TETRA TECH

April 6, 2020

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

Re: 2015 to 2018 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 quarterly sampling events that occurred in 2015 and 2016, and the semiannual sampling events that occurred in 2017 and 2018, performed at the OXY USA, Inc. (OXY) E. C. Hill Federal B-D and E.C. Hill Federal #7 Tank Battery (Site). The two sites are located adjacent to one another approximately 9 miles north/northeast of Jal, Lea County, New Mexico. Due to the close proximity to one another 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 have had numerous 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

Tetra Tech
901 W. Wall Street, Suite 100 Midland, TX 79701
Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com

TETRA TECH

(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.

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 40 a depth of 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 site.

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.

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2015 Soil Investigation

In 2015 additional soil investigation was performed at the site. 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. The laboratory report and analytical results, soil boring locations and soil boring logs are included in **Appendix C**.

2015 to 2018 GAUGING AND MONITOR WELL SAMPLING

Tetra Tech Inc. personnel were onsite to gauge all monitor wells quarterly during 2015 and 2016. In 2017 and 2018, all monitor wells were gauged in the first and third quarters. 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 sampling events utilizing the water level elevation calculations indicate a groundwater gradient to the southeast. Groundwater gradient maps for 2015, 2016, 2017, and 2018 sampling events are included as **Figures 4 through 8**.

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, MW-8, and MW-9 were below NMWQCC standards during all 2015, 2016, 2017 and 2018 sampling events. The chloride analytical results for monitor wells MW-5 and MW-7 exceeded the NMWQCC standards during all the 2015, 2016, 2017 and 2018 sampling events.

In monitor well MW-5, chloride concentrations ranged from 554 mg/L to 787 mg/L. In Monitor well MW-7, chloride concentrations ranged from 683 mg/L to 1820 mg/L. Chloride analytical results for monitor wells MW-1, MW-3, and MW-4 exceeded the NMWQCC standards during some of the sampling events. Monitor well MW-1, chloride concentrations ranged from 148 mg/L to 407 mg/L. Monitor well MW-3,

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chloride concentrations ranged from 145 mg/L to 302 mg/L. Monitor well MW-4 chloride concentrations ranged from 208 mg/L to 644 mg/L. Analytical results are shown 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 wells MW-2, MW-6, MW-8, and MW-9 indicate generally stable chloride concentrations below the NWWQCC standard. The graphs for monitor wells MW-1 and MW-3 indicate fluctuating chloride concentrations. The graphs for monitor well MW-4 and MW-5 indicate generally increasing chloride concentrations. The graph for monitor well MW-7 indicates generally decreasing chloride concentrations.

Chloride concentration maps for 2015, 2016, 2017, and 2018 sampling events are included as **Figures 9 through 13**. 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

Fourteen (14) pumping and sampling events were conducted from October 2015 through November 29, 2018. For 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 sampling and samples are collected at one hundred-gallon intervals. The groundwater samples are analyzed for chlorides. In general, chloride concentrations decreased with pumping for each of the events. Laboratory reports and analytical results are included in **Appendix D**.

CONCLUSIONS

1. Based on soil boring installation and sampling conducted in 2015, 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.
2. Chloride concentrations for monitor wells MW-1, MW-3, MW-4, MW-5 and MW-7 exceed the NMWQCC standard of 250 mg/L.
3. Chloride concentrations for monitor wells MW-2, MW-6, MW-8 and MW-9 were below the NMWQCC standard of 250 mg/L for all 2015, 2016, 2017 and2018 sampling events.
4. Analytical results indicate that at all four monitor wells sampled have BTEX concentrations below the method detection limits.
5. The graphs for monitor wells MW-2, MW-3, MW-6, MW-8, and MW-9 indicate generally stable chloride concentrations below the NWWQCC standard. The graphs for monitor wells MW-1 and MW-3 indicate fluctuating chloride

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concentrations. The graphs for monitor well MW-4 and MW-5 indicate generally increasing chloride concentrations. The graph for monitor well MW-7 indicates generally decreasing chloride concentrations.

6. Fourteen (14) pumping and sampling events were conducted on monitor well MW-7 during the report period. For 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 sampling and samples are collected at one hundred-gallon intervals.

PROPOSED 2019 GROUNDWATER MONITORING PROGRAM

Continued semi-annual groundwater monitoring is proposed for 2019.

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.

Ray Cheatham
Client Account Manager
Principal Geologist

Mike Carmona
Project Manager

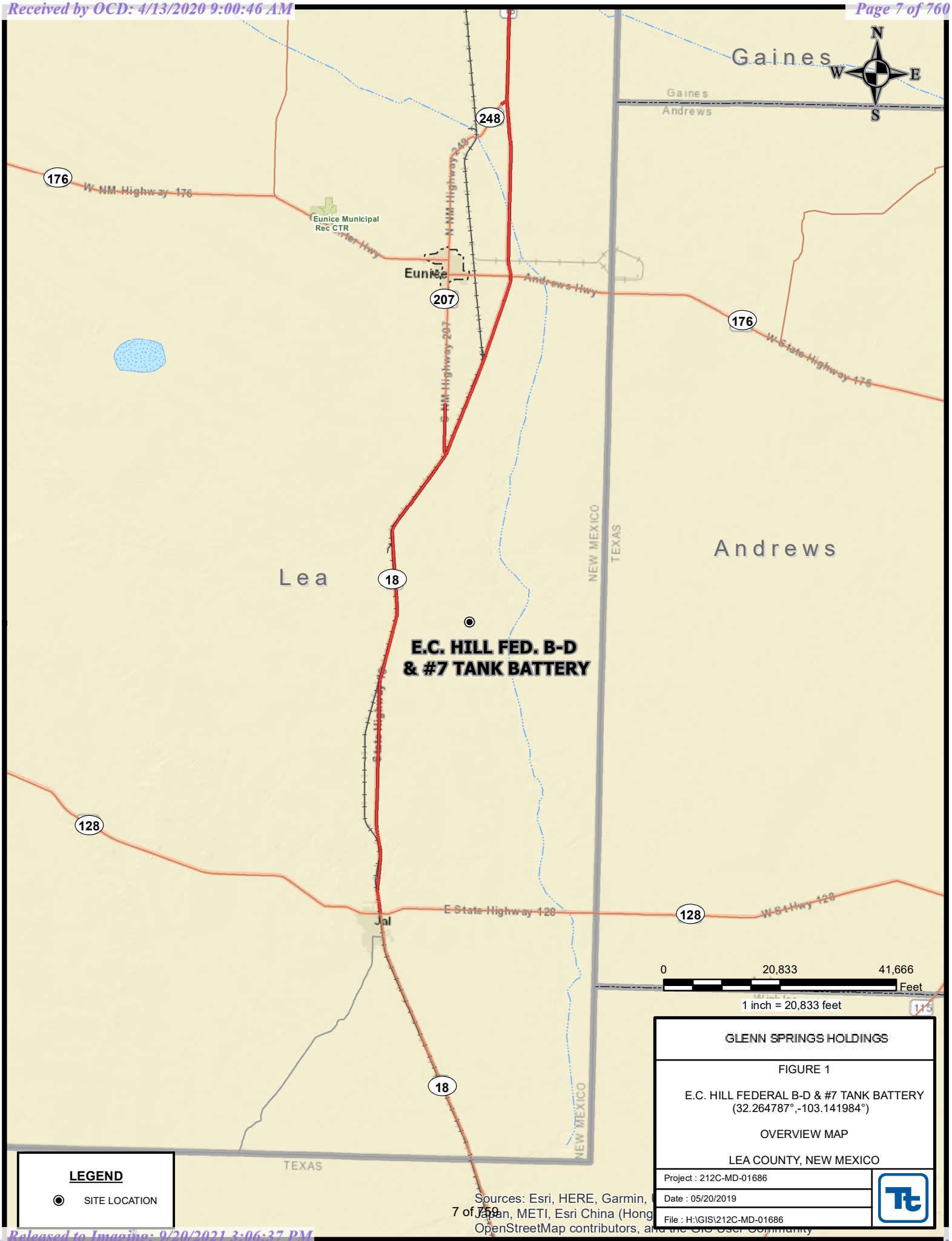
Attachments:
Figures
Tables
Appendix A – Graphs
Appendix B – Lab Reports
Appendix C- 2015 Soil Investigation
Appendix D- MW-7 Pumping and Sampling

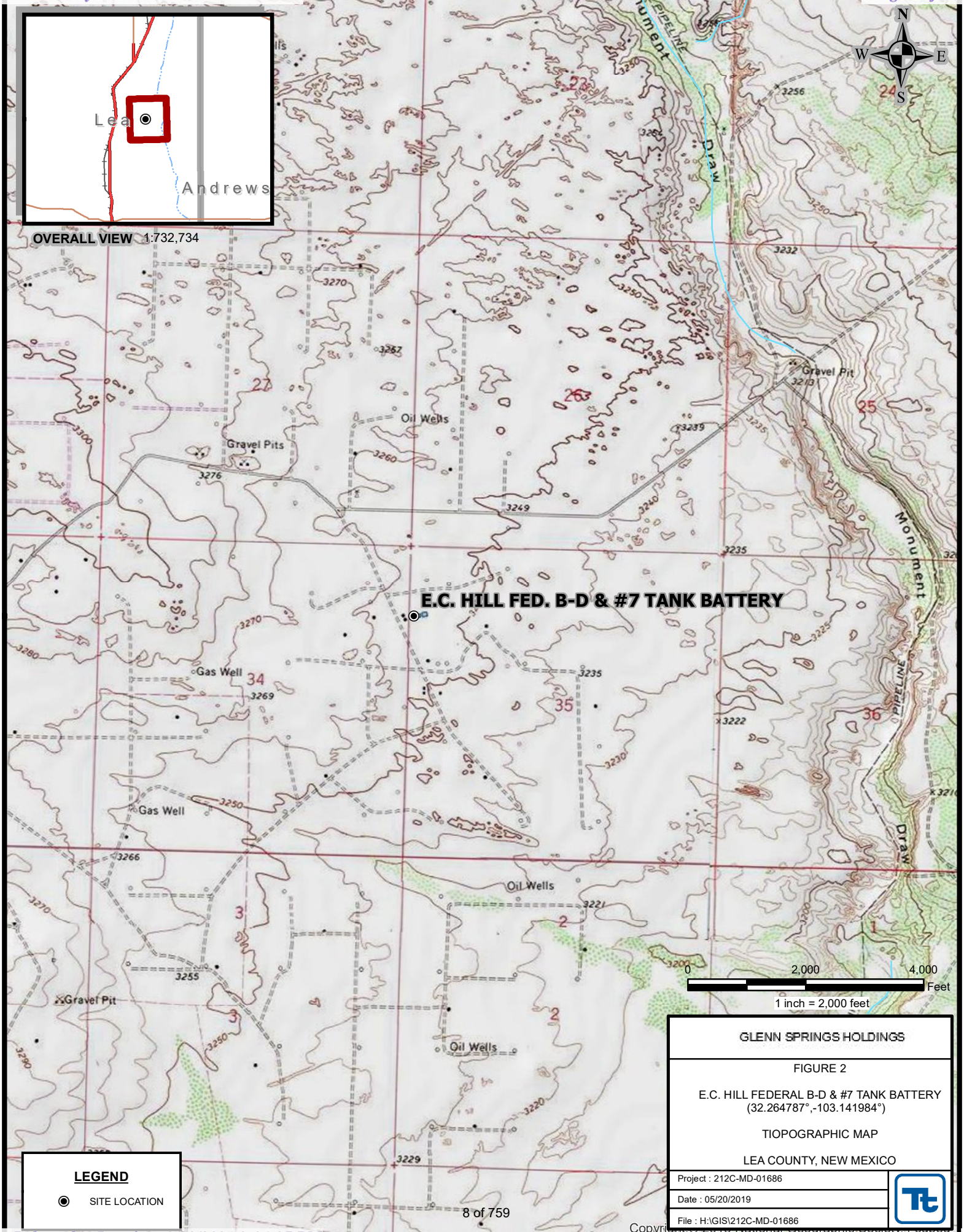
cc: Dusty Wilson – Glenn Springs Holdings, Inc.

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Figures

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Gaines
N
W
E
S
Gaines
Andrews
248
176
W NM Highway 176
Eunice Municipal Rec CTR
N NM Highway 248
Eunice
207
S NM Highway 207
Andrews Hwy
176
W State Highway 176
NEW MEXICO
TEXAS
Andrews
Lea
18
E.C. HILL FED. B-D
& #7 TANK BATTERY
128
Jal
E State Highway 128
128
W St Hwy 128
0
20,833
41,666
Feet
1 inch = 20,833 feet
18
NEW MEXICO
TEXAS
LEGEND
SITE LOCATION
Sources: Esri, HERE, Garmin,
Japan, METI, Esri China (Hong
OpenStreetMap contributors, and the GIS User Community
GLENN SPRINGS HOLDINGS
FIGURE 1
E.C. HILL FEDERAL B-D & #7 TANK BATTERY
(32.264787°,-103.141984°)
OVERVIEW MAP
LEA COUNTY, NEW MEXICO
Project : 212C-MD-01686
Date : 05/20/2019
File : H:\GIS\212C-MD-01686
MAPPED BY: MISTI MORGAN
SOURCE BY: ESRI



GLENN SPRINGS HOLDINGS

FIGURE 2

E.C. HILL FEDERAL B-D & #7 TANK BATTERY
(32.264787°,-103.141984°)

TIOPOGRAPHIC MAP

LEA COUNTY, NEW MEXICO

Project : 212C-MD-01686

Date : 05/20/2019

File : H:\GIS\212C-MD-01686

MAPPED BY: MISTI MORGAN

SOURCE BY: ESRI

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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

Project: 212C-MD-01686	REV.
Date: 7/7/2019	
File: H:\Acad Data\GLENN SPRINGS\2015\212C-MD-01686 EC HILL FED #7	

Page 10 of 760



FIGURE NO. 4

LEGEND

- MONITOR WELL LOCATIONS
- 3178.00 — GROUNDWATER ELEVATION CONTOUR INTERVAL = .50 FT.
- 3178.54 — GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- APPARENT GROUNDWATER GRADIENT

NOTES:

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

GLENN SPRINGS HOLDINGS

NORTH

0 20 60ft

GROUNDWATER GRADIENT MAP
SEPTEMBER 09, 2015

E.C. HILL FEDERAL #7 & B, D TB
LEA COUNTY, NEW MEXICO

Project: 212C-MD-01686	REV.
Date: 7/30/2019	
File: H:\Acad Data\GLENN SPRINGS\2015\212C-MD-01686 EC HILL FED #7	

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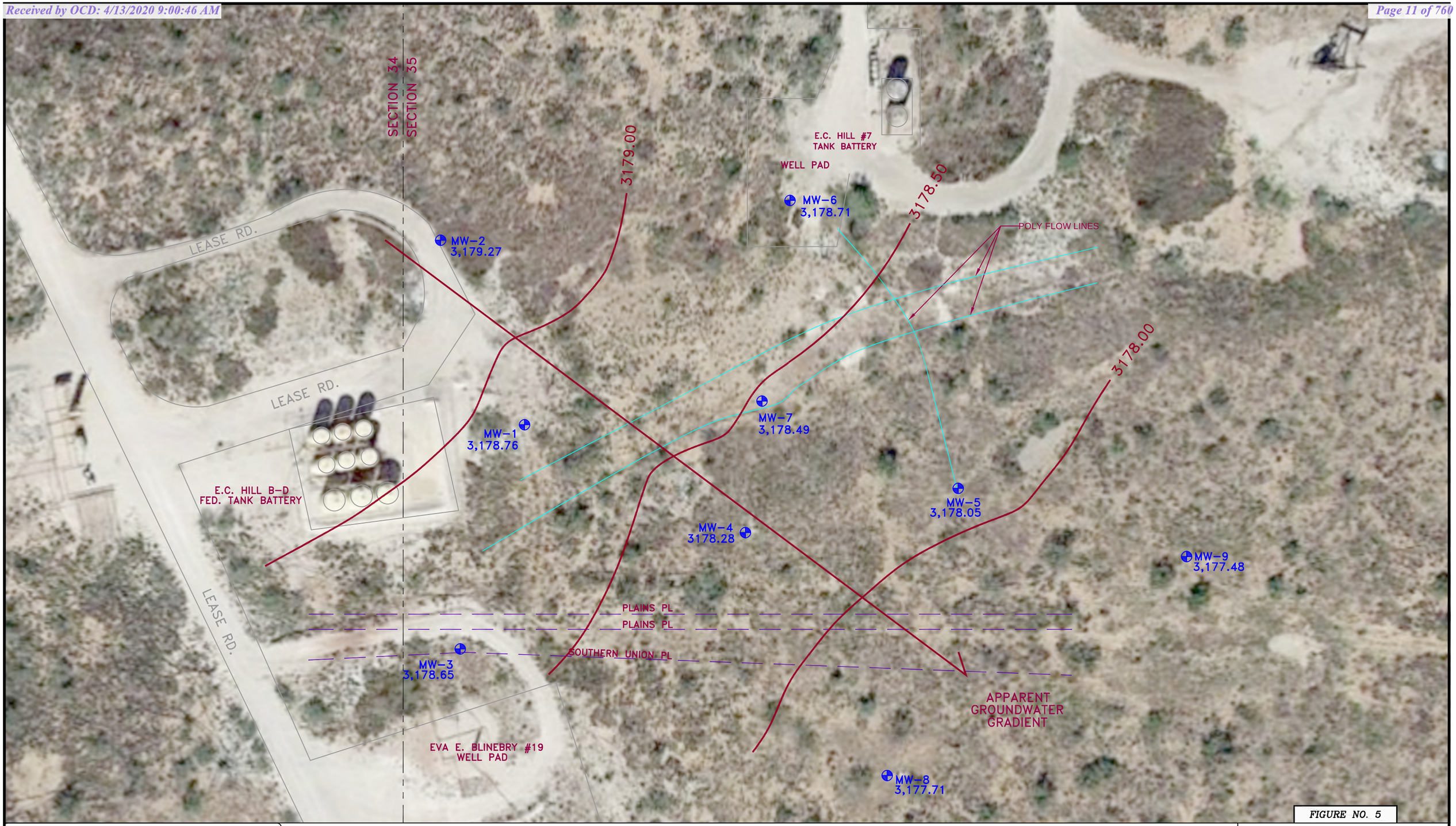


FIGURE NO. 5

LEGEND

- MONITOR WELL LOCATIONS
- 3178.00 — GROUNDWATER ELEVATION CONTOUR INTERVAL = .50 FT.
- 3178.65 — GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- APPARENT GROUNDWATER GRADIENT

NOTES:

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

GLENN SPRINGS HOLDINGS

NORTH

0 20 60ft

GROUNDWATER GRADIENT MAP
SEPTEMBER 07, 2016

E.C. HILL FEDERAL #7 & B, D TB
LEA COUNTY, NEW MEXICO

Project: 212C-MD-01686
Date: 8/6/2019

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SECTION 34
SECTION 35

3179.00

3178.50

3178.00

E.C. HILL #7
TANK BATTERY

WELL PAD

MW-6
3,178.73

MW-2
3,179.06

POLY FLOW LINES

LEASE RD.

LEASE RD.

MW-1
3,178.78

MW-7
3,178.45

MW-5
3,178.04

E.C. HILL B-D
FED. TANK BATTERY

MW-4
3178.30

MW-9
3,177.54

LEASE RD.

PLAINS PL

PLAINS PL

MW-3
3,178.60

SOUTHERN UNION PL

APPARENT
GROUNDWATER
GRADIENT

EVA E. BLINEBRY #19
WELL PAD

MW-8
3,177.67

FIGURE NO. 6

LEGEND

- MONITOR WELL LOCATIONS
- 3178.00 — GROUNDWATER ELEVATION CONTOUR INTERVAL = .50 FT.
- 3178.60 — GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- APPARENT GROUNDWATER GRADIENT

NOTES:

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

GLENN SPRINGS HOLDINGS

NORTH

0 20 60ft

GROUNDWATER GRADIENT MAP
AUGUST 29, 2017

E.C. HILL FEDERAL #7 & B, D TB
LEA COUNTY, NEW MEXICO

Project: 212C-MD-01686
Date: 7/31/2019
File: H:\Acad Data\GLENN SPRINGS\2017\212C-MD-01686 EC HILL FED #7

REV.

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FIGURE NO. 7

LEGEND

- MONITOR WELL LOCATIONS
- 3178.00 — GROUNDWATER ELEVATION CONTOUR INTERVAL = .25 FT.
- 3178.67 — GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- APPARENT GROUNDWATER GRADIENT

NOTES:

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

GLENN SPRINGS HOLDINGS

NORTH

0 20 60ft

GROUNDWATER GRADIENT MAP
FEBRUARY 20, 2018

E.C. HILL FEDERAL #7 & B, D TB
LEA COUNTY, NEW MEXICO

Project: 212C-MD-01686
Date: 7/31/2019
REV.

