
Work Order: HS20080597

CASE NARRATIVE

GCMS Volatiles by Method SW8260

Batch ID: R366845,R366924

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

WetChemistry by Method E300

Batch ID: R367311

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

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
 Sample ID: MW-2
 Collection Date: 12-Aug-2020 13:15

ANALYTICAL REPORT

WorkOrder:HS20080597
 Lab ID:HS20080597-01
 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	14-Aug-2020 21:55
Ethylbenzene	U		0.50	5.0	ug/L	1	14-Aug-2020 21:55
Toluene	U		0.50	5.0	ug/L	1	14-Aug-2020 21:55
Xylenes, Total	U		0.50	5.0	ug/L	1	14-Aug-2020 21:55
Surr: 1,2-Dichloroethane-d4	105			70-126	%REC	1	14-Aug-2020 21:55
Surr: 4-Bromofluorobenzene	94.2			82-124	%REC	1	14-Aug-2020 21:55
Surr: Dibromofluoromethane	102			77-123	%REC	1	14-Aug-2020 21:55
Surr: Toluene-d8	101			82-127	%REC	1	14-Aug-2020 21:55
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	268		4.00	10.0	mg/L	20	22-Aug-2020 09:19

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

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
 Sample ID: MW-3
 Collection Date: 12-Aug-2020 14:20

ANALYTICAL REPORT

WorkOrder:HS20080597
 Lab ID:HS20080597-02
 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	14-Aug-2020 22:20
Ethylbenzene	U		0.50	5.0	ug/L	1	14-Aug-2020 22:20
Toluene	U		0.50	5.0	ug/L	1	14-Aug-2020 22:20
Xylenes, Total	U		0.50	5.0	ug/L	1	14-Aug-2020 22:20
Surr: 1,2-Dichloroethane-d4	108			70-126	%REC	1	14-Aug-2020 22:20
Surr: 4-Bromofluorobenzene	95.0			82-124	%REC	1	14-Aug-2020 22:20
Surr: Dibromofluoromethane	107			77-123	%REC	1	14-Aug-2020 22:20
Surr: Toluene-d8	99.6			82-127	%REC	1	14-Aug-2020 22:20
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	164		4.00	10.0	mg/L	20	22-Aug-2020 09:37

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

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
 Sample ID: DUP
 Collection Date: 12-Aug-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20080597
 Lab ID:HS20080597-03
 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	14-Aug-2020 22:44
Ethylbenzene	U		0.50	5.0	ug/L	1	14-Aug-2020 22:44
Toluene	U		0.50	5.0	ug/L	1	14-Aug-2020 22:44
Xylenes, Total	U		0.50	5.0	ug/L	1	14-Aug-2020 22:44
Surr: 1,2-Dichloroethane-d4	105			70-126	%REC	1	14-Aug-2020 22:44
Surr: 4-Bromofluorobenzene	94.6			82-124	%REC	1	14-Aug-2020 22:44
Surr: Dibromofluoromethane	105			77-123	%REC	1	14-Aug-2020 22:44
Surr: Toluene-d8	100			82-127	%REC	1	14-Aug-2020 22:44
ANIONS BY E300.0		Method:E300				Analyst: YP	
Chloride	158		4.00	10.0	mg/L	20	22-Aug-2020 09:55

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

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
 Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
 Sample ID: Trip Blank
 Collection Date: 12-Aug-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20080597
 Lab ID:HS20080597-04
 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	17-Aug-2020 16:50
Ethylbenzene	U		0.50	5.0	ug/L	1	17-Aug-2020 16:50
Toluene	U		0.50	5.0	ug/L	1	17-Aug-2020 16:50
Xylenes, Total	U		0.50	5.0	ug/L	1	17-Aug-2020 16:50
Surr: 1,2-Dichloroethane-d4	101			70-126	%REC	1	17-Aug-2020 16:50
Surr: 4-Bromofluorobenzene	95.2			82-124	%REC	1	17-Aug-2020 16:50
Surr: Dibromofluoromethane	105			77-123	%REC	1	17-Aug-2020 16:50
Surr: Toluene-d8	98.1			82-127	%REC	1	17-Aug-2020 16:50