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SECTION 34
SECTION 35

LEASE RD.

LEASE RD.

LEASE RD.

E.C. HILL B-D
FED. TANK BATTERY

WELL PAD

MW-6
3,178.77

MW-2
3,179.31

3179.00

3178.75

POLY FLOW LINES

3178.50

3178.00

MW-1
3,178.81

MW-7
3,178.67

MW-5
3,177.84

MW-4
3178.37

MW-9
3,177.62

PLAINS PL

PLAINS PL

MW-3
3,178.65

SOUTHERN UNION PL

EVA E. BLINEBRY #19
WELL PAD

MW-8
3,177.73

APPARENT
GROUNDWATER
GRADIENT

FIGURE NO. 8

LEGEND

- MONITOR WELL LOCATIONS
- 3178.00 — GROUNDWATER ELEVATION CONTOUR INTERVAL = .25 FT.
- 3178.65 — GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- APPARENT GROUNDWATER GRADIENT

NOTES:

TETRA TECH
901 W. WALL STREET STE. 101
MIDLAND, TEXAS
(432) 682-4559

GLENN SPRINGS HOLDINGS

NORTH

0 20 50ft

GROUNDWATER GRADIENT MAP
SEPTEMBER 11, 2018

E.C. HILL FEDERAL #7 & B, D TB
LEA COUNTY, NEW MEXICO

Project: 212C-MD-01686
Date: 7/31/2019

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LEGEND

- MONITOR WELL LOCATIONS
- 250 CHLORIDE CONCENTRATION ELEVATION

NOTES:

TETRA TECH
901 W. WALL STREET STE. 101
MIDLAND, TEXAS

GLENN SPRINGS HOLDINGS

NORTH

0 20 50ft

FIGURE NO. 9

CHLORIDE CONCENTRATION MAP
DECEMBER 18, 2015

E.C. HILL FEDERAL #7 & B, D TB
LEA COUNTY, NEW MEXICO

Project: 212C-MD-01686
Date: 7/31/2019
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SECTION 34
SECTION 35
LEASE RD.
LEASE RD.
LEASE RD.
E.C. HILL B-D
FED. TANK BATTERY
WELL PAD
MW-2
C.I=154
MW-6
C.I=94.2
POLY FLOW LINES
MW-7
C.I=874
MW-1
C.I=198
800
600
400
MW-5
C.I=591
MW-4
C.I=208
MW-9
C.I=121
PLAINS PL
PLAINS PL
MW-3
C.I=216
SOUTHERN UNION PL
200
EVA E. BLINEBRY #19
WELL PAD
MW-8
C.I=170

FIGURE NO. 10

LEGEND

- MONITOR WELL LOCATIONS
- C.I = CHLORIDE CONCENTRATION
- 200 CHLORIDE ELEVATION CONTOUR INTERVAL = 200 FT.

NOTES:

TETRA TECH
901 W. WALL STREET STE. 101
MIDLAND, TEXAS

GLENN SPRINGS HOLDINGS

NORTH
0 20 50ft

CHLORIDE CONCENTRATION MAP
SEPTEMBER 08, 2016

E.C. HILL FEDERAL #7 & B, D TB
LEA COUNTY, NEW MEXICO

Project: 212C-MD-01686
Date: 7/31/2019
REV

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FIGURE NO. 11

LEGEND

MONITOR WELL LOCATIONS

3178.65 CHLORIDE CONCENTRATION

NOTES:

TETRA TECH
901 W. WALL STREET STE. 101
MIDLAND, TEXAS

GLENN SPRINGS HOLDINGS

NORTH

0 20 50ft

CHLORIDE CONCENTRATION MAP
AUGUST 30, 2017

E.C. HILL FEDERAL #7 & B, D TB
LEA COUNTY, NEW MEXICO

Project: 212C-MD-01686
Date: 7/31/2019

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FIGURE NO. 12

LEGEND

MONITOR WELL LOCATIONS

3178.65 CHLORIDE CONCENTRATION

NOTES:

TETRA TECH
901 W. WALL STREET STE. 101
MIDLAND, TEXAS

GLENN SPRINGS HOLDINGS

NORTH

0 20 50ft

CHLORIDE CONCENTRATION MAP
FEBRUARY 22,2018

E.C. HILL FEDERAL #7 & B, D TB
LEA COUNTY, NEW MEXICO

Project: 212C-MD-01686
Date: 7/31/2019

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FIGURE NO. 13

LEGEND

MONITOR WELL LOCATIONS

3178.65 CHLORIDE CONCENTRATION

RESULTS IN mg/L

NOTES:

TETRA TECH
901 W. WALL STREET STE. 101
MIDLAND, TEXAS

GLENN SPRINGS HOLDINGS

NORTH

0 20 50ft

CHLORIDE CONCENTRATION MAP
SEPTEMBER 12, 2018

E.C. HILL FEDERAL #7 & B, D TB
LEA COUNTY, NEW MEXICO

Project: 212C-MD-01686	REV.
Date: 9/26/2019	
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Tables

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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-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

112MC06820
212C-MD-00235
212C-MD-00764

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-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

112MC06820
212C-MD-00235
212C-MD-00764

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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-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			--	80.77	--	3178.47
	09/19/13			--	80.79	--	3178.45
	12/26/13		86.62	--	80.85	--	3178.39
	03/26/14		83.87		80.81		3178.43
	06/17/14		83.87	--	80.79	--	3178.45
	09/26/14		83.98	--	80.87	--	3178.37
	12/15/14		83.98	--	80.90	--	3178.34
	03/25/15		83.93	--	80.84	--	3178.40
	06/17/15		83.88	--	80.79	--	3178.45
	09/09/15		83.88	--	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

112MC06820
212C-MD-00235
212C-MD-00764

Table 1
OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
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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

112MC06820
212C-MD-00235
212C-MD-00764

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

112MC06820
212C-MD-00235
212C-MD-00764

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-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			--	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

112MC06820
212C-MD-00235
212C-MD-00764

Released to Imaging: 9/20/2021 3:06:37 PM

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

112MC06820
212C-MD-00235
212C-MD-00764

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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-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

112MC06820
212C-MD-00235
212C-MD-00764

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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-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

(-) No data (TOC) Top of casing

112MC06820
212C-MD-00235
212C-MD-00764

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**
MW-1 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**
MW-1 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**
	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**

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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	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**
	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**
	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**

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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	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**
	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**

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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	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**
	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**
	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**

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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-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**
	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**

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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	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**
	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**

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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	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**
MW-7	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**
MW-7 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**
MW-7 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**
MW-7 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**
MW-7 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**
MW-7 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**
MW-7 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**
MW-7 DUP	06/13/11	<0.00014	<0.0002	<0.0003	<0.00023	<0.0003	**1,600**
MW-7	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**
MW-7	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**

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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	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**
	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**
MW-7 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**

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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-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**
	09/19/13	<0.005	<0.005	<0.005	<0.015	<0.015	**214**
	12/27/13	<0.005	<0.005	<0.005	<0.015	<0.015	**209**
	03/27/14	<0.005	<0.005	<0.005	<0.015	<0.015	**215**
	06/19/14	<0.005	<0.005	<0.005	<0.015	<0.015	**243**
	09/30/14	<0.005	<0.005	<0.005	<0.015	<0.015	**213**
	12/16/14	<0.005	<0.005	<0.005	<0.015	<0.015	**216**
	03/25/15	<0.005	<0.005	<0.005	<0.015	<0.015	**156**
	06/17/15	<0.005	<0.005	<0.005	<0.015	<0.015	**213**
	09/09/15	<0.005	<0.005	<0.005	<0.015	<0.015	**163**
	12/18/15	<0.005	<0.005	<0.005	<0.015	<0.015	**201**
	03/15/16	<0.005	<0.005	<0.005	<0.015	<0.015	**198**
	06/29/16	<0.005	<0.005	<0.005	<0.015	<0.015	**165**
	09/08/16	<0.005	<0.005	<0.005	<0.015	<0.015	**170**
	12/06/16	<0.005	<0.005	<0.005	<0.005	<0.005	**182**
Dup	12/06/16	<0.005	<0.005	<0.005	<0.005	<0.005	**177**
	03/02/17	<0.005	<0.005	<0.005	<0.005	<0.005	**166**
	08/30/17	<0.005	<0.005	<0.005	<0.005	<0.005	**182**
	02/22/18	<0.005	<0.005	<0.005	<0.005	<0.005	**179**
	09/12/18	<0.005	<0.005	<0.005	<0.005	<0.005	**180**

Released to Imaging: 9/20/2021 3:06:37 PM

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

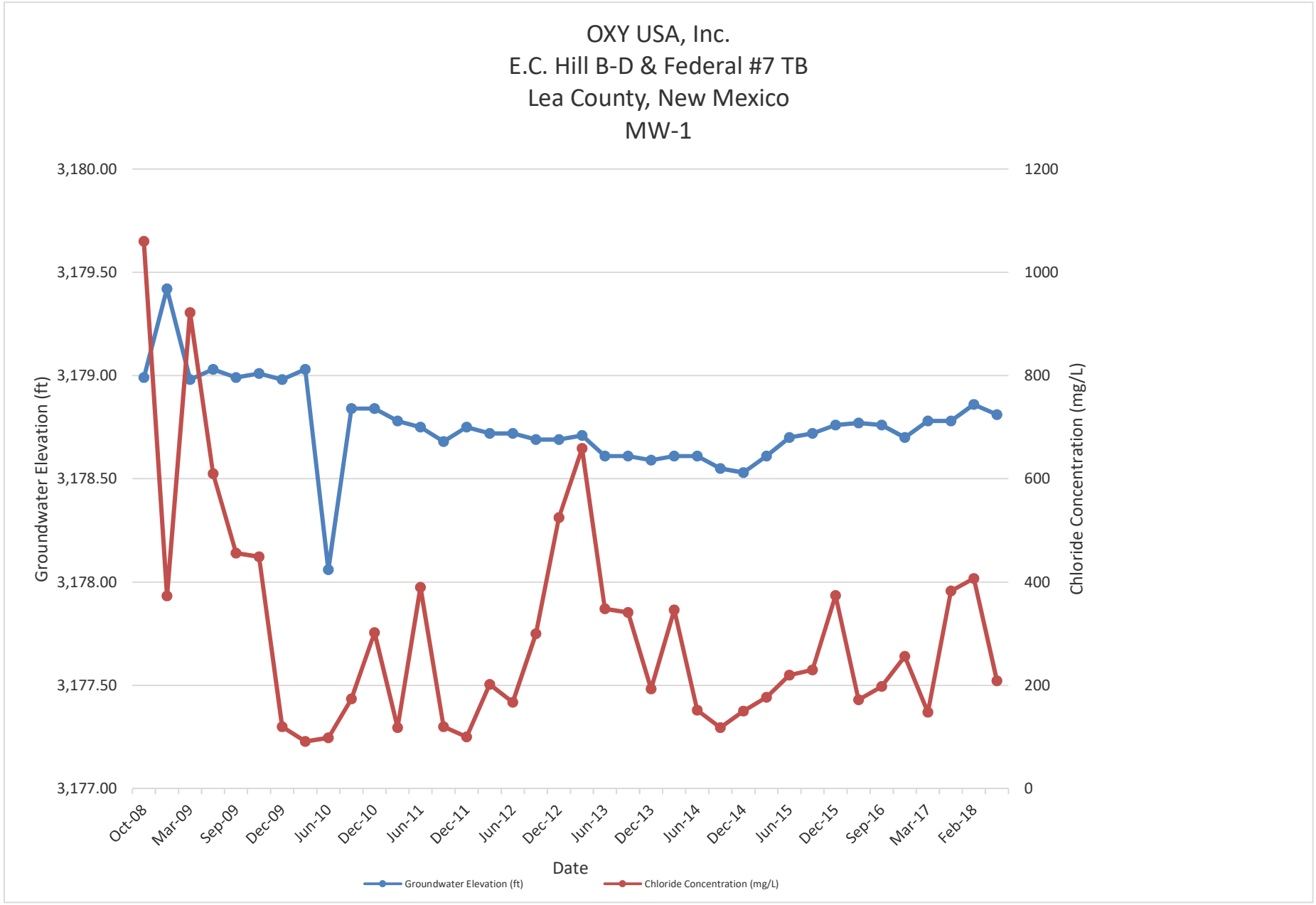
Sample ID	Sample Date	Benzene (mg/l)	Toluene (mg/l)	Ethyl-benzene (mg/l)	Xylene (mg/l)	Total BTEX (mg/l)	Chloride (mg/l)
New Mexico Water Quality Control Commission Human Health Standard Maximum Allowable Concentration		**0.005 mg/L**	**1.0 mg/L**	**0.7 mg/L**	**0.62 mg/L**		**250.0 mg/L***
MW-9	11/16/12	<0.005	<0.005	<0.005	<0.015	<0.015	**123**
	12/14/12	<0.005	<0.005	<0.005	<0.015	<0.015	**113**
	03/28/13	<0.005	<0.005	<0.005	<0.015	<0.015	**127**
	06/06/13	<0.005	<0.005	<0.005	<0.015	<0.015	**123**
	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**
Dup	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**

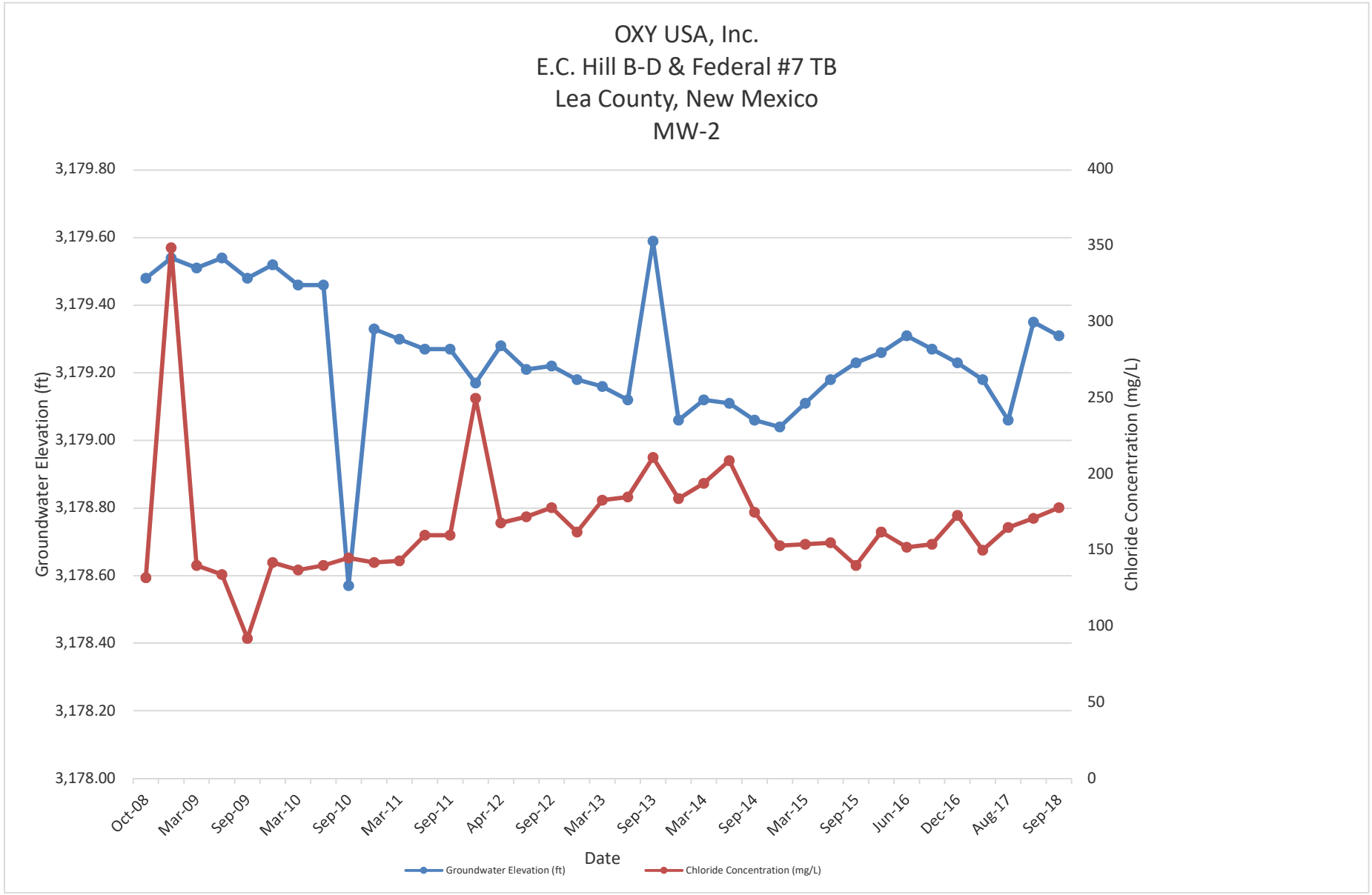
(-) Not Analyzed
NM - Not measured

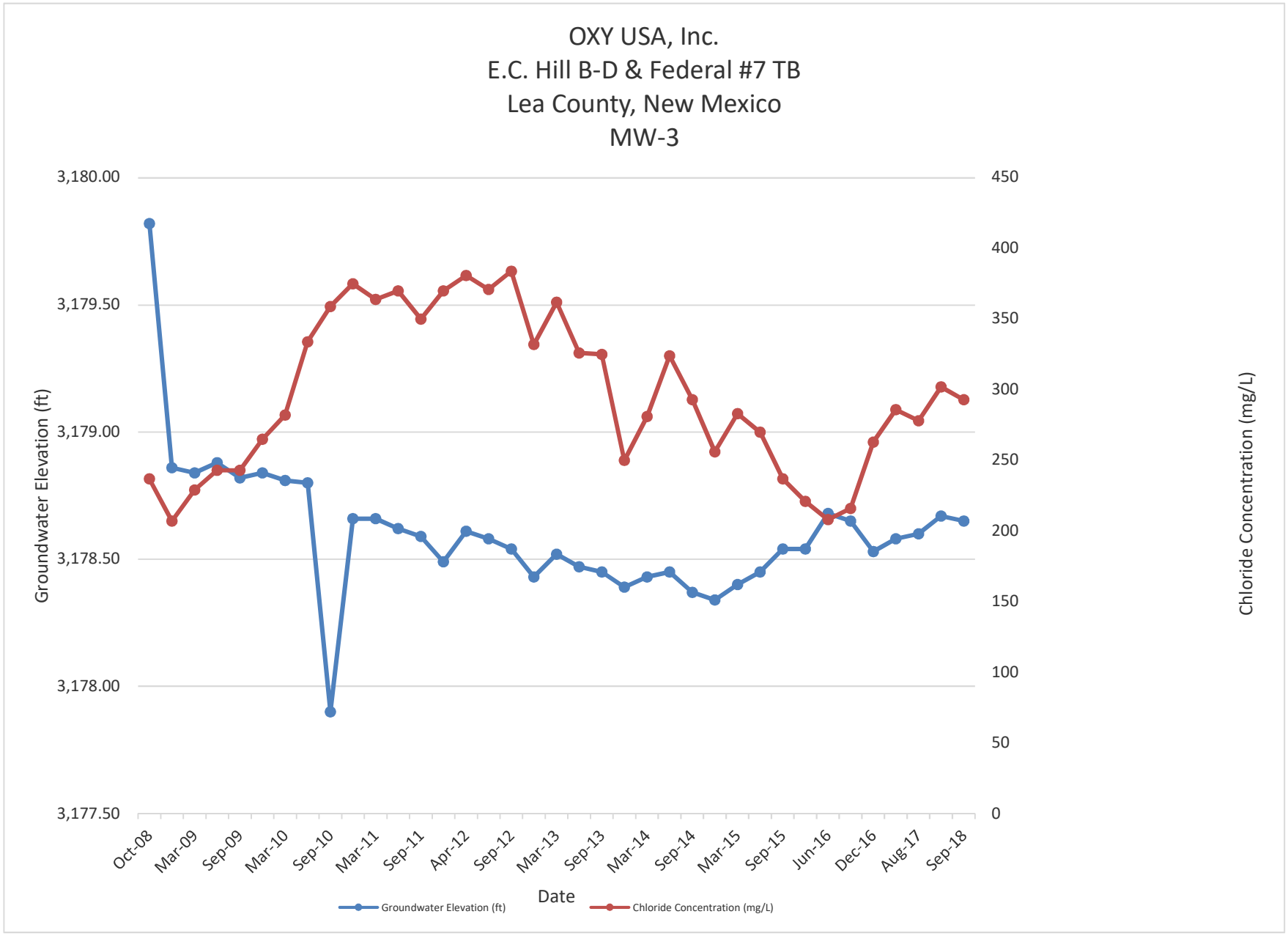
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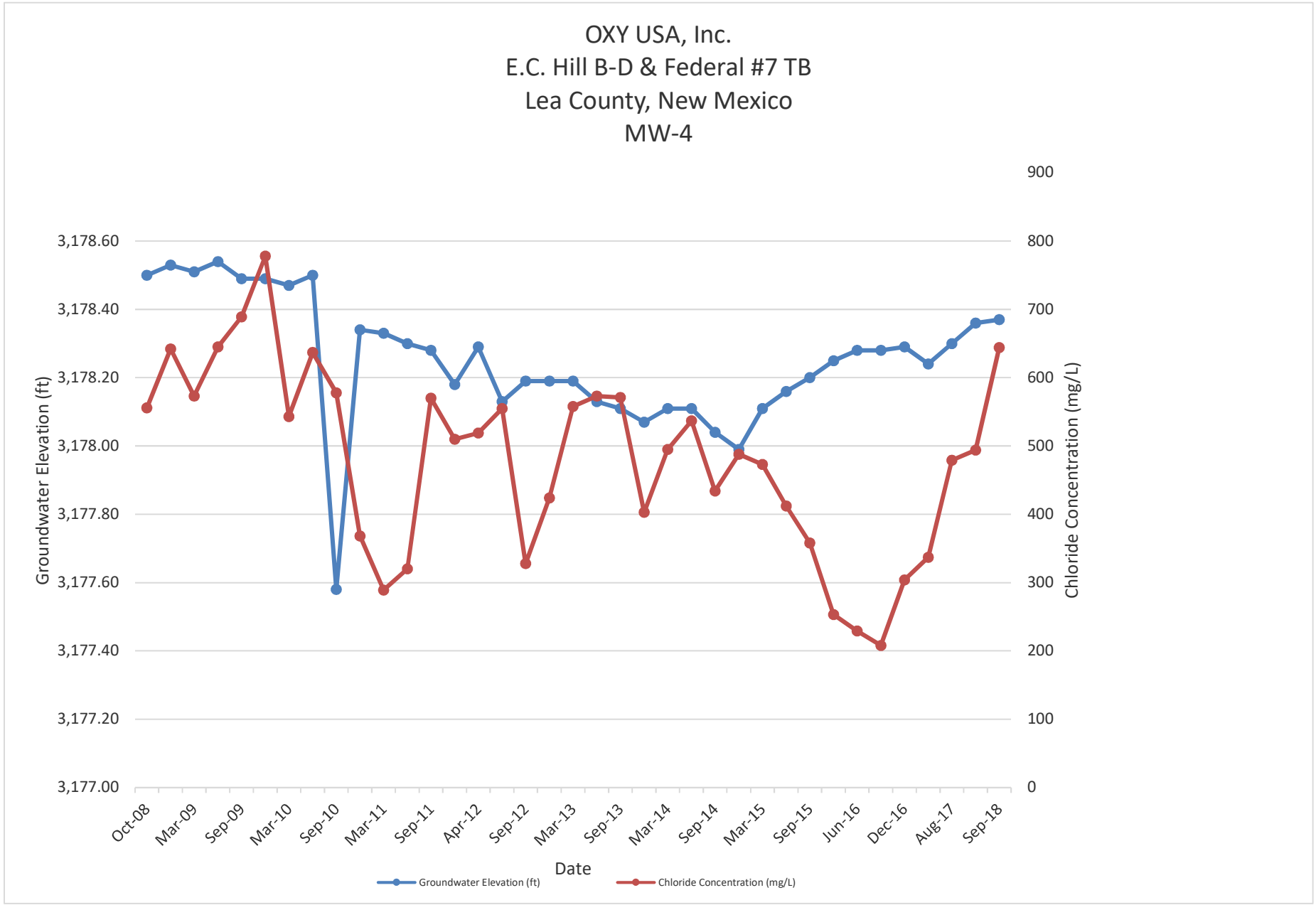
Appendix A

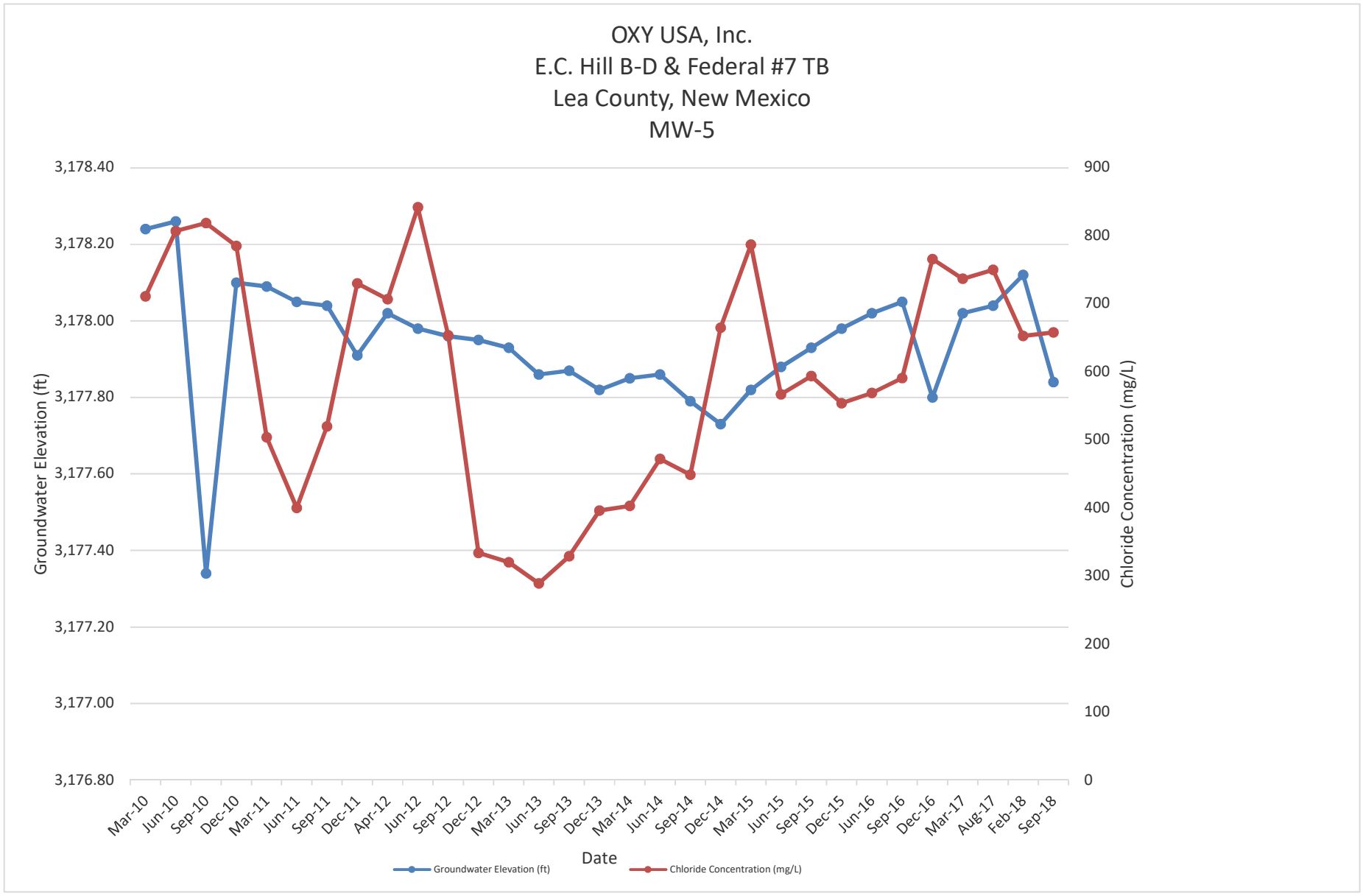
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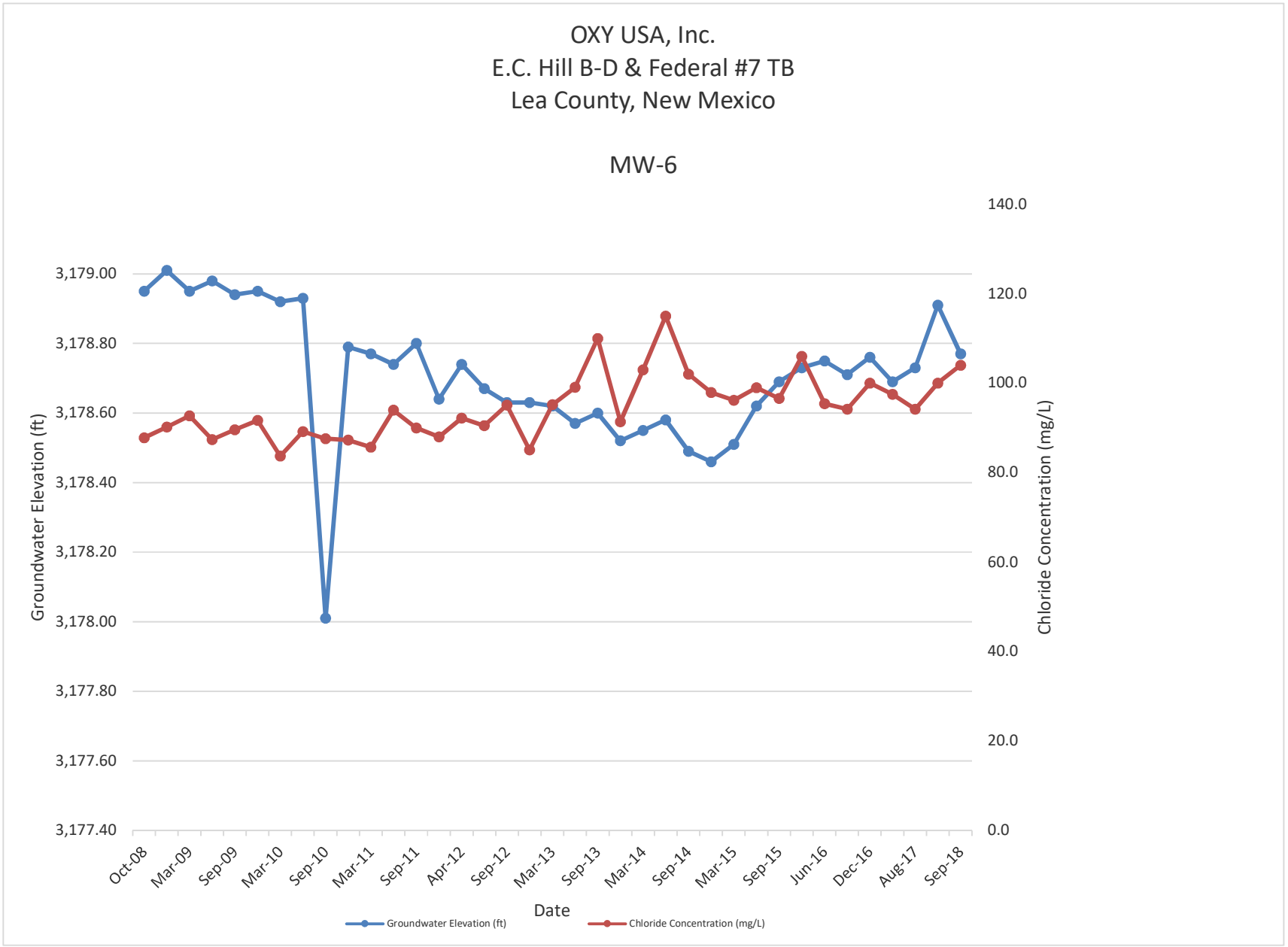

OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Lea County, New Mexico
MW-1
Groundwater Elevation (ft)
Chloride Concentration (mg/L)
3,180.00
3,179.50
3,179.00
3,178.50
3,178.00
3,177.50
3,177.00
1200
1000
800
600
400
200
0
Oct-08
Mar-09
Sep-09
Dec-09
Jun-10
Dec-10
Jun-11
Dec-11
Jun-12
Dec-12
Jun-13
Dec-13
Jun-14
Dec-14
Jun-15
Dec-15
Sep-16
Mar-17
Feb-18
Date
Groundwater Elevation (ft)
Chloride Concentration (mg/L)

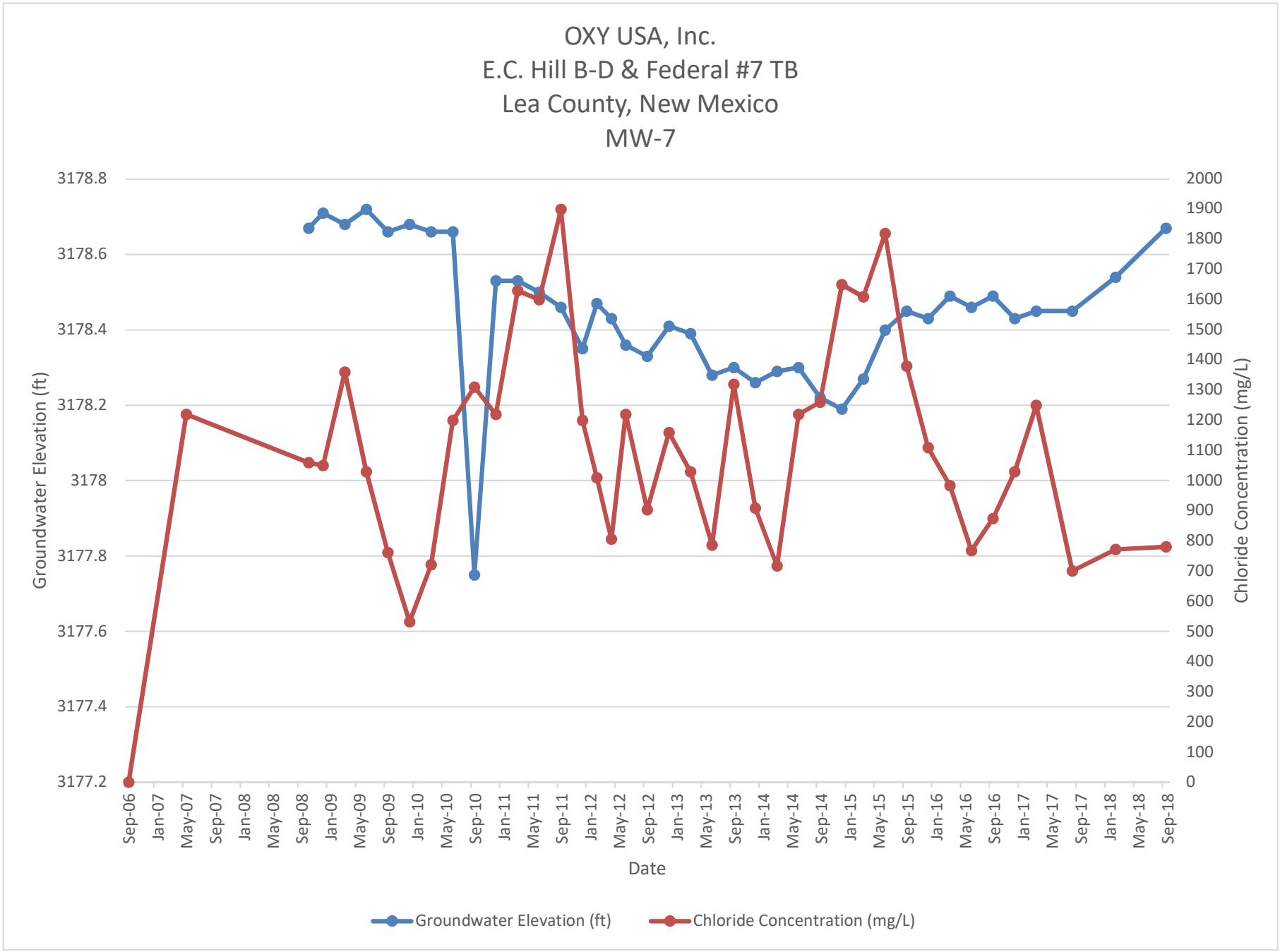

OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Lea County, New Mexico
MW-2
Groundwater Elevation (ft)
3,179.80
3,179.60
3,179.40
3,179.20
3,179.00
3,178.80
3,178.60
3,178.40
3,178.20
3,178.00
Chloride Concentration (mg/L)
400
350
300
250
200
150
100
50
0
Oct-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
Sep-11
Apr-12
Sep-12
Mar-13
Sep-13
Mar-14
Sep-14
Mar-15
Sep-15
Jun-16
Dec-16
Aug-17
Sep-18
Date
Groundwater Elevation (ft)
Chloride Concentration (mg/L)

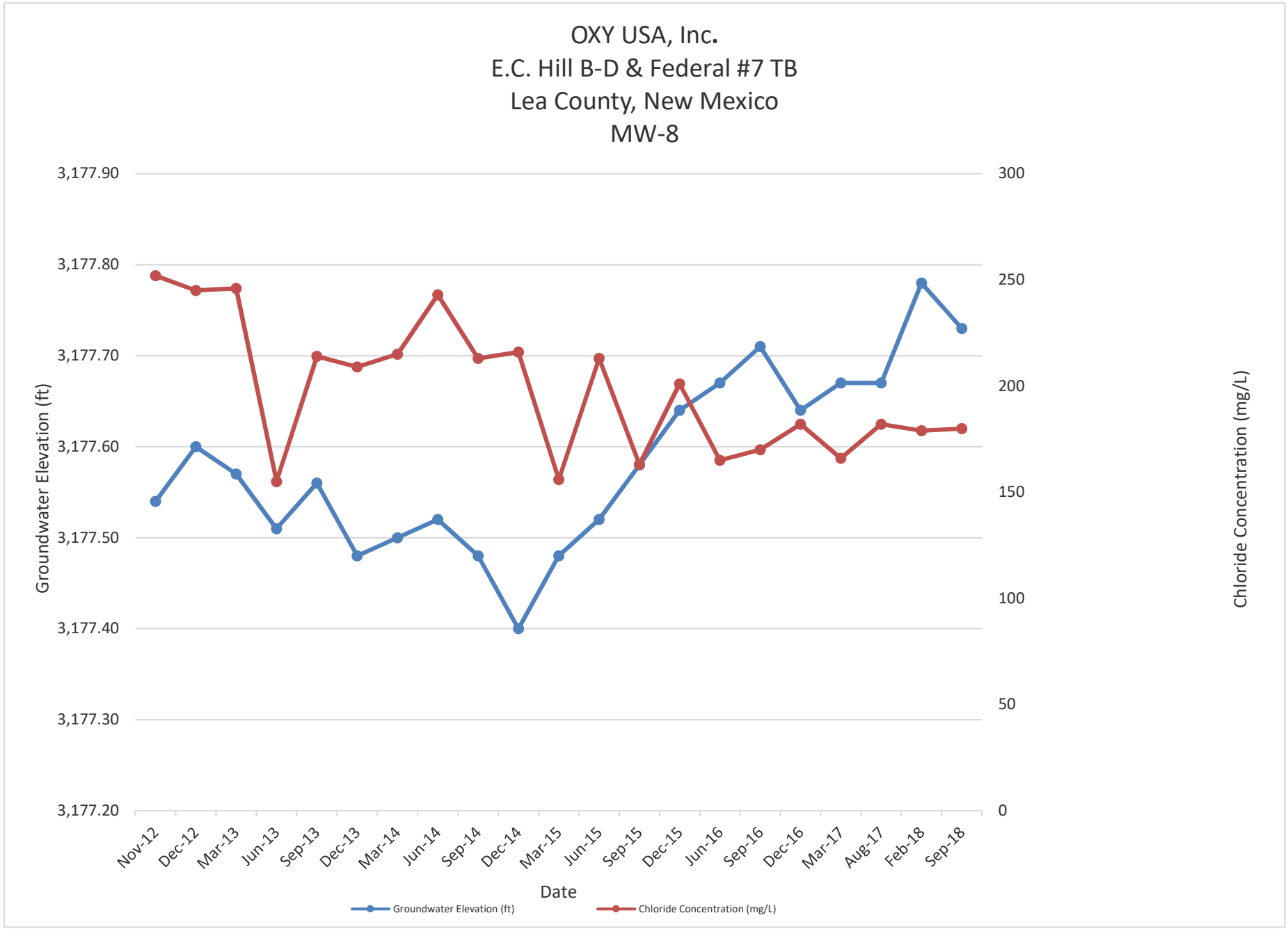

OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Lea County, New Mexico
MW-3
Groundwater Elevation (ft)
3,180.00
3,179.50
3,179.00
3,178.50
3,178.00
3,177.50
Chloride Concentration (mg/L)
450
400
350
300
250
200
150
100
50
0
Oct-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
Sep-11
Apr-12
Sep-12
Mar-13
Sep-13
Mar-14
Sep-14
Mar-15
Sep-15
Jun-16
Dec-16
Aug-17
Sep-18
Date
Groundwater Elevation (ft)
Chloride Concentration (mg/L)