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

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
WorkOrder: HS20080597

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R366845 (0)		Test Name : VOLATILES - SW8260C			Matrix: Groundwater	
HS20080597-01	MW-2	12 Aug 2020 13:15			14 Aug 2020 21:55	1
HS20080597-02	MW-3	12 Aug 2020 14:20			14 Aug 2020 22:20	1
HS20080597-03	DUP	12 Aug 2020 00:00			14 Aug 2020 22:44	1
Batch ID: R366924 (0)		Test Name : VOLATILES - SW8260C			Matrix: Water	
HS20080597-04	Trip Blank	12 Aug 2020 00:00			17 Aug 2020 16:50	1
Batch ID: R367311 (0)		Test Name : ANIONS BY E300.0			Matrix: Groundwater	
HS20080597-01	MW-2	12 Aug 2020 13:15			22 Aug 2020 09:19	20
HS20080597-02	MW-3	12 Aug 2020 14:20			22 Aug 2020 09:37	20
HS20080597-03	DUP	12 Aug 2020 00:00			22 Aug 2020 09:55	20

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
WorkOrder: HS20080597

QC BATCH REPORT

Batch ID: R366845 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C					
MBLK	Sample ID: VBLKW-200814	Units: ug/L		Analysis Date: 14-Aug-2020 13:19					
Client ID:	Run ID: VOA9_366845	SeqNo: 5702327		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	51.66	0	50	0	103	70 - 130			
Surr: 4-Bromofluorobenzene	47.65	0	50	0	95.3	82 - 115			
Surr: Dibromofluoromethane	51.93	0	50	0	104	73 - 126			
Surr: Toluene-d8	49.25	0	50	0	98.5	81 - 120			

LCS	Sample ID: VLCSW-200814	Units: ug/L		Analysis Date: 14-Aug-2020 12:30					
Client ID:	Run ID: VOA9_366845	SeqNo: 5702326		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	19.17	5.0	20	0	95.8	74 - 120			
Ethylbenzene	18.32	5.0	20	0	91.6	77 - 117			
Toluene	18.56	5.0	20	0	92.8	77 - 118			
Xylenes, Total	57.3	5.0	60	0	95.5	75 - 122			
Surr: 1,2-Dichloroethane-d4	48.17	0	50	0	96.3	70 - 130			
Surr: 4-Bromofluorobenzene	49.58	0	50	0	99.2	82 - 115			
Surr: Dibromofluoromethane	50.24	0	50	0	100	73 - 126			
Surr: Toluene-d8	49.9	0	50	0	99.8	81 - 120			

MS	Sample ID: HS20080562-01MS	Units: ug/L		Analysis Date: 14-Aug-2020 14:33					
Client ID:	Run ID: VOA9_366845	SeqNo: 5702330		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	22.08	5.0	20	0	110	70 - 127			
Ethylbenzene	21.96	5.0	20	0	110	70 - 124			
Toluene	21.85	5.0	20	0	109	70 - 123			
Xylenes, Total	67.41	5.0	60	0	112	70 - 130			
Surr: 1,2-Dichloroethane-d4	50.54	0	50	0	101	70 - 126			
Surr: 4-Bromofluorobenzene	50.16	0	50	0	100	82 - 124			
Surr: Dibromofluoromethane	51.58	0	50	0	103	77 - 123			
Surr: Toluene-d8	50.27	0	50	0	101	82 - 127			

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
WorkOrder: HS20080597

QC BATCH REPORT

Batch ID: R366845 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C					
MSD		Sample ID: HS20080562-01MSD		Units: ug/L		Analysis Date: 14-Aug-2020 14:57			
Client ID:		Run ID: VOA9_366845		SeqNo: 5702331		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	21.92	5.0	20	0	110	70 - 127	22.08	0.724	20
Ethylbenzene	21.96	5.0	20	0	110	70 - 124	21.96	0.0326	20
Toluene	21.66	5.0	20	0	108	70 - 123	21.85	0.862	20
Xylenes, Total	66.97	5.0	60	0	112	70 - 130	67.41	0.651	20
Surr: 1,2-Dichloroethane-d4	50.45	0	50	0	101	70 - 126	50.54	0.176	20
Surr: 4-Bromofluorobenzene	50.51	0	50	0	101	82 - 124	50.16	0.701	20
Surr: Dibromofluoromethane	51.31	0	50	0	103	77 - 123	51.58	0.522	20
Surr: Toluene-d8	50.55	0	50	0	101	82 - 127	50.27	0.56	20
The following samples were analyzed in this batch:									
HS20080597-01 HS20080597-02 HS20080597-03									