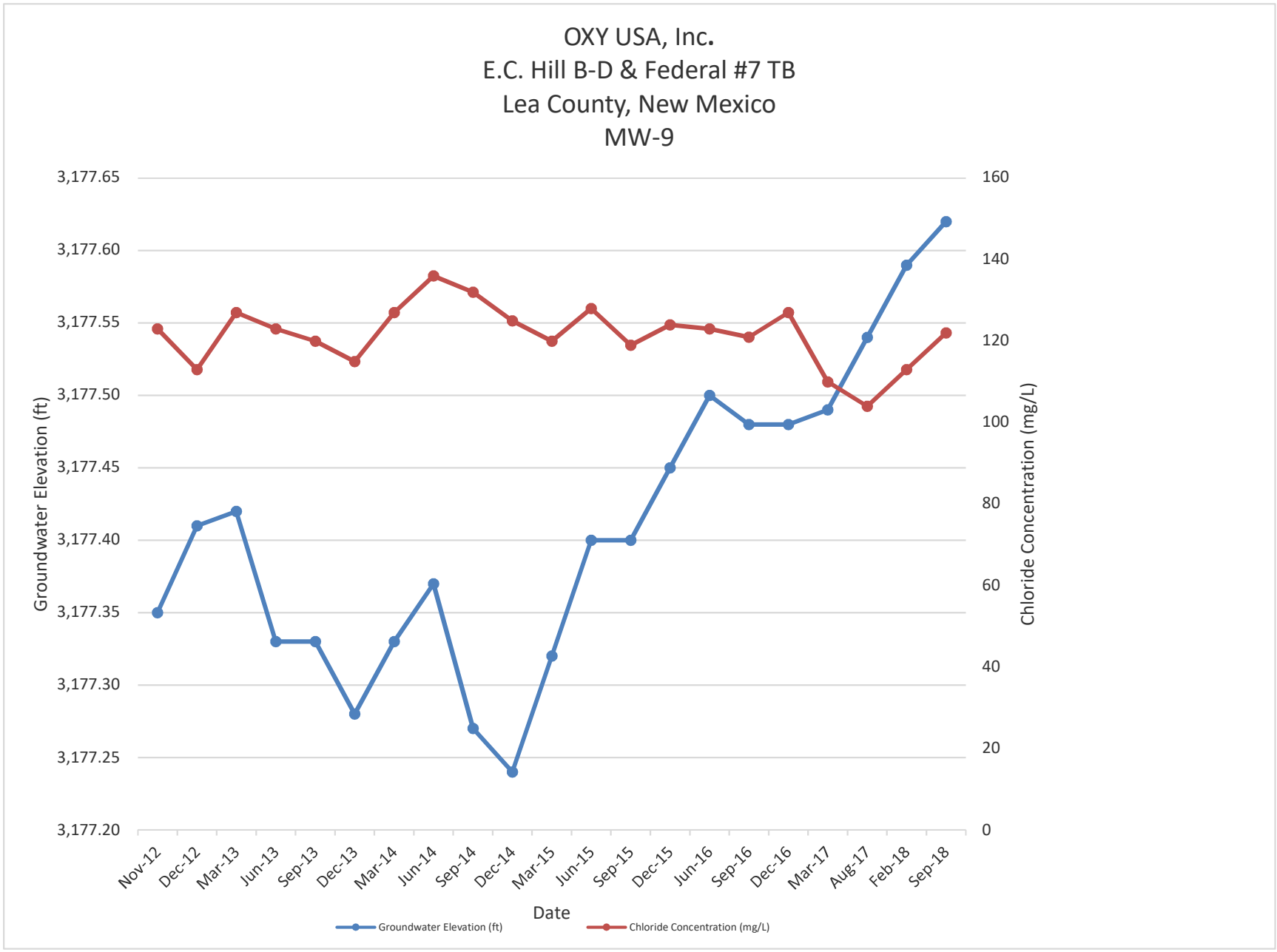

OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Lea County, New Mexico
MW-4
Groundwater Elevation (ft)
3,178.60
3,178.40
3,178.20
3,178.00
3,177.80
3,177.60
3,177.40
3,177.20
3,177.00
Chloride Concentration (mg/L)
900
800
700
600
500
400
300
200
100
0
Oct-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
Sep-11
Apr-12
Sep-12
Mar-13
Sep-13
Mar-14
Sep-14
Mar-15
Sep-15
Jun-16
Dec-16
Aug-17
Sep-18
Date
Groundwater Elevation (ft)
Chloride Concentration (mg/L)


OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Lea County, New Mexico
MW-5
Groundwater Elevation (ft)
3,178.40
3,178.20
3,178.00
3,177.80
3,177.60
3,177.40
3,177.20
3,177.00
3,176.80
Chloride Concentration (mg/L)
900
800
700
600
500
400
300
200
100
0
Mar-10
Jun-10
Sep-10
Dec-10
Mar-11
Jun-11
Sep-11
Dec-11
Apr-12
Jun-12
Sep-12
Dec-12
Mar-13
Jun-13
Sep-13
Dec-13
Mar-14
Jun-14
Sep-14
Dec-14
Mar-15
Jun-15
Sep-15
Dec-15
Jun-16
Sep-16
Dec-16
Mar-17
Aug-17
Feb-18
Sep-18
Date
Groundwater Elevation (ft)
Chloride Concentration (mg/L)


OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Lea County, New Mexico
MW-6
Groundwater Elevation (ft)
3,179.00
3,178.80
3,178.60
3,178.40
3,178.20
3,178.00
3,177.80
3,177.60
3,177.40
Chloride Concentration (mg/L)
140.0
120.0
100.0
80.0
60.0
40.0
20.0
0.0
Oct-08
Mar-09
Sep-09
Mar-10
Sep-10
Mar-11
Sep-11
Apr-12
Sep-12
Mar-13
Sep-13
Mar-14
Sep-14
Mar-15
Sep-15
Jun-16
Dec-16
Aug-17
Sep-18
Date
Groundwater Elevation (ft)
Chloride Concentration (mg/L)


OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Lea County, New Mexico
MW-7
Groundwater Elevation (ft)
3178.8
3178.6
3178.4
3178.2
3178
3177.8
3177.6
3177.4
3177.2
Chloride Concentration (mg/L)
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
Sep-06
Jan-07
May-07
Sep-07
Jan-08
May-08
Sep-08
Jan-09
May-09
Sep-09
Jan-10
May-10
Sep-10
Jan-11
May-11
Sep-11
Jan-12
May-12
Sep-12
Jan-13
May-13
Sep-13
Jan-14
May-14
Sep-14
Jan-15
May-15
Sep-15
Jan-16
May-16
Sep-16
Jan-17
May-17
Sep-17
Jan-18
May-18
Sep-18
Date
Groundwater Elevation (ft)
Chloride Concentration (mg/L)


OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Lea County, New Mexico
MW-8
Groundwater Elevation (ft)
3,177.90
3,177.80
3,177.70
3,177.60
3,177.50
3,177.40
3,177.30
3,177.20
Chloride Concentration (mg/L)
300
250
200
150
100
50
0
Nov-12
Dec-12
Mar-13
Jun-13
Sep-13
Dec-13
Mar-14
Jun-14
Sep-14
Dec-14
Mar-15
Jun-15
Sep-15
Dec-15
Jun-16
Sep-16
Dec-16
Mar-17
Aug-17
Feb-18
Sep-18
Date
Groundwater Elevation (ft)
Chloride Concentration (mg/L)


OXY USA, Inc.
E.C. Hill B-D & Federal #7 TB
Lea County, New Mexico
MW-9
Groundwater Elevation (ft)
3,177.65
3,177.60
3,177.55
3,177.50
3,177.45
3,177.40
3,177.35
3,177.30
3,177.25
3,177.20
Chloride Concentration (mg/L)
160
140
120
100
80
60
40
20
0
Nov-12
Dec-12
Mar-13
Jun-13
Sep-13
Dec-13
Mar-14
Jun-14
Sep-14
Dec-14
Mar-15
Jun-15
Sep-15
Dec-15
Jun-16
Sep-16
Dec-16
Mar-17
Aug-17
Feb-18
Sep-18
Date
Groundwater Elevation (ft)
Chloride Concentration (mg/L)

Appendix B

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

April 02, 2015

Angela Bown
Glenn Springs Holdings
C/O CRA
2055 Niagara Falls Blvd. Suite 3
Niagara Falls, NY 14304

Work Order: **HS15031020**

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

Dear Angela,

ALS Environmental received 10 sample(s) on Mar 27, 2015 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: Dayna.Fisher
Dane J. Wacasey

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS15031020

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS15031020-01	MW-1	Water		25-Mar-2015 09:55	27-Mar-2015 09:10	☐
HS15031020-02	MW-2	Water		25-Mar-2015 09:45	27-Mar-2015 09:10	☐
HS15031020-03	MW-3	Water		25-Mar-2015 10:45	27-Mar-2015 09:10	☐
HS15031020-04	MW-4	Water		25-Mar-2015 10:30	27-Mar-2015 09:10	☐
HS15031020-05	MW-5	Water		25-Mar-2015 12:00	27-Mar-2015 09:10	☐
HS15031020-06	MW-6	Water		25-Mar-2015 10:20	27-Mar-2015 09:10	☐
HS15031020-07	MW-7	Water		25-Mar-2015 12:20	27-Mar-2015 09:10	☐
HS15031020-08	MW-8	Water		25-Mar-2015 11:00	27-Mar-2015 09:10	☐
HS15031020-09	MW-9	Water		25-Mar-2015 11:20	27-Mar-2015 09:10	☐
HS15031020-10	Trip Blank 021715-99	Water		25-Mar-2015 00:00	27-Mar-2015 09:10	☐

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 07-Apr-15

Client: Glenn Springs Holdings **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS15031020

Work Order Comments

- Analyst Initials and Names:
  PC Presenta Cabascango
  JBA Johnnie B. Allen

GCMS Volatiles by Method SW8260

Batch ID: R251881,R251986,R252015,R252081

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

WetChemistry by Method E300

Batch ID: R251907,R251935

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-1
Collection Date: 25-Mar-2015 09:55

ANALYTICAL REPORT
WorkOrder:HS15031020
Lab ID:HS15031020-01
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	31-Mar-2015 19:38
Ethylbenzene		U	0.50	5.0	ug/L	1	31-Mar-2015 19:38
Toluene		U	0.50	5.0	ug/L	1	31-Mar-2015 19:38
Xylenes, Total		U	1.5	15	ug/L	1	31-Mar-2015 19:38
Surr: 1,2-Dichloroethane-d4	*90.8*			*70-125*	*%REC*	*1*	*31-Mar-2015 19:38*
Surr: 4-Bromofluorobenzene	*101*			*72-125*	*%REC*	*1*	*31-Mar-2015 19:38*
Surr: Dibromofluoromethane	*95.2*			*71-125*	*%REC*	*1*	*31-Mar-2015 19:38*
Surr: Toluene-d8	*95.6*			*75-125*	*%REC*	*1*	*31-Mar-2015 19:38*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**177**		**2.00**	**5.00**	**mg/L**	10	30-Mar-2015 21:46

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

ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS15031020
Sample ID: MW-2
Lab ID:HS15031020-02
Collection Date: 25-Mar-2015 09:45
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	31-Mar-2015 20:03
Ethylbenzene		U	0.50	5.0	ug/L	1	31-Mar-2015 20:03
Toluene		U	0.50	5.0	ug/L	1	31-Mar-2015 20:03
Xylenes, Total		U	1.5	15	ug/L	1	31-Mar-2015 20:03
Surr: 1,2-Dichloroethane-d4	*87.1*			*70-125*	*%REC*	*1*	*31-Mar-2015 20:03*
Surr: 4-Bromofluorobenzene	*97.0*			*72-125*	*%REC*	*1*	*31-Mar-2015 20:03*
Surr: Dibromofluoromethane	*93.4*			*71-125*	*%REC*	*1*	*31-Mar-2015 20:03*
Surr: Toluene-d8	*95.0*			*75-125*	*%REC*	*1*	*31-Mar-2015 20:03*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**154**		**2.00**	**5.00**	**mg/L**	10	30-Mar-2015 22:08

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

ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-3
Collection Date: 25-Mar-2015 10:45

ANALYTICAL REPORT
WorkOrder:HS15031020
Lab ID:HS15031020-03
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	31-Mar-2015 20:27
Ethylbenzene		U	0.50	5.0	ug/L	1	31-Mar-2015 20:27
Toluene		U	0.50	5.0	ug/L	1	31-Mar-2015 20:27
Xylenes, Total		U	1.5	15	ug/L	1	31-Mar-2015 20:27
Surr: 1,2-Dichloroethane-d4	*91.9*			*70-125*	*%REC*	*1*	*31-Mar-2015 20:27*
Surr: 4-Bromofluorobenzene	*102*			*72-125*	*%REC*	*1*	*31-Mar-2015 20:27*
Surr: Dibromofluoromethane	*95.5*			*71-125*	*%REC*	*1*	*31-Mar-2015 20:27*
Surr: Toluene-d8	*97.0*			*75-125*	*%REC*	*1*	*31-Mar-2015 20:27*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**283**		**2.00**	**5.00**	**mg/L**	10	30-Mar-2015 22:30

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

ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS15031020
Sample ID: MW-4
Lab ID:HS15031020-04
Collection Date: 25-Mar-2015 10:30
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	31-Mar-2015 20:52
Ethylbenzene		U	0.50	5.0	ug/L	1	31-Mar-2015 20:52
Toluene		U	0.50	5.0	ug/L	1	31-Mar-2015 20:52
Xylenes, Total		U	1.5	15	ug/L	1	31-Mar-2015 20:52
Surr: 1,2-Dichloroethane-d4	*87.4*			*70-125*	*%REC*	*1*	*31-Mar-2015 20:52*
Surr: 4-Bromofluorobenzene	*97.8*			*72-125*	*%REC*	*1*	*31-Mar-2015 20:52*
Surr: Dibromofluoromethane	*96.3*			*71-125*	*%REC*	*1*	*31-Mar-2015 20:52*
Surr: Toluene-d8	*93.3*			*75-125*	*%REC*	*1*	*31-Mar-2015 20:52*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**473**		**2.00**	**5.00**	**mg/L**	10	30-Mar-2015 22:51

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

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ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-5
Collection Date: 25-Mar-2015 12:00

ANALYTICAL REPORT
WorkOrder:HS15031020
Lab ID:HS15031020-05
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	31-Mar-2015 21:17
Ethylbenzene		U	0.50	5.0	ug/L	1	31-Mar-2015 21:17
Toluene		U	0.50	5.0	ug/L	1	31-Mar-2015 21:17
Xylenes, Total		U	1.5	15	ug/L	1	31-Mar-2015 21:17
Surr: 1,2-Dichloroethane-d4	*88.9*			*70-125*	*%REC*	*1*	*31-Mar-2015 21:17*
Surr: 4-Bromofluorobenzene	*104*			*72-125*	*%REC*	*1*	*31-Mar-2015 21:17*
Surr: Dibromofluoromethane	*92.8*			*71-125*	*%REC*	*1*	*31-Mar-2015 21:17*
Surr: Toluene-d8	*102*			*75-125*	*%REC*	*1*	*31-Mar-2015 21:17*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**787**		**2.00**	**5.00**	**mg/L**	10	30-Mar-2015 23:13

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

ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS15031020
Sample ID: MW-6
Lab ID:HS15031020-06
Collection Date: 25-Mar-2015 10:20
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	01-Apr-2015 16:01
Ethylbenzene		U	0.50	5.0	ug/L	1	01-Apr-2015 16:01
Toluene		U	0.50	5.0	ug/L	1	01-Apr-2015 16:01
Xylenes, Total		U	1.5	15	ug/L	1	01-Apr-2015 16:01
Surr: 1,2-Dichloroethane-d4	*101*			*70-125*	*%REC*	*1*	*01-Apr-2015 16:01*
Surr: 4-Bromofluorobenzene	*96.7*			*72-125*	*%REC*	*1*	*01-Apr-2015 16:01*
Surr: Dibromofluoromethane	*99.8*			*71-125*	*%REC*	*1*	*01-Apr-2015 16:01*
Surr: Toluene-d8	*100*			*75-125*	*%REC*	*1*	*01-Apr-2015 16:01*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**96.2**		**1.00**	**2.50**	**mg/L**	5	30-Mar-2015 23:35

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

ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7
Collection Date: 25-Mar-2015 12:20

ANALYTICAL REPORT
WorkOrder:HS15031020
Lab ID:HS15031020-07
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	31-Mar-2015 15:20
Ethylbenzene		U	0.50	5.0	ug/L	1	31-Mar-2015 15:20
Toluene		U	0.50	5.0	ug/L	1	31-Mar-2015 15:20
Xylenes, Total		U	1.5	15	ug/L	1	31-Mar-2015 15:20
Surr: 1,2-Dichloroethane-d4	*103*			*70-125*	*%REC*	*1*	*31-Mar-2015 15:20*
Surr: 4-Bromofluorobenzene	*94.9*			*72-125*	*%REC*	*1*	*31-Mar-2015 15:20*
Surr: Dibromofluoromethane	*103*			*71-125*	*%REC*	*1*	*31-Mar-2015 15:20*
Surr: Toluene-d8	*97.9*			*75-125*	*%REC*	*1*	*31-Mar-2015 15:20*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**1,610**		**20.0**	**50.0**	**mg/L**	100	30-Mar-2015 23:56

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

ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-8
Collection Date: 25-Mar-2015 11:00

ANALYTICAL REPORT
WorkOrder:HS15031020
Lab ID:HS15031020-08
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	31-Mar-2015 16:08
Ethylbenzene		U	0.50	5.0	ug/L	1	31-Mar-2015 16:08
Toluene		U	0.50	5.0	ug/L	1	31-Mar-2015 16:08
Xylenes, Total		U	1.5	15	ug/L	1	31-Mar-2015 16:08
Surr: 1,2-Dichloroethane-d4	*105*			*70-125*	*%REC*	*1*	*31-Mar-2015 16:08*
Surr: 4-Bromofluorobenzene	*98.6*			*72-125*	*%REC*	*1*	*31-Mar-2015 16:08*
Surr: Dibromofluoromethane	*104*			*71-125*	*%REC*	*1*	*31-Mar-2015 16:08*
Surr: Toluene-d8	*104*			*75-125*	*%REC*	*1*	*31-Mar-2015 16:08*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**156**		**2.00**	**5.00**	**mg/L**	10	31-Mar-2015 00:18

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

ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-9
Collection Date: 25-Mar-2015 11:20

ANALYTICAL REPORT
WorkOrder:HS15031020
Lab ID:HS15031020-09
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	31-Mar-2015 16:32
Ethylbenzene		U	0.50	5.0	ug/L	1	31-Mar-2015 16:32
Toluene		U	0.50	5.0	ug/L	1	31-Mar-2015 16:32
Xylenes, Total		U	1.5	15	ug/L	1	31-Mar-2015 16:32
Surr: 1,2-Dichloroethane-d4	*106*			*70-125*	*%REC*	*1*	*31-Mar-2015 16:32*
Surr: 4-Bromofluorobenzene	*84.9*			*72-125*	*%REC*	*1*	*31-Mar-2015 16:32*
Surr: Dibromofluoromethane	*102*			*71-125*	*%REC*	*1*	*31-Mar-2015 16:32*
Surr: Toluene-d8	*98.4*			*75-125*	*%REC*	*1*	*31-Mar-2015 16:32*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**120**		**2.00**	**5.00**	**mg/L**	10	31-Mar-2015 03:33

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

ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: Trip Blank 021715-99
Collection Date: 25-Mar-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15031020
Lab ID:HS15031020-10
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	30-Mar-2015 20:10
Ethylbenzene		U	0.50	5.0	ug/L	1	30-Mar-2015 20:10
Toluene		U	0.50	5.0	ug/L	1	30-Mar-2015 20:10
Xylenes, Total		U	1.5	15	ug/L	1	30-Mar-2015 20:10
Surr: 1,2-Dichloroethane-d4	*106*			*70-125*	*%REC*	*1*	*30-Mar-2015 20:10*
Surr: 4-Bromofluorobenzene	*93.5*			*72-125*	*%REC*	*1*	*30-Mar-2015 20:10*
Surr: Dibromofluoromethane	*102*			*71-125*	*%REC*	*1*	*30-Mar-2015 20:10*
Surr: Toluene-d8	*95.4*			*75-125*	*%REC*	*1*	*30-Mar-2015 20:10*

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

ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15031020

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R251881	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS15031020-10	Trip Blank 021715-99	25 Mar 2015 00:00			30 Mar 2015 20:10	1
Batch ID R251907	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS15031020-01	MW-1	25 Mar 2015 09:55			30 Mar 2015 21:46	10
HS15031020-02	MW-2	25 Mar 2015 09:45			30 Mar 2015 22:08	10
HS15031020-03	MW-3	25 Mar 2015 10:45			30 Mar 2015 22:30	10
HS15031020-04	MW-4	25 Mar 2015 10:30			30 Mar 2015 22:51	10
HS15031020-05	MW-5	25 Mar 2015 12:00			30 Mar 2015 23:13	10
HS15031020-06	MW-6	25 Mar 2015 10:20			30 Mar 2015 23:35	5
HS15031020-07	MW-7	25 Mar 2015 12:20			30 Mar 2015 23:56	100
HS15031020-08	MW-8	25 Mar 2015 11:00			31 Mar 2015 00:18	10
Batch ID R251935	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS15031020-09	MW-9	25 Mar 2015 11:20			31 Mar 2015 03:33	10
Batch ID R251986	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS15031020-01	MW-1	25 Mar 2015 09:55			31 Mar 2015 19:38	1
HS15031020-02	MW-2	25 Mar 2015 09:45			31 Mar 2015 20:03	1
HS15031020-03	MW-3	25 Mar 2015 10:45			31 Mar 2015 20:27	1
HS15031020-04	MW-4	25 Mar 2015 10:30			31 Mar 2015 20:52	1
HS15031020-05	MW-5	25 Mar 2015 12:00			31 Mar 2015 21:17	1
Batch ID R252015	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS15031020-07	MW-7	25 Mar 2015 12:20			31 Mar 2015 15:20	1
HS15031020-08	MW-8	25 Mar 2015 11:00			31 Mar 2015 16:08	1
HS15031020-09	MW-9	25 Mar 2015 11:20			31 Mar 2015 16:32	1
Batch ID R252081	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS15031020-06	MW-6	25 Mar 2015 10:20			01 Apr 2015 16:01	1

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ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15031020

QC BATCH REPORT

Batch ID: R251881 **Instrument: VOA6** **Method: SW8260**

MBLK Sample ID: **VBLKW-150330** Units: **ug/L** Analysis Date: **30-Mar-2015 11:19**
Client ID: Run ID: **VOA6_251881** SeqNo: **3227659** 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	15								
Surr: 1,2-Dichloroethane-d4	*51.07*	*5.0*	*50*	*0*	*102*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*47.69*	*5.0*	*50*	*0*	*95.4*	*72 - 125*				
Surr: Dibromofluoromethane	*48.38*	*5.0*	*50*	*0*	*96.8*	*71 - 125*				
Surr: Toluene-d8	*49.59*	*5.0*	*50*	*0*	*99.2*	*75 - 125*				

LCS Sample ID: **VLCSW-150330** Units: **ug/L** Analysis Date: **30-Mar-2015 10:07**
Client ID: Run ID: **VOA6_251881** SeqNo: **3227658** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	49.36	5.0	50	0	98.7	73 - 121				
Ethylbenzene	47.84	5.0	50	0	95.7	80 - 120				
Toluene	47.85	5.0	50	0	95.7	80 - 120				
Xylenes, Total	141.8	15	150	0	94.6	80 - 120				
Surr: 1,2-Dichloroethane-d4	*51.61*	*5.0*	*50*	*0*	*103*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*52.43*	*5.0*	*50*	*0*	*105*	*72 - 125*				
Surr: Dibromofluoromethane	*50.89*	*5.0*	*50*	*0*	*102*	*71 - 125*				
Surr: Toluene-d8	*49.1*	*5.0*	*50*	*0*	*98.2*	*75 - 125*				

MS Sample ID: **HS15031017-02MS** Units: **ug/L** Analysis Date: **30-Mar-2015 14:56**
Client ID: Run ID: **VOA6_251881** SeqNo: **3227668** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.17	5.0	50	0	96.3	73 - 121				
Ethylbenzene	46.34	5.0	50	0	92.7	80 - 120				
Toluene	46.94	5.0	50	0	93.9	80 - 120				
Xylenes, Total	143.6	15	150	0	95.7	80 - 120				
Surr: 1,2-Dichloroethane-d4	*52.41*	*5.0*	*50*	*0*	*105*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*52.76*	*5.0*	*50*	*0*	*106*	*72 - 125*				
Surr: Dibromofluoromethane	*51.17*	*5.0*	*50*	*0*	*102*	*71 - 125*				
Surr: Toluene-d8	*48.28*	*5.0*	*50*	*0*	*96.6*	*75 - 125*				

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

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ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15031020

QC BATCH REPORT

Batch ID: R251881 **Instrument: VOA6** **Method: SW8260**

MSD Sample ID: **HS15031017-02MSD** Units: **ug/L** Analysis Date: **30-Mar-2015 15:21**
Client ID: Run ID: **VOA6_251881** SeqNo: **3227669** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	46.37	5.0	50	0	92.7	73 - 121	48.17	3.81	20	
Ethylbenzene	46.25	5.0	50	0	92.5	80 - 120	46.34	0.183	20	
Toluene	46.25	5.0	50	0	92.5	80 - 120	46.94	1.48	20	
Xylenes, Total	142.9	15	150	0	95.3	78 - 121	143.6	0.49	20	
Surr: 1,2-Dichloroethane-d4	*51.44*	*5.0*	*50*	*0*	*103*	*70 - 125*	*52.41*	*1.86*	*20*	
Surr: 4-Bromofluorobenzene	*52.18*	*5.0*	*50*	*0*	*104*	*72 - 125*	*52.76*	*1.1*	*20*	
Surr: Dibromofluoromethane	*50.17*	*5.0*	*50*	*0*	*100*	*71 - 125*	*51.17*	*1.96*	*20*	
Surr: Toluene-d8	*48.79*	*5.0*	*50*	*0*	*97.6*	*75 - 125*	*48.28*	*1.05*	*20*	

The following samples were anayzed in this batch: HS15031020-10

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

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ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15031020

QC BATCH REPORT

Batch ID: R251986 **Instrument: VOA1** **Method: SW8260**

MBLK Sample ID: **VBLKW-150331** Units: **ug/L** Analysis Date: **31-Mar-2015 11:23**
Client ID: Run ID: **VOA1_251986** SeqNo: **3229791** 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	15								
Surr: 1,2-Dichloroethane-d4	*45.82*	*5.0*	*50*	*0*	*91.6*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*49.21*	*5.0*	*50*	*0*	*98.4*	*72 - 125*				
Surr: Dibromofluoromethane	*46.03*	*5.0*	*50*	*0*	*92.1*	*71 - 125*				
Surr: Toluene-d8	*48.23*	*5.0*	*50*	*0*	*96.5*	*75 - 125*				

LCS Sample ID: **VLCSW-150331** Units: **ug/L** Analysis Date: **31-Mar-2015 10:34**
Client ID: Run ID: **VOA1_251986** SeqNo: **3229790** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	44.61	5.0	50	0	89.2	73 - 121				
Ethylbenzene	45.28	5.0	50	0	90.6	80 - 120				
Toluene	41.4	5.0	50	0	82.8	80 - 120				
Xylenes, Total	126.9	15	150	0	84.6	80 - 120				
Surr: 1,2-Dichloroethane-d4	*48.81*	*5.0*	*50*	*0*	*97.6*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*49.55*	*5.0*	*50*	*0*	*99.1*	*72 - 125*				
Surr: Dibromofluoromethane	*47.65*	*5.0*	*50*	*0*	*95.3*	*71 - 125*				
Surr: Toluene-d8	*48.73*	*5.0*	*50*	*0*	*97.5*	*75 - 125*				

MS Sample ID: **HS15031017-03MS** Units: **ug/L** Analysis Date: **31-Mar-2015 13:01**
Client ID: Run ID: **VOA1_251986** SeqNo: **3229795** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	44.6	5.0	50	0	89.2	73 - 121				
Ethylbenzene	44.31	5.0	50	0	88.6	80 - 120				
Toluene	40.19	5.0	50	0	80.4	80 - 120				
Xylenes, Total	132.3	15	150	0	88.2	80 - 120				
Surr: 1,2-Dichloroethane-d4	*49.49*	*5.0*	*50*	*0*	*99.0*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*52.68*	*5.0*	*50*	*0*	*105*	*72 - 125*				
Surr: Dibromofluoromethane	*49.12*	*5.0*	*50*	*0*	*98.2*	*71 - 125*				
Surr: Toluene-d8	*50.04*	*5.0*	*50*	*0*	*100*	*75 - 125*				

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

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ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15031020

QC BATCH REPORT

Batch ID: R251986 **Instrument: VOA1** **Method: SW8260**

MSD Sample ID: **HS15031017-03MSD** Units: **ug/L** Analysis Date: **31-Mar-2015 13:26**
Client ID: Run ID: **VOA1_251986** SeqNo: **3229796** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	41.33	5.0	50	0	82.7	73 - 121	44.6	7.61	20	
Ethylbenzene	44.58	5.0	50	0	89.2	80 - 120	44.31	0.604	20	
Toluene	42.43	5.0	50	0	84.9	80 - 120	40.19	5.41	20	
Xylenes, Total	130.2	15	150	0	86.8	78 - 121	132.3	1.6	20	
Surr: 1,2-Dichloroethane-d4	*49.21*	*5.0*	*50*	*0*	*98.4*	*70 - 125*	*49.49*	*0.564*	*20*	
Surr: 4-Bromofluorobenzene	*50.66*	*5.0*	*50*	*0*	*101*	*72 - 125*	*52.68*	*3.91*	*20*	
Surr: Dibromofluoromethane	*48.32*	*5.0*	*50*	*0*	*96.6*	*71 - 125*	*49.12*	*1.64*	*20*	
Surr: Toluene-d8	*49.29*	*5.0*	*50*	*0*	*98.6*	*75 - 125*	*50.04*	*1.51*	*20*	

The following samples were anayzed in this batch: HS15031020-01 HS15031020-02 HS15031020-03 HS15031020-04 HS15031020-05

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

ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15031020

QC BATCH REPORT

Batch ID: R252015 **Instrument: VOA6** **Method: SW8260**

MBLK Sample ID: **VBLKW-150331** Units: **ug/L** Analysis Date: **31-Mar-2015 11:43**
Client ID: Run ID: **VOA6_252015** SeqNo: **3230705** 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	15								
Surr: 1,2-Dichloroethane-d4	*51.83*	*5.0*	*50*	*0*	*104*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*47.72*	*5.0*	*50*	*0*	*95.4*	*72 - 125*				
Surr: Dibromofluoromethane	*50.83*	*5.0*	*50*	*0*	*102*	*71 - 125*				
Surr: Toluene-d8	*49.55*	*5.0*	*50*	*0*	*99.1*	*75 - 125*				

LCS Sample ID: **VLCSW-150331** Units: **ug/L** Analysis Date: **31-Mar-2015 10:30**
Client ID: Run ID: **VOA6_252015** SeqNo: **3230704** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.6	5.0	50	0	101	73 - 121				
Ethylbenzene	49.7	5.0	50	0	99.4	80 - 120				
Toluene	49.36	5.0	50	0	98.7	80 - 120				
Xylenes, Total	147.1	15	150	0	98.0	80 - 120				
Surr: 1,2-Dichloroethane-d4	*51.9*	*5.0*	*50*	*0*	*104*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*52.21*	*5.0*	*50*	*0*	*104*	*72 - 125*				
Surr: Dibromofluoromethane	*51.38*	*5.0*	*50*	*0*	*103*	*71 - 125*				
Surr: Toluene-d8	*49.45*	*5.0*	*50*	*0*	*98.9*	*75 - 125*				

MS Sample ID: **HS15031025-01MS** Units: **ug/L** Analysis Date: **31-Mar-2015 12:55**
Client ID: Run ID: **VOA6_252015** SeqNo: **3230708** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	52.98	5.0	50	0	106	73 - 121				
Ethylbenzene	49.92	5.0	50	0	99.8	80 - 120				
Toluene	54.25	5.0	50	0	109	80 - 120				
Xylenes, Total	158.1	15	150	0	105	80 - 120				
Surr: 1,2-Dichloroethane-d4	*52.03*	*5.0*	*50*	*0*	*104*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*52.26*	*5.0*	*50*	*0*	*105*	*72 - 125*				
Surr: Dibromofluoromethane	*50.65*	*5.0*	*50*	*0*	*101*	*71 - 125*				
Surr: Toluene-d8	*48.24*	*5.0*	*50*	*0*	*96.5*	*75 - 125*				

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

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ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15031020

QC BATCH REPORT

Batch ID: R252015 **Instrument: VOA6** **Method: SW8260**

MSD Sample ID: **HS15031025-01MSD** Units: **ug/L** Analysis Date: **31-Mar-2015 13:19**
Client ID: Run ID: **VOA6_252015** SeqNo: **3230709** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	48.04	5.0	50	0	96.1	73 - 121	52.98	9.77	20	
Ethylbenzene	46.65	5.0	50	0	93.3	80 - 120	49.92	6.77	20	
Toluene	48.57	5.0	50	0	97.1	80 - 120	54.25	11	20	
Xylenes, Total	146.1	15	150	0	97.4	78 - 121	158.1	7.93	20	
Surr: 1,2-Dichloroethane-d4	*53.06*	*5.0*	*50*	*0*	*106*	*70 - 125*	*52.03*	*1.97*	*20*	
Surr: 4-Bromofluorobenzene	*52.48*	*5.0*	*50*	*0*	*105*	*72 - 125*	*52.26*	*0.413*	*20*	
Surr: Dibromofluoromethane	*51.6*	*5.0*	*50*	*0*	*103*	*71 - 125*	*50.65*	*1.85*	*20*	
Surr: Toluene-d8	*49.25*	*5.0*	*50*	*0*	*98.5*	*75 - 125*	*48.24*	*2.08*	*20*	

The following samples were anayzed in this batch: HS15031020-07 HS15031020-08 HS15031020-09

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

ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15031020

QC BATCH REPORT

Batch ID: R252081 **Instrument: VOA6** **Method: SW8260**

MBLK Sample ID: **VBLKW-150401** Units: **ug/L** Analysis Date: **01-Apr-2015 11:36**
Client ID: Run ID: **VOA6_252081** SeqNo: **3231963** 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	15								
Surr: 1,2-Dichloroethane-d4	*53.02*	*5.0*	*50*	*0*	*106*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*48.06*	*5.0*	*50*	*0*	*96.1*	*72 - 125*				
Surr: Dibromofluoromethane	*50.49*	*5.0*	*50*	*0*	*101*	*71 - 125*				
Surr: Toluene-d8	*49.08*	*5.0*	*50*	*0*	*98.2*	*75 - 125*				

LCS Sample ID: **VLCSW-150401** Units: **ug/L** Analysis Date: **01-Apr-2015 10:24**
Client ID: Run ID: **VOA6_252081** SeqNo: **3231962** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.37	5.0	50	0	101	73 - 121				
Ethylbenzene	48.68	5.0	50	0	97.4	80 - 120				
Toluene	48.05	5.0	50	0	96.1	80 - 120				
Xylenes, Total	144.8	15	150	0	96.5	80 - 120				
Surr: 1,2-Dichloroethane-d4	*52.89*	*5.0*	*50*	*0*	*106*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*52.09*	*5.0*	*50*	*0*	*104*	*72 - 125*				
Surr: Dibromofluoromethane	*50.59*	*5.0*	*50*	*0*	*101*	*71 - 125*				
Surr: Toluene-d8	*48.41*	*5.0*	*50*	*0*	*96.8*	*75 - 125*				

MS Sample ID: **HS15031133-08MS** Units: **ug/L** Analysis Date: **01-Apr-2015 14:49**
Client ID: Run ID: **VOA6_252081** SeqNo: **3231971** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	45.29	5.0	50	0	90.6	73 - 121				
Ethylbenzene	43.27	5.0	50	0	86.5	80 - 120				
Toluene	43.17	5.0	50	0	86.3	80 - 120				
Xylenes, Total	133.5	15	150	0	89.0	80 - 120				
Surr: 1,2-Dichloroethane-d4	*53.18*	*5.0*	*50*	*0*	*106*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*51.98*	*5.0*	*50*	*0*	*104*	*72 - 125*				
Surr: Dibromofluoromethane	*50.27*	*5.0*	*50*	*0*	*101*	*71 - 125*				
Surr: Toluene-d8	*48.72*	*5.0*	*50*	*0*	*97.4*	*75 - 125*				

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

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ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15031020

QC BATCH REPORT

Batch ID: R252081 **Instrument: VOA6** **Method: SW8260**

MSD Sample ID: **HS15031133-08MSD** Units: **ug/L** Analysis Date: **01-Apr-2015 15:13**
Client ID: Run ID: **VOA6_252081** SeqNo: **3231972** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	46.6	5.0	50	0	93.2	73 - 121	45.29	2.86	20	
Ethylbenzene	44.36	5.0	50	0	88.7	80 - 120	43.27	2.49	20	
Toluene	45.14	5.0	50	0	90.3	80 - 120	43.17	4.46	20	
Xylenes, Total	137.3	15	150	0	91.6	78 - 121	133.5	2.86	20	
Surr: 1,2-Dichloroethane-d4	*51.89*	*5.0*	*50*	*0*	*104*	*70 - 125*	*53.18*	*2.46*	*20*	
Surr: 4-Bromofluorobenzene	*52.67*	*5.0*	*50*	*0*	*105*	*72 - 125*	*51.98*	*1.32*	*20*	
Surr: Dibromofluoromethane	*51.58*	*5.0*	*50*	*0*	*103*	*71 - 125*	*50.27*	*2.58*	*20*	
Surr: Toluene-d8	*49*	*5.0*	*50*	*0*	*98.0*	*75 - 125*	*48.72*	*0.58*	*20*	

The following samples were anayzed in this batch: HS15031020-06

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

ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15031020

QC BATCH REPORT

Batch ID: R251907 **Instrument: ICS3K2** **Method: E300**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW1-033015** Units: **mg/L** Analysis Date: **30-Mar-2015 09:40**										
Client ID: Run ID: **ICS3K2_251907** SeqNo: **3228272** PrepDate: DF: **1**										
Chloride	U	0.500								
LCS Sample ID: **WLCSW1-033015** Units: **mg/L** Analysis Date: **30-Mar-2015 10:02**										
Client ID: Run ID: **ICS3K2_251907** SeqNo: **3228273** PrepDate: DF: **1**										
Chloride	20.15	0.500	20	0	101	90 - 110				
LCSD Sample ID: **WLCSDW1-033015** Units: **mg/L** Analysis Date: **30-Mar-2015 10:24**										
Client ID: Run ID: **ICS3K2_251907** SeqNo: **3228274** PrepDate: DF: **1**										
Chloride	19.91	0.500	20	0	99.5	90 - 110	20.15	1.22	20	
MS Sample ID: **HS15031027-05MS** Units: **mg/L** Analysis Date: **30-Mar-2015 12:38**										
Client ID: Run ID: **ICS3K2_251907** SeqNo: **3228280** PrepDate: DF: **1**										
Chloride	37.12	0.500	10	27.46	96.6	80 - 120				
MS Sample ID: **HS15031017-03MS** Units: **mg/L** Analysis Date: **30-Mar-2015 21:03**										
Client ID: Run ID: **ICS3K2_251907** SeqNo: **3228296** PrepDate: DF: **10**										
Chloride	189.6	5.00	100	92.3	97.3	80 - 120				
MSD Sample ID: **HS15031027-05MSD** Units: **mg/L** Analysis Date: **30-Mar-2015 12:59**										
Client ID: Run ID: **ICS3K2_251907** SeqNo: **3228281** PrepDate: DF: **1**										
Chloride	37.08	0.500	10	27.46	96.1	80 - 120	37.12	0.116	20	

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

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ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15031020

QC BATCH REPORT

Batch ID: R251907 **Instrument: ICS3K2** **Method: E300**

MSD Sample ID: **HS15031017-03MSD** Units: **mg/L** Analysis Date: **30-Mar-2015 21:25**
Client ID: Run ID: **ICS3K2_251907** SeqNo: **3228297** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	195.7	5.00	100	92.3	103	80 - 120	189.6	3.19	20	

The following samples were anayzed in this batch: HS15031020-01 HS15031020-02 HS15031020-03 HS15031020-04 HS15031020-05 HS15031020-06 HS15031020-07 HS15031020-08

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

ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15031020

QC BATCH REPORT

Batch ID: R251935 **Instrument: ICS3K2** **Method: E300**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW3-033015** Units: **mg/L** Analysis Date: **31-Mar-2015 01:23**										
Client ID: Run ID: **ICS3K2_251935** SeqNo: **3228832** PrepDate: DF: **1**										
Chloride	U	0.500								
LCS Sample ID: **WLCSW3-033015** Units: **mg/L** Analysis Date: **31-Mar-2015 01:45**										
Client ID: Run ID: **ICS3K2_251935** SeqNo: **3228833** PrepDate: DF: **1**										
Chloride	20.47	0.500	20	0	102	90 - 110				
LCSD Sample ID: **WLCSDW3-033015** Units: **mg/L** Analysis Date: **31-Mar-2015 02:07**										
Client ID: Run ID: **ICS3K2_251935** SeqNo: **3228834** PrepDate: DF: **1**										
Chloride	19.95	0.500	20	0	99.8	90 - 110	20.47	2.58	20	
MS Sample ID: **HS15031028-03MS** Units: **mg/L** Analysis Date: **31-Mar-2015 08:10**										
Client ID: Run ID: **ICS3K2_251935** SeqNo: **3228849** PrepDate: DF: **20**										
Chloride	466.8	10.0	100	350.2	117	80 - 120				
MS Sample ID: **HS15031020-09MS** Units: **mg/L** Analysis Date: **31-Mar-2015 03:55**										
Client ID: **MW-9** Run ID: **ICS3K2_251935** SeqNo: **3228839** PrepDate: DF: **10**										
Chloride	223.4	5.00	100	120.3	103	80 - 120				
MSD Sample ID: **HS15031028-03MSD** Units: **mg/L** Analysis Date: **31-Mar-2015 08:32**										
Client ID: Run ID: **ICS3K2_251935** SeqNo: **3228850** PrepDate: DF: **20**										
Chloride	466.1	10.0	100	350.2	116	80 - 120	466.8	0.149	20	