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
WorkOrder: HS20080597

QC BATCH REPORT

Batch ID: R366924 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C					
MBLK	Sample ID: VBLKW-200817	Units: ug/L		Analysis Date: 17-Aug-2020 15:12					
Client ID:	Run ID: VOA9_366924	SeqNo: 5703865		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	49.41	0	50	0	98.8	70 - 130			
Surr: 4-Bromofluorobenzene	46.84	0	50	0	93.7	82 - 115			
Surr: Dibromofluoromethane	51.49	0	50	0	103	73 - 126			
Surr: Toluene-d8	50.27	0	50	0	101	81 - 120			

LCS	Sample ID: VLCSW-200817	Units: ug/L		Analysis Date: 17-Aug-2020 14:23					
Client ID:	Run ID: VOA9_366924	SeqNo: 5703864		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	19.7	5.0	20	0	98.5	74 - 120			
Ethylbenzene	18.93	5.0	20	0	94.7	77 - 117			
Toluene	19	5.0	20	0	95.0	77 - 118			
Xylenes, Total	58.92	5.0	60	0	98.2	75 - 122			
Surr: 1,2-Dichloroethane-d4	47.67	0	50	0	95.3	70 - 130			
Surr: 4-Bromofluorobenzene	49.43	0	50	0	98.9	82 - 115			
Surr: Dibromofluoromethane	50.07	0	50	0	100	73 - 126			
Surr: Toluene-d8	49.73	0	50	0	99.5	81 - 120			

MS	Sample ID: HS20080611-01MS	Units: ug/L		Analysis Date: 17-Aug-2020 16:01					
Client ID:	Run ID: VOA9_366924	SeqNo: 5703867		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	21.92	5.0	20	0	110	70 - 127			
Ethylbenzene	21.83	5.0	20	0	109	70 - 124			
Toluene	21.42	5.0	20	0	107	70 - 123			
Xylenes, Total	66.44	5.0	60	0	111	70 - 130			
Surr: 1,2-Dichloroethane-d4	49.95	0	50	0	99.9	70 - 126			
Surr: 4-Bromofluorobenzene	50.91	0	50	0	102	82 - 124			
Surr: Dibromofluoromethane	51.08	0	50	0	102	77 - 123			
Surr: Toluene-d8	50.9	0	50	0	102	82 - 127			

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
WorkOrder: HS20080597

QC BATCH REPORT

Batch ID: R366924 (0)		Instrument: VOA9		Method: VOLATILES - SW8260C					
MSD	Sample ID: HS20080611-01MSD	Units: ug/L		Analysis Date: 17-Aug-2020 16:25					
Client ID:	Run ID: VOA9_366924	SeqNo: 5703868		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	21.86	5.0	20	0	109	70 - 127	21.92	0.307	20
Ethylbenzene	21.92	5.0	20	0	110	70 - 124	21.83	0.412	20
Toluene	21.59	5.0	20	0	108	70 - 123	21.42	0.776	20
Xylenes, Total	66.79	5.0	60	0	111	70 - 130	66.44	0.52	20
Surr: 1,2-Dichloroethane-d4	49.28	0	50	0	98.6	70 - 126	49.95	1.35	20
Surr: 4-Bromofluorobenzene	49.61	0	50	0	99.2	82 - 124	50.91	2.58	20
Surr: Dibromofluoromethane	51.29	0	50	0	103	77 - 123	51.08	0.414	20
Surr: Toluene-d8	50.45	0	50	0	101	82 - 127	50.9	0.896	20

The following samples were analyzed in this batch: HS20080597-04

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
WorkOrder: HS20080597

QC BATCH REPORT

Batch ID: R367311 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0					
MBLK	Sample ID: MBLK-082120	Units: mg/L		Analysis Date: 22-Aug-2020 20:08					
Client ID:	Run ID: ICS-Integrion_367311		SeqNo: 5712004		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-082120	Units: mg/L		Analysis Date: 24-Aug-2020 10:47					
Client ID:	Run ID: ICS-Integrion_367311		SeqNo: 5712034		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	19.38	0.500	20	0	96.9	90 - 110			
MS	Sample ID: HS20080723-07MS	Units: mg/L		Analysis Date: 22-Aug-2020 23:27					
Client ID:	Run ID: ICS-Integrion_367311		SeqNo: 5712014		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	41.53	0.500	10	31.17	104	80 - 120			
MS	Sample ID: HS20080614-02MS	Units: mg/L		Analysis Date: 23-Aug-2020 09:21					
Client ID:	Run ID: ICS-Integrion_367311		SeqNo: 5712027		PrepDate:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	227.2	5.00	100	127.8	99.4	80 - 120			
MSD	Sample ID: HS20080723-07MSD	Units: mg/L		Analysis Date: 22-Aug-2020 23:45					
Client ID:	Run ID: ICS-Integrion_367311		SeqNo: 5712015		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	40.59	0.500	10	31.17	94.3	80 - 120	41.53	2.27	20
MSD	Sample ID: HS20080614-02MSD	Units: mg/L		Analysis Date: 23-Aug-2020 09:39					
Client ID:	Run ID: ICS-Integrion_367311		SeqNo: 5712028		PrepDate:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	222.7	5.00	100	127.8	94.9	80 - 120	227.2	2.01	20
The following samples were analyzed in this batch:									
		HS20080597-01		HS20080597-02		HS20080597-03			