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

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ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15031020

QC BATCH REPORT

Batch ID: R251935 **Instrument: ICS3K2** **Method: E300**

MSD Sample ID: **HS15031020-09MSD** Units: **mg/L** Analysis Date: **31-Mar-2015 04:17**
Client ID: **MW-9** Run ID: **ICS3K2_251935** SeqNo: **3228840** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	224	5.00	100	120.3	104	80 - 120	223.4	0.259	20	

The following samples were anayzed in this batch: HS15031020-09

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

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ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS15031020**

QUALIFIERS, ACRONYMS, UNITS

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

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

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

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ALS Group USA, Corp Date: 02-Apr-15

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	15-024-0	27-Mar-2016
California	2919	31-Jul-2016
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003403	09-May-2015
Kansas	E-10352 2014-2015	31-Jul-2015
Kentucky	KY 2014-2015	30-Apr-2015
Louisiana	03087 2014/2015	30-Jun-2015
North Carolina	624 - 2015	31-Dec-2015
North Dakota	R-193 2025	30-Apr-2015
Oklahoma	2014-128	31-Aug-2015
Texas	T104704231-14-14	30-Apr-2015

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ALS Group USA, Corp Date: 02-Apr-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS15031020

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS15031020-01	MW-1	Login	3/27/2015 6:31:54 PM	RPG	19E
HS15031020-01	MW-1	Login	3/27/2015 6:31:54 PM	RPG	VW-3
HS15031020-02	MW-2	Login	3/27/2015 6:31:54 PM	RPG	19E
HS15031020-02	MW-2	Login	3/27/2015 6:31:54 PM	RPG	VW-3
HS15031020-03	MW-3	Login	3/27/2015 6:31:54 PM	RPG	19E
HS15031020-03	MW-3	Login	3/27/2015 6:31:54 PM	RPG	VW-3
HS15031020-04	MW-4	Login	3/27/2015 6:31:54 PM	RPG	19E
HS15031020-04	MW-4	Login	3/27/2015 6:31:54 PM	RPG	VW-3
HS15031020-05	MW-5	Login	3/27/2015 6:31:54 PM	RPG	19E
HS15031020-05	MW-5	Login	3/27/2015 6:31:54 PM	RPG	VW-3
HS15031020-06	MW-6	Login	3/27/2015 6:31:54 PM	RPG	19E
HS15031020-06	MW-6	Login	3/27/2015 6:31:54 PM	RPG	VW-3
HS15031020-07	MW-7	Login	3/27/2015 6:31:54 PM	RPG	19E
HS15031020-07	MW-7	Login	3/27/2015 6:31:54 PM	RPG	VW-3
HS15031020-08	MW-8	Login	3/27/2015 6:31:54 PM	RPG	19E
HS15031020-08	MW-8	Login	3/27/2015 6:31:54 PM	RPG	VW-3
HS15031020-09	MW-9	Login	3/27/2015 6:31:54 PM	RPG	19E
HS15031020-09	MW-9	Login	3/27/2015 6:31:54 PM	RPG	VW-3
HS15031020-10	Trip Blank 021715-99	Login	3/27/2015 6:31:54 PM	RPG	VW-3

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ALS Group USA, Corp Date: 02-Apr-15

Sample Receipt Checklist

Client Name: GLEN SPRINGS/CRA Date/Time Received: **27-Mar-2015 09:10**

Work Order: HS15031020 Received by: **DES**

Checklist completed by: *Raegen Giga* eSignature 27-Mar-2015 Date

Reviewed by: *Dane J. Wacasey* eSignature 30-Mar-2015 Date

Matrices: **water** Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
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):	0.5c/0.5c c/u	IR 1	
Cooler(s)/Kit(s):	24033		
Date/Time sample(s) sent to storage:	03/27/2015 18:40		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:

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

Chain of Custody Form

Page 1 of 1

COC ID: 118695

HS15031020

Glenn Springs Holdings

55627DM GSHI PXP Hill E C Federal 7 TB

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	4501709538	Project Name	GSHI PXP Hill, E.C. Federal #7 TB	A	BTEX (8260)
Work Order		Project Number	55627DM (ENV749A008)	B	Chloride by 300
Company Name	Glenn Springs Holdings	Bill To Company	Glenn Springs Holdings	C	
Send Report To	Angela Bown	Invoice Attn	Jennifer Devonshire	D	
Address	C/O CRA 9033 Merridian Way	Address	C/O CRA 2055 Niagara Falls Blvd. Suite 3	E	
City/State/Zip	West Chester,Ohio,45069	City/State/Zip	Niagara Falls, NY 14304	F	
Phone	(513) 942-4750	Phone		G	
Fax		Fax		H	
e-Mail Address		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	3-25-15	0955	Water	1/8	4	X	X									
2	MW-2	3-25-15	0945	Water	1/8	4	X	X									
3	MW-3	3-25-15	1045	Water	1/8	4	X	X									
4	MW-4	3-25-15	1030	Water	1/8	4	X	X									
5	MW-5	3-25-15	1200	Water	1/8	4	X	X									
6	MW-6	3-25-15	1020	Water	1/8	4	X	X									
7	MW-7	3-25-15	1220	Water	1/8	4	X	X									
8	MW-8	3-25-15	1100	Water	1/8	4	X	X									
9	MW-9	3-25-15	1120	Water	1/8	4	X	X									
10	Trip Blank			Water			X										

Sampler(s) Please Print & Sign: Mathew Mound

Shipment Method: Fed Ex

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

Results Due Date:

Notes: 10 Day TAT

Relinquished by: Todd Wells — Date: 3/26/15 — Time: 1630 — Received by:

Relinquished by: — Date: — Time: — Received by (Laboratory): 3.27.15 09:10

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

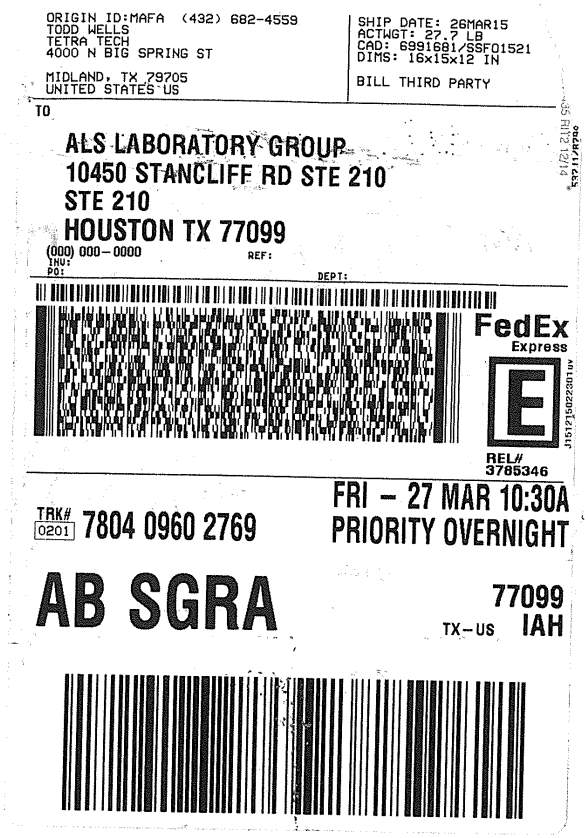
Cooler ID	Cooler Temp.
24033	0.5
	#3

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

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

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

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ORIGIN ID:MAFA (432) 682-4559
TODD WELLS
TETRA TECH
4000 N BIG SPRING ST

MIDLAND, TX 79705
UNITED STATES US

SHIP DATE: 26MAR15
ACTWGT: 27.7 LB
CAD: 6991681/SSFO1521
DIMS: 16x15x12 IN

BILL THIRD PARTY

TO

ALS LABORATORY GROUP
10450 STANCLIFF RD STE 210
STE 210
HOUSTON TX 77099

(000) 000-0000 REF:
INV:
PO: DEPT:

FedEx Express

REL# 3785346

TRK# 0201 7804 0960 2769

FRI - 27 MAR 10:30A
PRIORITY OVERNIGHT

AB SGRA

77099
TX-US IAH

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

June 25, 2015

Angela Bown
Glenn Springs Holdings
C/O CRA
2055 Niagara Falls Blvd. Suite 3
Niagara Falls, NY 14304

Work Order: **HS15060898**

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

Dear Angela,

ALS Environmental received 10 sample(s) on Jun 20, 2015 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: Jumoke.Lawal
Dane J. Wacasey

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS15060898

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS15060898-01	MW-1	Water		17-Jun-2015 13:13	20-Jun-2015 11:00	☐
HS15060898-02	MW-2	Water		17-Jun-2015 12:48	20-Jun-2015 11:00	☐
HS15060898-03	MW-3	Water		17-Jun-2015 13:45	20-Jun-2015 11:00	☐
HS15060898-04	MW-4	Water		17-Jun-2015 15:30	20-Jun-2015 11:00	☐
HS15060898-05	MW-5	Water		17-Jun-2015 15:00	20-Jun-2015 11:00	☐
HS15060898-06	MW-6	Water		17-Jun-2015 16:20	20-Jun-2015 11:00	☐
HS15060898-07	MW-7	Water		17-Jun-2015 16:10	20-Jun-2015 11:00	☐
HS15060898-08	MW-8	Water		17-Jun-2015 14:08	20-Jun-2015 11:00	☐
HS15060898-09	MW-9	Water		17-Jun-2015 14:40	20-Jun-2015 11:00	☐
HS15060898-10	TRIP BLANK 052215-52	Water		17-Jun-2015 00:00	20-Jun-2015 11:00	☐

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS15060898

Work Order Comments

- Analyst Initials and Names:
  PC Presenta Cabascango
  JBA Johnnie B. Allen

GCMS Volatiles by Method SW8260

Batch ID: R256677

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

Batch ID: R256680

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

WetChemistry by Method E300

Batch ID: R256662

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

Batch ID: R256668

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-1
Collection Date: 17-Jun-2015 13:13

ANALYTICAL REPORT
WorkOrder:HS15060898
Lab ID:HS15060898-01
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	23-Jun-2015 22:31
Ethylbenzene		U	0.50	5.0	ug/L	1	23-Jun-2015 22:31
Toluene		U	0.50	5.0	ug/L	1	23-Jun-2015 22:31
Xylenes, Total		U	1.5	15	ug/L	1	23-Jun-2015 22:31
Surr: 1,2-Dichloroethane-d4	*109*			*70-125*	*%REC*	*1*	*23-Jun-2015 22:31*
Surr: 4-Bromofluorobenzene	*96.3*			*72-125*	*%REC*	*1*	*23-Jun-2015 22:31*
Surr: Dibromofluoromethane	*111*			*71-125*	*%REC*	*1*	*23-Jun-2015 22:31*
Surr: Toluene-d8	*99.2*			*75-125*	*%REC*	*1*	*23-Jun-2015 22:31*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**220**		**2.00**	**5.00**	**mg/L**	10	23-Jun-2015 01:42

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

ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS15060898
Sample ID: MW-2
Lab ID:HS15060898-02
Collection Date: 17-Jun-2015 12:48
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	23-Jun-2015 20:25
Ethylbenzene		U	0.50	5.0	ug/L	1	23-Jun-2015 20:25
Toluene		U	0.50	5.0	ug/L	1	23-Jun-2015 20:25
Xylenes, Total		U	1.5	15	ug/L	1	23-Jun-2015 20:25
Surr: 1,2-Dichloroethane-d4	*116*			*70-125*	*%REC*	*1*	*23-Jun-2015 20:25*
Surr: 4-Bromofluorobenzene	*99.4*			*72-125*	*%REC*	*1*	*23-Jun-2015 20:25*
Surr: Dibromofluoromethane	*110*			*71-125*	*%REC*	*1*	*23-Jun-2015 20:25*
Surr: Toluene-d8	*96.6*			*75-125*	*%REC*	*1*	*23-Jun-2015 20:25*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**155**		**2.00**	**5.00**	**mg/L**	10	23-Jun-2015 02:04

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

ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-3
Collection Date: 17-Jun-2015 13:45

ANALYTICAL REPORT
WorkOrder:HS15060898
Lab ID:HS15060898-03
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	23-Jun-2015 20:49
Ethylbenzene		U	0.50	5.0	ug/L	1	23-Jun-2015 20:49
Toluene		U	0.50	5.0	ug/L	1	23-Jun-2015 20:49
Xylenes, Total		U	1.5	15	ug/L	1	23-Jun-2015 20:49
Surr: 1,2-Dichloroethane-d4	*115*			*70-125*	*%REC*	*1*	*23-Jun-2015 20:49*
Surr: 4-Bromofluorobenzene	*99.7*			*72-125*	*%REC*	*1*	*23-Jun-2015 20:49*
Surr: Dibromofluoromethane	*109*			*71-125*	*%REC*	*1*	*23-Jun-2015 20:49*
Surr: Toluene-d8	*101*			*75-125*	*%REC*	*1*	*23-Jun-2015 20:49*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**270**		**2.00**	**5.00**	**mg/L**	10	23-Jun-2015 02:25

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

ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-4
Collection Date: 17-Jun-2015 15:30

ANALYTICAL REPORT
WorkOrder:HS15060898
Lab ID:HS15060898-04
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	23-Jun-2015 21:14
Ethylbenzene		U	0.50	5.0	ug/L	1	23-Jun-2015 21:14
Toluene		U	0.50	5.0	ug/L	1	23-Jun-2015 21:14
Xylenes, Total		U	1.5	15	ug/L	1	23-Jun-2015 21:14
Surr: 1,2-Dichloroethane-d4	*115*			*70-125*	*%REC*	*1*	*23-Jun-2015 21:14*
Surr: 4-Bromofluorobenzene	*98.0*			*72-125*	*%REC*	*1*	*23-Jun-2015 21:14*
Surr: Dibromofluoromethane	*110*			*71-125*	*%REC*	*1*	*23-Jun-2015 21:14*
Surr: Toluene-d8	*98.7*			*75-125*	*%REC*	*1*	*23-Jun-2015 21:14*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**412**		**2.00**	**5.00**	**mg/L**	10	23-Jun-2015 02:47

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

ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-5
Collection Date: 17-Jun-2015 15:00

ANALYTICAL REPORT
WorkOrder:HS15060898
Lab ID:HS15060898-05
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	23-Jun-2015 21:38
Ethylbenzene		U	0.50	5.0	ug/L	1	23-Jun-2015 21:38
Toluene		U	0.50	5.0	ug/L	1	23-Jun-2015 21:38
Xylenes, Total		U	1.5	15	ug/L	1	23-Jun-2015 21:38
Surr: 1,2-Dichloroethane-d4	*115*			*70-125*	*%REC*	*1*	*23-Jun-2015 21:38*
Surr: 4-Bromofluorobenzene	*96.3*			*72-125*	*%REC*	*1*	*23-Jun-2015 21:38*
Surr: Dibromofluoromethane	*110*			*71-125*	*%REC*	*1*	*23-Jun-2015 21:38*
Surr: Toluene-d8	*99.7*			*75-125*	*%REC*	*1*	*23-Jun-2015 21:38*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**567**		**2.00**	**5.00**	**mg/L**	10	23-Jun-2015 04:57

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

ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS15060898
Sample ID: MW-6
Lab ID:HS15060898-06
Collection Date: 17-Jun-2015 16:20
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	23-Jun-2015 22:02
Ethylbenzene		U	0.50	5.0	ug/L	1	23-Jun-2015 22:02
Toluene		U	0.50	5.0	ug/L	1	23-Jun-2015 22:02
Xylenes, Total		U	1.5	15	ug/L	1	23-Jun-2015 22:02
Surr: 1,2-Dichloroethane-d4	*116*			*70-125*	*%REC*	*1*	*23-Jun-2015 22:02*
Surr: 4-Bromofluorobenzene	*98.0*			*72-125*	*%REC*	*1*	*23-Jun-2015 22:02*
Surr: Dibromofluoromethane	*111*			*71-125*	*%REC*	*1*	*23-Jun-2015 22:02*
Surr: Toluene-d8	*99.7*			*75-125*	*%REC*	*1*	*23-Jun-2015 22:02*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**99.0**		**1.00**	**2.50**	**mg/L**	5	23-Jun-2015 05:19

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

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ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7
Collection Date: 17-Jun-2015 16:10

ANALYTICAL REPORT
WorkOrder:HS15060898
Lab ID:HS15060898-07
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	23-Jun-2015 22:26
Ethylbenzene		U	0.50	5.0	ug/L	1	23-Jun-2015 22:26
Toluene		U	0.50	5.0	ug/L	1	23-Jun-2015 22:26
Xylenes, Total		U	1.5	15	ug/L	1	23-Jun-2015 22:26
Surr: 1,2-Dichloroethane-d4	*114*			*70-125*	*%REC*	*1*	*23-Jun-2015 22:26*
Surr: 4-Bromofluorobenzene	*96.6*			*72-125*	*%REC*	*1*	*23-Jun-2015 22:26*
Surr: Dibromofluoromethane	*109*			*71-125*	*%REC*	*1*	*23-Jun-2015 22:26*
Surr: Toluene-d8	*96.8*			*75-125*	*%REC*	*1*	*23-Jun-2015 22:26*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**1,820**		**20.0**	**50.0**	**mg/L**	100	23-Jun-2015 06:24

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

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ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-8
Collection Date: 17-Jun-2015 14:08

ANALYTICAL REPORT
WorkOrder:HS15060898
Lab ID:HS15060898-08
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	23-Jun-2015 22:51
Ethylbenzene		U	0.50	5.0	ug/L	1	23-Jun-2015 22:51
Toluene		U	0.50	5.0	ug/L	1	23-Jun-2015 22:51
Xylenes, Total		U	1.5	15	ug/L	1	23-Jun-2015 22:51
Surr: 1,2-Dichloroethane-d4	*116*			*70-125*	*%REC*	*1*	*23-Jun-2015 22:51*
Surr: 4-Bromofluorobenzene	*97.2*			*72-125*	*%REC*	*1*	*23-Jun-2015 22:51*
Surr: Dibromofluoromethane	*110*			*71-125*	*%REC*	*1*	*23-Jun-2015 22:51*
Surr: Toluene-d8	*101*			*75-125*	*%REC*	*1*	*23-Jun-2015 22:51*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**213**		**2.00**	**5.00**	**mg/L**	10	23-Jun-2015 06:46

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

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ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-9
Collection Date: 17-Jun-2015 14:40

ANALYTICAL REPORT
WorkOrder:HS15060898
Lab ID:HS15060898-09
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	23-Jun-2015 23:15
Ethylbenzene		U	0.50	5.0	ug/L	1	23-Jun-2015 23:15
Toluene		U	0.50	5.0	ug/L	1	23-Jun-2015 23:15
Xylenes, Total		U	1.5	15	ug/L	1	23-Jun-2015 23:15
Surr: 1,2-Dichloroethane-d4	*116*			*70-125*	*%REC*	*1*	*23-Jun-2015 23:15*
Surr: 4-Bromofluorobenzene	*96.8*			*72-125*	*%REC*	*1*	*23-Jun-2015 23:15*
Surr: Dibromofluoromethane	*111*			*71-125*	*%REC*	*1*	*23-Jun-2015 23:15*
Surr: Toluene-d8	*101*			*75-125*	*%REC*	*1*	*23-Jun-2015 23:15*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**128**		**2.00**	**5.00**	**mg/L**	10	23-Jun-2015 07:07

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

ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS15060898
Sample ID: TRIP BLANK 052215-52
Lab ID:HS15060898-10
Collection Date: 17-Jun-2015 00:00
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	23-Jun-2015 21:44
Ethylbenzene		U	0.50	5.0	ug/L	1	23-Jun-2015 21:44
Toluene		U	0.50	5.0	ug/L	1	23-Jun-2015 21:44
Xylenes, Total		U	1.5	15	ug/L	1	23-Jun-2015 21:44
Surr: 1,2-Dichloroethane-d4	*111*			*70-125*	*%REC*	*1*	*23-Jun-2015 21:44*
Surr: 4-Bromofluorobenzene	*96.6*			*72-125*	*%REC*	*1*	*23-Jun-2015 21:44*
Surr: Dibromofluoromethane	*112*			*71-125*	*%REC*	*1*	*23-Jun-2015 21:44*
Surr: Toluene-d8	*99.6*			*75-125*	*%REC*	*1*	*23-Jun-2015 21:44*

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

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ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15060898

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R256662	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS15060898-01	MW-1	17 Jun 2015 13:13			23 Jun 2015 01:42	10
HS15060898-02	MW-2	17 Jun 2015 12:48			23 Jun 2015 02:04	10
HS15060898-03	MW-3	17 Jun 2015 13:45			23 Jun 2015 02:25	10
HS15060898-04	MW-4	17 Jun 2015 15:30			23 Jun 2015 02:47	10
Batch ID R256668	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS15060898-05	MW-5	17 Jun 2015 15:00			23 Jun 2015 04:57	10
HS15060898-06	MW-6	17 Jun 2015 16:20			23 Jun 2015 05:19	5
HS15060898-07	MW-7	17 Jun 2015 16:10			23 Jun 2015 06:24	100
HS15060898-08	MW-8	17 Jun 2015 14:08			23 Jun 2015 06:46	10
HS15060898-09	MW-9	17 Jun 2015 14:40			23 Jun 2015 07:07	10
Batch ID R256677	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS15060898-02	MW-2	17 Jun 2015 12:48			23 Jun 2015 20:25	1
HS15060898-03	MW-3	17 Jun 2015 13:45			23 Jun 2015 20:49	1
HS15060898-04	MW-4	17 Jun 2015 15:30			23 Jun 2015 21:14	1
HS15060898-05	MW-5	17 Jun 2015 15:00			23 Jun 2015 21:38	1
HS15060898-06	MW-6	17 Jun 2015 16:20			23 Jun 2015 22:02	1
HS15060898-07	MW-7	17 Jun 2015 16:10			23 Jun 2015 22:26	1
HS15060898-08	MW-8	17 Jun 2015 14:08			23 Jun 2015 22:51	1
HS15060898-09	MW-9	17 Jun 2015 14:40			23 Jun 2015 23:15	1
Batch ID R256680	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS15060898-01	MW-1	17 Jun 2015 13:13			23 Jun 2015 22:31	1
HS15060898-10	TRIP BLANK 052215-52	17 Jun 2015 00:00			23 Jun 2015 21:44	1

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15060898

QC BATCH REPORT

Batch ID: R256677 **Instrument: VOA6** **Method: SW8260**

MBLK Sample ID: **VBLKW-150623** Units: **ug/L** Analysis Date: **23-Jun-2015 13:56**
Client ID: Run ID: **VOA6_256677** SeqNo: **3331095** 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	15								
Surr: 1,2-Dichloroethane-d4	*59.58*	*0*	*50*	*0*	*119*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*49.17*	*0*	*50*	*0*	*98.3*	*72 - 125*				
Surr: Dibromofluoromethane	*56.39*	*0*	*50*	*0*	*113*	*71 - 125*				
Surr: Toluene-d8	*48.97*	*0*	*50*	*0*	*97.9*	*75 - 125*				

LCS Sample ID: **VLCSW-150623** Units: **ug/L** Analysis Date: **23-Jun-2015 12:19**
Client ID: Run ID: **VOA6_256677** SeqNo: **3331094** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	56.26	5.0	50	0	113	73 - 121				
Ethylbenzene	52.17	5.0	50	0	104	80 - 120				
Toluene	53.08	5.0	50	0	106	80 - 120				
Xylenes, Total	152.7	15	150	0	102	80 - 120				
Surr: 1,2-Dichloroethane-d4	*59.5*	*0*	*50*	*0*	*119*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*50.98*	*0*	*50*	*0*	*102*	*72 - 125*				
Surr: Dibromofluoromethane	*56.41*	*0*	*50*	*0*	*113*	*71 - 125*				
Surr: Toluene-d8	*50.25*	*0*	*50*	*0*	*101*	*75 - 125*				

MS Sample ID: **HS15060799-01MS** Units: **ug/L** Analysis Date: **23-Jun-2015 15:58**
Client ID: Run ID: **VOA6_256677** SeqNo: **3331097** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1042	100	1000	0	104	73 - 121				
Ethylbenzene	942.8	100	1000	0	94.3	80 - 120				
Toluene	970.6	100	1000	0	97.1	80 - 120				
Xylenes, Total	2786	300	3000	0	92.9	80 - 120				
Surr: 1,2-Dichloroethane-d4	*1123*	*0*	*1000*	*0*	*112*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*1032*	*0*	*1000*	*0*	*103*	*72 - 125*				
Surr: Dibromofluoromethane	*1079*	*0*	*1000*	*0*	*108*	*71 - 125*				
Surr: Toluene-d8	*984.1*	*0*	*1000*	*0*	*98.4*	*75 - 125*				

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15060898

QC BATCH REPORT

Batch ID: R256677 **Instrument: VOA6** **Method: SW8260**

MSD Sample ID: **HS15060799-01MSD** Units: **ug/L** Analysis Date: **23-Jun-2015 16:22**
Client ID: Run ID: **VOA6_256677** SeqNo: **3331098** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1042	100	1000	0	104	73 - 121	1042	0.0329	20	
Ethylbenzene	948.8	100	1000	0	94.9	80 - 120	942.8	0.632	20	
Toluene	975	100	1000	0	97.5	80 - 120	970.6	0.447	20	
Xylenes, Total	2835	300	3000	0	94.5	78 - 121	2786	1.76	20	
Surr: 1,2-Dichloroethane-d4	*1128*	*0*	*1000*	*0*	*113*	*70 - 125*	*1123*	*0.508*	*20*	
Surr: 4-Bromofluorobenzene	*1050*	*0*	*1000*	*0*	*105*	*72 - 125*	*1032*	*1.77*	*20*	
Surr: Dibromofluoromethane	*1086*	*0*	*1000*	*0*	*109*	*71 - 125*	*1079*	*0.657*	*20*	
Surr: Toluene-d8	*990.3*	*0*	*1000*	*0*	*99.0*	*75 - 125*	*984.1*	*0.631*	*20*	

The following samples were anayzed in this batch: HS15060898-02 HS15060898-03 HS15060898-04 HS15060898-05 HS15060898-06 HS15060898-07 HS15060898-08 HS15060898-09

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

ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15060898

QC BATCH REPORT

Batch ID: R256680 **Instrument: VOA7** **Method: SW8260**

MBLK Sample ID: **VBLKW-150623** Units: **ug/L** Analysis Date: **23-Jun-2015 13:25**
Client ID: Run ID: **VOA7_256680** SeqNo: **3330166** 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	15								
Surr: 1,2-Dichloroethane-d4	*56.97*	*0*	*50*	*0*	*114*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*47.01*	*0*	*50*	*0*	*94.0*	*72 - 125*				
Surr: Dibromofluoromethane	*57.71*	*0*	*50*	*0*	*115*	*71 - 125*				
Surr: Toluene-d8	*50.49*	*0*	*50*	*0*	*101*	*75 - 125*				

LCS Sample ID: **VLCSW-150623** Units: **ug/L** Analysis Date: **23-Jun-2015 11:50**
Client ID: Run ID: **VOA7_256680** SeqNo: **3330165** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	52.91	5.0	50	0	106	73 - 121				
Ethylbenzene	51.39	5.0	50	0	103	80 - 120				
Toluene	51.09	5.0	50	0	102	80 - 120				
Xylenes, Total	155	15	150	0	103	80 - 120				
Surr: 1,2-Dichloroethane-d4	*58.88*	*0*	*50*	*0*	*118*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*51.87*	*0*	*50*	*0*	*104*	*72 - 125*				
Surr: Dibromofluoromethane	*57.25*	*0*	*50*	*0*	*115*	*71 - 125*				
Surr: Toluene-d8	*50.09*	*0*	*50*	*0*	*100*	*75 - 125*				

MS Sample ID: **HS15060748-01MS** Units: **ug/L** Analysis Date: **23-Jun-2015 14:36**
Client ID: Run ID: **VOA7_256680** SeqNo: **3330321** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.51	5.0	50	0	97.0	73 - 121				
Ethylbenzene	45.05	5.0	50	0	90.1	80 - 120				
Toluene	46.53	5.0	50	0	93.1	80 - 120				
Xylenes, Total	139.1	15	150	0	92.7	80 - 120				
Surr: 1,2-Dichloroethane-d4	*59.16*	*0*	*50*	*0*	*118*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*52.21*	*0*	*50*	*0*	*104*	*72 - 125*				
Surr: Dibromofluoromethane	*58.22*	*0*	*50*	*0*	*116*	*71 - 125*				
Surr: Toluene-d8	*50.05*	*0*	*50*	*0*	*100*	*75 - 125*				

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

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ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15060898

QC BATCH REPORT

Batch ID: R256680 **Instrument: VOA7** **Method: SW8260**

MSD Sample ID: **HS15060748-01MSD** Units: **ug/L** Analysis Date: **23-Jun-2015 14:59**
Client ID: Run ID: **VOA7_256680** SeqNo: **3330322** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	49.86	5.0	50	0	99.7	73 - 121	48.51	2.74	20	
Ethylbenzene	48.9	5.0	50	0	97.8	80 - 120	45.05	8.2	20	
Toluene	48.47	5.0	50	0	96.9	80 - 120	46.53	4.08	20	
Xylenes, Total	147	15	150	0	98.0	78 - 121	139.1	5.52	20	
Surr: 1,2-Dichloroethane-d4	*60.05*	*0*	*50*	*0*	*120*	*70 - 125*	*59.16*	*1.5*	*20*	
Surr: 4-Bromofluorobenzene	*52.6*	*0*	*50*	*0*	*105*	*72 - 125*	*52.21*	*0.753*	*20*	
Surr: Dibromofluoromethane	*58.18*	*0*	*50*	*0*	*116*	*71 - 125*	*58.22*	*0.0644*	*20*	
Surr: Toluene-d8	*49.63*	*0*	*50*	*0*	*99.3*	*75 - 125*	*50.05*	*0.836*	*20*	

The following samples were anayzed in this batch: HS15060898-01 HS15060898-10

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

ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15060898

QC BATCH REPORT

Batch ID: R256662 **Instrument: ICS3K2** **Method: E300**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW2-062215** Units: **mg/L** Analysis Date: **22-Jun-2015 13:47**										
Client ID: Run ID: **ICS3K2_256662** SeqNo: **3329599** PrepDate: DF: **1**										
Chloride	U	0.500								
LCS Sample ID: **WLCSW2-062215** Units: **mg/L** Analysis Date: **22-Jun-2015 14:08**										
Client ID: Run ID: **ICS3K2_256662** SeqNo: **3329600** PrepDate: DF: **1**										
Chloride	20.97	0.500	20	0	105	90 - 110				
LCSD Sample ID: **WLCSDW2-062215** Units: **mg/L** Analysis Date: **22-Jun-2015 14:30**										
Client ID: Run ID: **ICS3K2_256662** SeqNo: **3329601** PrepDate: DF: **1**										
Chloride	21.01	0.500	20	0	105	90 - 110	20.97	0.172	20	
MS Sample ID: **HS15060875-03MS** Units: **mg/L** Analysis Date: **22-Jun-2015 22:48**										
Client ID: Run ID: **ICS3K2_256662** SeqNo: **3329620** PrepDate: DF: **1**										
Chloride	61.9	0.500	10	52.38	95.1	80 - 120				O
MS Sample ID: **HS15060833-06MS** Units: **mg/L** Analysis Date: **22-Jun-2015 17:44**										
Client ID: Run ID: **ICS3K2_256662** SeqNo: **3329606** PrepDate: DF: **20**										
Chloride	569	10.0	200	351.8	109	80 - 120				
MSD Sample ID: **HS15060875-03MSD** Units: **mg/L** Analysis Date: **22-Jun-2015 23:53**										
Client ID: Run ID: **ICS3K2_256662** SeqNo: **3329623** PrepDate: DF: **1**										
Chloride	62.39	0.500	10	52.38	100	80 - 120	61.9	0.789	20	O

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

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ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15060898

QC BATCH REPORT

Batch ID: R256662 **Instrument: ICS3K2** **Method: E300**

MSD Sample ID: **HS15060833-06MSD** Units: **mg/L** Analysis Date: **22-Jun-2015 18:06**
Client ID: Run ID: **ICS3K2_256662** SeqNo: **3329607** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	569	10.0	200	351.8	109	80 - 120	569	0.00211	20	

The following samples were anayzed in this batch: HS15060898-01 HS15060898-02 HS15060898-03 HS15060898-04

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

ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15060898

QC BATCH REPORT

Batch ID: R256668 **Instrument: ICS3K2** **Method: E300**

MBLK Sample ID: **WBLKW3-062215** Units: **mg/L** Analysis Date: **23-Jun-2015 03:09**
Client ID: Run ID: **ICS3K2_256668** SeqNo: **3329750** 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: **WLCSW3-062215** Units: **mg/L** Analysis Date: **23-Jun-2015 04:14**
Client ID: Run ID: **ICS3K2_256668** SeqNo: **3329753** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.16	0.500	20	0	101	90 - 110				

LCSD Sample ID: **WLCSDW3-062215** Units: **mg/L** Analysis Date: **23-Jun-2015 04:35**
Client ID: Run ID: **ICS3K2_256668** SeqNo: **3329754** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.06	0.500	20	0	100	90 - 110	20.16	0.502	20	

MS Sample ID: **HS15060898-06MS** Units: **mg/L** Analysis Date: **23-Jun-2015 05:41**
Client ID: **MW-6** Run ID: **ICS3K2_256668** SeqNo: **3329757** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	150.8	2.50	50	98.97	104	80 - 120				

MSD Sample ID: **HS15060898-06MSD** Units: **mg/L** Analysis Date: **23-Jun-2015 06:02**
Client ID: **MW-6** Run ID: **ICS3K2_256668** SeqNo: **3329758** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	150.6	2.50	50	98.97	103	80 - 120	150.8	0.139	20	

The following samples were anayzed in this batch: HS15060898-05 HS15060898-06 HS15060898-07 HS15060898-08 HS15060898-09

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

ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS15060898**

QUALIFIERS, ACRONYMS, UNITS

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

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

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

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ALS Group USA, Corp Date: 25-Jun-15

CERTIFICATIONS,ACCREDITATIONS & LICENSES

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

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ALS Group USA, Corp Date: 25-Jun-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS15060898

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS15060898-01	MW-1	Login	6/22/2015 10:30:22 AM	RPG	13C
HS15060898-01	MW-1	Login	6/22/2015 10:30:22 AM	RPG	VW-3
HS15060898-02	MW-2	Login	6/22/2015 10:30:22 AM	RPG	13C
HS15060898-02	MW-2	Login	6/22/2015 10:30:22 AM	RPG	VW-3
HS15060898-03	MW-3	Login	6/22/2015 10:30:22 AM	RPG	13C
HS15060898-03	MW-3	Login	6/22/2015 10:30:22 AM	RPG	VW-3
HS15060898-04	MW-4	Login	6/22/2015 10:30:22 AM	RPG	13C
HS15060898-04	MW-4	Login	6/22/2015 10:30:22 AM	RPG	VW-3
HS15060898-05	MW-5	Login	6/22/2015 10:30:22 AM	RPG	13C
HS15060898-05	MW-5	Login	6/22/2015 10:30:22 AM	RPG	VW-3
HS15060898-06	MW-6	Login	6/22/2015 10:30:22 AM	RPG	13C
HS15060898-06	MW-6	Login	6/22/2015 10:30:22 AM	RPG	VW-3
HS15060898-07	MW-7	Login	6/22/2015 10:30:22 AM	RPG	13C
HS15060898-07	MW-7	Login	6/22/2015 10:30:22 AM	RPG	VW-3
HS15060898-08	MW-8	Login	6/22/2015 10:30:22 AM	RPG	13C
HS15060898-08	MW-8	Login	6/22/2015 10:30:22 AM	RPG	VW-3
HS15060898-09	MW-9	Login	6/22/2015 10:30:22 AM	RPG	13C
HS15060898-09	MW-9	Login	6/22/2015 10:30:22 AM	RPG	VW-3
HS15060898-10	TRIP BLANK 052215-52	Login	6/22/2015 10:30:22 AM	RPG	VW-3

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ALS Group USA, Corp Date: 25-Jun-15

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **20-Jun-2015 11:00**

Work Order: HS15060898 Received by: **PMG**

Checklist completed by: *Raegen Giga* eSignature 22-Jun-2015 Date Reviewed by: *Dane J. Wacasey* eSignature 24-Jun-2015 Date

Matrices: **water** Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
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):	0.2c/0.5c U/C	IR 4	
Cooler(s)/Kit(s):	24111		
Date/Time sample(s) sent to storage:	06/22/2015 10:30		
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: samples stored in walk in cooler prior to log in

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:

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ALS Environmental
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Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
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Chain of Custody Form

Page ____ of ____

COC ID: 128239

HS15060898

Glenn Springs Holdings

55627DM GSHI PXP Hill E.C. Federal #7 TB



ALS Project Manager:

Customer Information		Project Information			
Purchase Order	4501709538	Project Name	GSHI PXP Hill, E.C. Federal #7 TB	A	BTEX (8260)
Work Order		Project Number	55627DM (ENV749A008)	B	Chloride (300)
Company Name	Glenn Springs Holdings	Bill To Company	Glenn Springs Holdings	C	
Send Report To	Angela Bown	Invoice Attn	Jennifer Devonshire	D	
Address	C/O CRA 9033 Merridian Way	Address	C/O CRA 2055 Niagara Falls Blvd. Suite 3	E	
				F	
City/State/Zip	West Chester,Ohio,45069	City/State/Zip	Niagara Falls, NY 14304	G	
Phone	(513) 942-4750	Phone		H	
Fax		Fax		I	
e-Mail Address	abown@craworld.com	e-Mail Address	jdevonshire@craworld.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1	6-17-15	1313	Water	1/8	4		X	X								
2	MW-2	6-17-15	1248	Water	1/8	4		X	X								
3	MW-3	6-17-15	1345	Water	1/8	4		X	X								
4	MW-4	6-17-15	1530	Water	1/8	4		X	X								
5	MW-5	6-17-15	1500	Water	1/8	4		X	X								
6	MW-6	6-17-15	1620	Water	1/8	4		X	X								
7	MW-7	6-17-15	1610	Water	1/8	4		X	X								
8	MW-8	6-17-15	1408	Water	1/8	4		X	X								
9	MW-9	6-17-15	1440	Water	1/8	4		X	X								
10	Trip Blank	6-17-15		Water				X									

Sampler(s) Please Print & Sign: Mathew McDaniel

Shipment Method: Fedex

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

Results Due Date:

Relinquished by: [signature] Date: 6-18-15 Time: 1200

Received by:

Relinquished by: Date: Time:

Received by (Laboratory): P Giga 6/20/15 11:00

Logged by (Laboratory): Date: Time:

Checked by (Laboratory):

Notes: 10 Day TAT

Cooler ID	Cooler Temp.
24111	0.2
IR#4	

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

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

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

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1 of 4

AK# 8071 0710 5568

MASTER

XO SGRA

SATURDAY 12:00P
PRIORITY OVERNIGHT

77099
TX-US IAH

CUSTODY SEAL

Date: 4/11 Time:

Name:

Company:

Seal Broken By:

Date: 4/22/15

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

Date:
Name:
Comp

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

September 21, 2015

Angela Bown
Glenn Springs Holdings
C/O GHD
2055 Niagara Falls Blvd. Suite 3
Niagara Falls, NY 14304

Work Order: **HS15090473**

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

Dear Angela,

ALS Environmental received 10 sample(s) on Sep 11, 2015 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: Jumoke.Lawal
Dane J. Wacasey

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS15090473

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS15090473-01	Trip Blank-082815-03	Water		09-Sep-2015 00:00	11-Sep-2015 09:05	☐
HS15090473-02	MW-1	Water		09-Sep-2015 09:05	11-Sep-2015 09:05	☐
HS15090473-03	MW-2	Water		09-Sep-2015 10:00	11-Sep-2015 09:05	☐
HS15090473-04	MW-3	Water		09-Sep-2015 10:30	11-Sep-2015 09:05	☐
HS15090473-05	MW-4	Water		09-Sep-2015 11:30	11-Sep-2015 09:05	☐
HS15090473-06	MW-5	Water		09-Sep-2015 11:15	11-Sep-2015 09:05	☐
HS15090473-07	MW-6	Water		09-Sep-2015 11:45	11-Sep-2015 09:05	☐
HS15090473-08	MW-7	Water		09-Sep-2015 11:45	11-Sep-2015 09:05	☐
HS15090473-09	MW-8	Water		09-Sep-2015 10:40	11-Sep-2015 09:05	☐
HS15090473-10	MW-9	Water		09-Sep-2015 11:00	11-Sep-2015 09:05	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS15090473