ALS Houston, US

Date: 24-Aug-20

Client: Glenn Springs Holdings, Inc.
Project: 55625DM GSHI PXP Hill EC B ATB at Well 24
WorkOrder: HS20080597

**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: 24-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: 24-Aug-20

Sample Receipt Checklist

Work Order ID: HS20080597

Date/Time Received: 13-Aug-2020 09:15

Client Name: Glen Springs/CRA

Received by: Paresh M. Giga

Completed By: <u>/S/ Niles D. Ranchod</u>	14-Aug-2020 13:16	Reviewed by: <u>/S/ Corey Grandits</u>	18-Aug-2020 13:14
eSignature	Date/Time	eSignature	Date/Time

Matrices: WaterCarrier name: FedEx Priority Overnight

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	1 Page(s)
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	COC IDs:225065
Samplers name present on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Temperature(s)/Thermometer(s):

0.5C UC/C IR # 31

Cooler(s)/Kit(s):

25774

Date/Time sample(s) sent to storage:

08/13/2020 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:

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

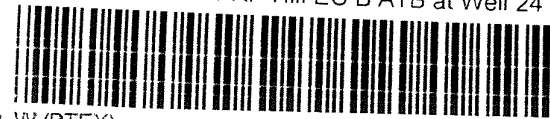
Chain of Custody Form

Page 1 of 1

COC ID: 225065

HS20080597

WV

Glenn Springs Holdings, Inc.
55625DM GSHI PXP Hill EC B ATB at Well 24

Customer Information		Project Information		ALS Project Manager:	
Purchase Order	4502201559 ENV 749-402-D02-110	Project Name	GSHI PXP Hill EC B ATB at Well 24	A	8260_W (BTEx)
Work Order		Project Number	55625DM (ENV749A007)	B	300_W (Chloride)
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.	C	8260_W (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	Chem_GSH@oxy.com	I	
				J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1			Groundwa	1,8	4	X	X									
2	MW-2	8-12-20	1315	Groundwa	1,8	4	X	X									
3	MW-3	8-12-20	1420	Groundwa	1,8	4	X	X									
4	MW-4			Groundwa	1,8	4	X	X									
5	BW-1			Groundwa	1,8	4	X	X									
6	DUP	8-12-20	—	Groundwa	1,8	4	X	X									
7	Trip Blank	—	—	Water	1	2			X								
8																	
9																	
10																	

Sampler(s) Please Print & Sign <i>Phoston Paterist</i>		Shipment Method FedEx		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour		Results Due Date:	
Relinquished by: <i>Phoston Paterist</i>	Date: 8-12-20	Time: 1630	Received by:	Notes: [GSHI PXP Hill EC B ATB at 24]			
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	25714	4.5	<input checked="" type="checkbox"/> Level II Std QC	<input type="checkbox"/> TRRP Checklist
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				A31		<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV
						<input type="checkbox"/> Level IV SW846/CLP	
						<input type="checkbox"/> 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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	ALS	Date: Name: Comp:
	10450 Stancliff Rd., Suite 210	
	Houston, Texas 77099	
	Tel. +1 281 530 5656	
	Fax. +1 281 530 5887	

CUSTODY SEAL		Seal Broken By:
Time: 8:12:30	Time: 1630	Date: 8/13
any: FE		

TRK# 0221	1891 8879 0484	RETURNS MON-SAT PRIORITY OVERNIGHT
		77099
		TX-US



District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

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 16683

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number: 16683
	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. Continued semi-annual groundwater monitoring and PSH recovery system operation 2. Submit the Annual Monitoring Report to the OCD no later than March 31, 2022	12/28/2021