GCMS Volatiles by Method SW8260

Batch ID: R261170,R261182

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

WetChemistry by Method E300

Batch ID: R261315,R261485

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

Analyst Names and Initials

KHT Kory H. Tate

PC Presenta Cabascango

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB WorkOrder:HS15090473
Sample ID: Trip Blank-082815-03 Lab ID:HS15090473-01
Collection Date: 09-Sep-2015 00:00 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	14-Sep-2015 20:31
Ethylbenzene		U	0.50	5.0	ug/L	1	14-Sep-2015 20:31
Toluene		U	0.50	5.0	ug/L	1	14-Sep-2015 20:31
Xylenes, Total		U	1.5	15	ug/L	1	14-Sep-2015 20:31
Surr: 1,2-Dichloroethane-d4	*103*			*70-125*	*%REC*	*1*	*14-Sep-2015 20:31*
Surr: 4-Bromofluorobenzene	*84.2*			*72-125*	*%REC*	*1*	*14-Sep-2015 20:31*
Surr: Dibromofluoromethane	*104*			*71-125*	*%REC*	*1*	*14-Sep-2015 20:31*
Surr: Toluene-d8	*93.6*			*75-125*	*%REC*	*1*	*14-Sep-2015 20:31*

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-1
Collection Date: 09-Sep-2015 09:05

ANALYTICAL REPORT
WorkOrder:HS15090473
Lab ID:HS15090473-02
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	14-Sep-2015 20:55
Ethylbenzene		U	0.50	5.0	ug/L	1	14-Sep-2015 20:55
Toluene		U	0.50	5.0	ug/L	1	14-Sep-2015 20:55
Xylenes, Total		U	1.5	15	ug/L	1	14-Sep-2015 20:55
Surr: 1,2-Dichloroethane-d4	*95.3*			*70-125*	*%REC*	*1*	*14-Sep-2015 20:55*
Surr: 4-Bromofluorobenzene	*83.3*			*72-125*	*%REC*	*1*	*14-Sep-2015 20:55*
Surr: Dibromofluoromethane	*98.6*			*71-125*	*%REC*	*1*	*14-Sep-2015 20:55*
Surr: Toluene-d8	*94.4*			*75-125*	*%REC*	*1*	*14-Sep-2015 20:55*
ANIONS BY E300.0		**Method:E300**					Analyst: KHT
Chloride	**230**		**2.00**	**5.00**	**mg/L**	10	16-Sep-2015 07:01

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS15090473
Sample ID: MW-2
Lab ID:HS15090473-03
Collection Date: 09-Sep-2015 10:00
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	15-Sep-2015 02:33
Ethylbenzene		U	0.50	5.0	ug/L	1	15-Sep-2015 02:33
Toluene		U	0.50	5.0	ug/L	1	15-Sep-2015 02:33
Xylenes, Total		U	1.5	15	ug/L	1	15-Sep-2015 02:33
Surr: 1,2-Dichloroethane-d4	*105*			*70-125*	*%REC*	*1*	*15-Sep-2015 02:33*
Surr: 4-Bromofluorobenzene	*90.3*			*72-125*	*%REC*	*1*	*15-Sep-2015 02:33*
Surr: Dibromofluoromethane	*104*			*71-125*	*%REC*	*1*	*15-Sep-2015 02:33*
Surr: Toluene-d8	*93.4*			*75-125*	*%REC*	*1*	*15-Sep-2015 02:33*
ANIONS BY E300.0		**Method:E300**					Analyst: KHT
Chloride	**28.0**		**2.00**	**5.00**	**mg/L**	10	18-Sep-2015 21:25

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS15090473
Sample ID: MW-3
Lab ID:HS15090473-04
Collection Date: 09-Sep-2015 10:30
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	15-Sep-2015 02:57
Ethylbenzene		U	0.50	5.0	ug/L	1	15-Sep-2015 02:57
Toluene		U	0.50	5.0	ug/L	1	15-Sep-2015 02:57
Xylenes, Total		U	1.5	15	ug/L	1	15-Sep-2015 02:57
Surr: 1,2-Dichloroethane-d4	*104*			*70-125*	*%REC*	*1*	*15-Sep-2015 02:57*
Surr: 4-Bromofluorobenzene	*86.0*			*72-125*	*%REC*	*1*	*15-Sep-2015 02:57*
Surr: Dibromofluoromethane	*103*			*71-125*	*%REC*	*1*	*15-Sep-2015 02:57*
Surr: Toluene-d8	*93.0*			*75-125*	*%REC*	*1*	*15-Sep-2015 02:57*
ANIONS BY E300.0		**Method:E300**					Analyst: KHT
Chloride	**145**		**2.00**	**5.00**	**mg/L**	10	16-Sep-2015 07:59

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS15090473
Sample ID: MW-4
Lab ID:HS15090473-05
Collection Date: 09-Sep-2015 11:30
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	15-Sep-2015 03:45
Ethylbenzene		U	0.50	5.0	ug/L	1	15-Sep-2015 03:45
Toluene		U	0.50	5.0	ug/L	1	15-Sep-2015 03:45
Xylenes, Total		U	1.5	15	ug/L	1	15-Sep-2015 03:45
Surr: 1,2-Dichloroethane-d4	*104*			*70-125*	*%REC*	*1*	*15-Sep-2015 03:45*
Surr: 4-Bromofluorobenzene	*86.4*			*72-125*	*%REC*	*1*	*15-Sep-2015 03:45*
Surr: Dibromofluoromethane	*105*			*71-125*	*%REC*	*1*	*15-Sep-2015 03:45*
Surr: Toluene-d8	*97.4*			*75-125*	*%REC*	*1*	*15-Sep-2015 03:45*
ANIONS BY E300.0		**Method:E300**					Analyst: KHT
Chloride	**227**		**2.00**	**5.00**	**mg/L**	10	16-Sep-2015 08:28

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-5
Collection Date: 09-Sep-2015 11:15

ANALYTICAL REPORT
WorkOrder:HS15090473
Lab ID:HS15090473-06
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	15-Sep-2015 04:09
Ethylbenzene	U		0.50	5.0	ug/L	1	15-Sep-2015 04:09
Toluene	U		0.50	5.0	ug/L	1	15-Sep-2015 04:09
Xylenes, Total	U		1.5	15	ug/L	1	15-Sep-2015 04:09
Surr: 1,2-Dichloroethane-d4	*105*			*70-125*	*%REC*	*1*	*15-Sep-2015 04:09*
Surr: 4-Bromofluorobenzene	*85.4*			*72-125*	*%REC*	*1*	*15-Sep-2015 04:09*
Surr: Dibromofluoromethane	*103*			*71-125*	*%REC*	*1*	*15-Sep-2015 04:09*
Surr: Toluene-d8	*92.4*			*75-125*	*%REC*	*1*	*15-Sep-2015 04:09*
ANIONS BY E300.0		**Method:E300**					Analyst: KHT
Chloride	**594**		**4.00**	**10.0**	**mg/L**	20	16-Sep-2015 09:12

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-6
Collection Date: 09-Sep-2015 11:45

ANALYTICAL REPORT
WorkOrder:HS15090473
Lab ID:HS15090473-07
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	15-Sep-2015 05:22
Ethylbenzene		U	0.50	5.0	ug/L	1	15-Sep-2015 05:22
Toluene		U	0.50	5.0	ug/L	1	15-Sep-2015 05:22
Xylenes, Total		U	1.5	15	ug/L	1	15-Sep-2015 05:22
Surr: 1,2-Dichloroethane-d4	*100*			*70-125*	*%REC*	*1*	*15-Sep-2015 05:22*
Surr: 4-Bromofluorobenzene	*85.6*			*72-125*	*%REC*	*1*	*15-Sep-2015 05:22*
Surr: Dibromofluoromethane	*101*			*71-125*	*%REC*	*1*	*15-Sep-2015 05:22*
Surr: Toluene-d8	*95.7*			*75-125*	*%REC*	*1*	*15-Sep-2015 05:22*
ANIONS BY E300.0		**Method:E300**					Analyst: KHT
Chloride	**96.6**		**0.200**	**0.500**	**mg/L**	1	16-Sep-2015 09:26

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7
Collection Date: 09-Sep-2015 11:45

ANALYTICAL REPORT
WorkOrder:HS15090473
Lab ID:HS15090473-08
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	15-Sep-2015 05:46
Ethylbenzene		U	0.50	5.0	ug/L	1	15-Sep-2015 05:46
Toluene		U	0.50	5.0	ug/L	1	15-Sep-2015 05:46
Xylenes, Total		U	1.5	15	ug/L	1	15-Sep-2015 05:46
Surr: 1,2-Dichloroethane-d4	*103*			*70-125*	*%REC*	*1*	*15-Sep-2015 05:46*
Surr: 4-Bromofluorobenzene	*86.9*			*72-125*	*%REC*	*1*	*15-Sep-2015 05:46*
Surr: Dibromofluoromethane	*103*			*71-125*	*%REC*	*1*	*15-Sep-2015 05:46*
Surr: Toluene-d8	*93.3*			*75-125*	*%REC*	*1*	*15-Sep-2015 05:46*
ANIONS BY E300.0		**Method:E300**					Analyst: KHT
Chloride	**1,380**		**4.00**	**10.0**	**mg/L**	20	16-Sep-2015 09:55

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-8
Collection Date: 09-Sep-2015 10:40

ANALYTICAL REPORT
WorkOrder:HS15090473
Lab ID:HS15090473-09
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	15-Sep-2015 06:59
Ethylbenzene		U	0.50	5.0	ug/L	1	15-Sep-2015 06:59
Toluene		U	0.50	5.0	ug/L	1	15-Sep-2015 06:59
Xylenes, Total		U	1.5	15	ug/L	1	15-Sep-2015 06:59
Surr: 1,2-Dichloroethane-d4	*106*			*70-125*	*%REC*	*1*	*15-Sep-2015 06:59*
Surr: 4-Bromofluorobenzene	*86.2*			*72-125*	*%REC*	*1*	*15-Sep-2015 06:59*
Surr: Dibromofluoromethane	*99.9*			*71-125*	*%REC*	*1*	*15-Sep-2015 06:59*
Surr: Toluene-d8	*93.4*			*75-125*	*%REC*	*1*	*15-Sep-2015 06:59*
ANIONS BY E300.0		**Method:E300**					Analyst: KHT
Chloride	**163**		**2.00**	**5.00**	**mg/L**	10	16-Sep-2015 10:24

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-9
Collection Date: 09-Sep-2015 11:00

ANALYTICAL REPORT
WorkOrder:HS15090473
Lab ID:HS15090473-10
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	15-Sep-2015 07:23
Ethylbenzene		U	0.50	5.0	ug/L	1	15-Sep-2015 07:23
Toluene		U	0.50	5.0	ug/L	1	15-Sep-2015 07:23
Xylenes, Total		U	1.5	15	ug/L	1	15-Sep-2015 07:23
Surr: 1,2-Dichloroethane-d4	*104*			*70-125*	*%REC*	*1*	*15-Sep-2015 07:23*
Surr: 4-Bromofluorobenzene	*84.6*			*72-125*	*%REC*	*1*	*15-Sep-2015 07:23*
Surr: Dibromofluoromethane	*104*			*71-125*	*%REC*	*1*	*15-Sep-2015 07:23*
Surr: Toluene-d8	*92.0*			*75-125*	*%REC*	*1*	*15-Sep-2015 07:23*
ANIONS BY E300.0		**Method:E300**					Analyst: KHT
Chloride	**119**		**2.00**	**5.00**	**mg/L**	10	16-Sep-2015 10:54

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15090473

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R261170	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS15090473-01	Trip Blank-082815-03	09 Sep 2015 00:00			14 Sep 2015 20:31	1
HS15090473-02	MW-1	09 Sep 2015 09:05			14 Sep 2015 20:55	1
Batch ID R261182	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS15090473-03	MW-2	09 Sep 2015 10:00			15 Sep 2015 02:33	1
HS15090473-04	MW-3	09 Sep 2015 10:30			15 Sep 2015 02:57	1
HS15090473-05	MW-4	09 Sep 2015 11:30			15 Sep 2015 03:45	1
HS15090473-06	MW-5	09 Sep 2015 11:15			15 Sep 2015 04:09	1
HS15090473-07	MW-6	09 Sep 2015 11:45			15 Sep 2015 05:22	1
HS15090473-08	MW-7	09 Sep 2015 11:45			15 Sep 2015 05:46	1
HS15090473-09	MW-8	09 Sep 2015 10:40			15 Sep 2015 06:59	1
HS15090473-10	MW-9	09 Sep 2015 11:00			15 Sep 2015 07:23	1
Batch ID R261315	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS15090473-02	MW-1	09 Sep 2015 09:05			16 Sep 2015 07:01	10
HS15090473-04	MW-3	09 Sep 2015 10:30			16 Sep 2015 07:59	10
HS15090473-05	MW-4	09 Sep 2015 11:30			16 Sep 2015 08:28	10
HS15090473-06	MW-5	09 Sep 2015 11:15			16 Sep 2015 09:12	20
HS15090473-07	MW-6	09 Sep 2015 11:45			16 Sep 2015 09:26	1
HS15090473-08	MW-7	09 Sep 2015 11:45			16 Sep 2015 09:55	20
HS15090473-09	MW-8	09 Sep 2015 10:40			16 Sep 2015 10:24	10
HS15090473-10	MW-9	09 Sep 2015 11:00			16 Sep 2015 10:54	10
Batch ID R261485	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS15090473-03	MW-2	09 Sep 2015 10:00			18 Sep 2015 21:25	10

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15090473

QC BATCH REPORT

Batch ID: R261170 **Instrument: VOA6** **Method: SW8260**

MBLK Sample ID: **VBLKW-150914** Units: **ug/L** Analysis Date: **14-Sep-2015 12:27**
Client ID: Run ID: **VOA6_261170** SeqNo: **3422206** 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	15								
Surr: 1,2-Dichloroethane-d4	*48.03*	*0*	*50*	*0*	*96.1*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*44.84*	*0*	*50*	*0*	*89.7*	*72 - 125*				
Surr: Dibromofluoromethane	*49.68*	*0*	*50*	*0*	*99.4*	*71 - 125*				
Surr: Toluene-d8	*48.36*	*0*	*50*	*0*	*96.7*	*75 - 125*				

LCS Sample ID: **VLCSW-150914** Units: **ug/L** Analysis Date: **14-Sep-2015 11:14**
Client ID: Run ID: **VOA6_261170** SeqNo: **3422205** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	50.8	5.0	50	0	102	73 - 121				
Ethylbenzene	48.19	5.0	50	0	96.4	80 - 120				
Toluene	47.22	5.0	50	0	94.4	80 - 120				
Xylenes, Total	145.4	15	150	0	96.9	80 - 120				
Surr: 1,2-Dichloroethane-d4	*50.15*	*0*	*50*	*0*	*100*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*48.13*	*0*	*50*	*0*	*96.3*	*72 - 125*				
Surr: Dibromofluoromethane	*50.1*	*0*	*50*	*0*	*100*	*71 - 125*				
Surr: Toluene-d8	*47.38*	*0*	*50*	*0*	*94.8*	*75 - 125*				

MS Sample ID: **HS15090316-05MS** Units: **ug/L** Analysis Date: **14-Sep-2015 14:28**
Client ID: Run ID: **VOA6_261170** SeqNo: **3422208** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.29	5.0	50	0	96.6	73 - 121				
Ethylbenzene	46.73	5.0	50	0	93.5	80 - 120				
Toluene	45.23	5.0	50	0	90.5	80 - 120				
Xylenes, Total	140.8	15	150	0	93.9	80 - 120				
Surr: 1,2-Dichloroethane-d4	*48.42*	*0*	*50*	*0*	*96.8*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*46.49*	*0*	*50*	*0*	*93.0*	*72 - 125*				
Surr: Dibromofluoromethane	*49.96*	*0*	*50*	*0*	*99.9*	*71 - 125*				
Surr: Toluene-d8	*46.4*	*0*	*50*	*0*	*92.8*	*75 - 125*				

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15090473

QC BATCH REPORT

Batch ID: R261170 **Instrument: VOA6** **Method: SW8260**

MSD Sample ID: **HS15090316-05MSD** Units: **ug/L** Analysis Date: **14-Sep-2015 14:52**
Client ID: Run ID: **VOA6_261170** SeqNo: **3422209** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	50.18	5.0	50	0	100	73 - 121	48.29	3.83	20	
Ethylbenzene	48.34	5.0	50	0	96.7	80 - 120	46.73	3.4	20	
Toluene	46.37	5.0	50	0	92.7	80 - 120	45.23	2.49	20	
Xylenes, Total	145.3	15	150	0	96.9	78 - 121	140.8	3.16	20	
Surr: 1,2-Dichloroethane-d4	*49.23*	*0*	*50*	*0*	*98.5*	*70 - 125*	*48.42*	*1.67*	*20*	
Surr: 4-Bromofluorobenzene	*48*	*0*	*50*	*0*	*96.0*	*72 - 125*	*46.49*	*3.2*	*20*	
Surr: Dibromofluoromethane	*51.06*	*0*	*50*	*0*	*102*	*71 - 125*	*49.96*	*2.17*	*20*	
Surr: Toluene-d8	*47.65*	*0*	*50*	*0*	*95.3*	*75 - 125*	*46.4*	*2.65*	*20*	

The following samples were anayzed in this batch: HS15090473-01 HS15090473-02

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

Released to Imaging: 9/20/2021 3:06:37 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15090473

QC BATCH REPORT

Batch ID: R261182 **Instrument: VOA6** **Method: SW8260**

MBLK Sample ID: **VBLKW-150914** Units: **ug/L** Analysis Date: **15-Sep-2015 00:08**
Client ID: Run ID: **VOA6_261182** SeqNo: **3422333** 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	15								
Surr: 1,2-Dichloroethane-d4	*50.94*	*0*	*50*	*0*	*102*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*42.69*	*0*	*50*	*0*	*85.4*	*72 - 125*				
Surr: Dibromofluoromethane	*51.14*	*0*	*50*	*0*	*102*	*71 - 125*				
Surr: Toluene-d8	*47.98*	*0*	*50*	*0*	*96.0*	*75 - 125*				

LCS Sample ID: **VLCSW-150914** Units: **ug/L** Analysis Date: **15-Sep-2015 09:25**
Client ID: Run ID: **VOA6_261182** SeqNo: **3422349** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	51.02	5.0	50	0	102	73 - 121				
Ethylbenzene	49.33	5.0	50	0	98.7	80 - 120				
Toluene	46.21	5.0	50	0	92.4	80 - 120				
Xylenes, Total	146.1	15	150	0	97.4	80 - 120				
Surr: 1,2-Dichloroethane-d4	*52.01*	*0*	*50*	*0*	*104*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*46.95*	*0*	*50*	*0*	*93.9*	*72 - 125*				
Surr: Dibromofluoromethane	*51.61*	*0*	*50*	*0*	*103*	*71 - 125*				
Surr: Toluene-d8	*46.6*	*0*	*50*	*0*	*93.2*	*75 - 125*				

MS Sample ID: **HS15090477-10MS** Units: **ug/L** Analysis Date: **15-Sep-2015 01:21**
Client ID: Run ID: **VOA6_261182** SeqNo: **3422335** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	4858	500	5000	0	97.2	73 - 121				
Ethylbenzene	4535	500	5000	0	90.7	80 - 120				
Toluene	4423	500	5000	0	88.5	80 - 120				
Xylenes, Total	13540	1500	15000	0	90.3	80 - 120				
Surr: 1,2-Dichloroethane-d4	*5108*	*0*	*5000*	*0*	*102*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*4743*	*0*	*5000*	*0*	*94.9*	*72 - 125*				
Surr: Dibromofluoromethane	*5168*	*0*	*5000*	*0*	*103*	*71 - 125*				
Surr: Toluene-d8	*4663*	*0*	*5000*	*0*	*93.3*	*75 - 125*				

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15090473

QC BATCH REPORT

Batch ID: R261182 **Instrument: VOA6** **Method: SW8260**

MSD Sample ID: **HS15090477-10MSD** Units: **ug/L** Analysis Date: **15-Sep-2015 01:45**
Client ID: Run ID: **VOA6_261182** SeqNo: **3422336** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	4759	500	5000	0	95.2	73 - 121	4858	2.05	20	
Ethylbenzene	4585	500	5000	0	91.7	80 - 120	4535	1.09	20	
Toluene	4373	500	5000	0	87.5	80 - 120	4423	1.13	20	
Xylenes, Total	13560	1500	15000	0	90.4	78 - 121	13540	0.0945	20	
Surr: 1,2-Dichloroethane-d4	*5190*	*0*	*5000*	*0*	*104*	*70 - 125*	*5108*	*1.58*	*20*	
Surr: 4-Bromofluorobenzene	*4718*	*0*	*5000*	*0*	*94.4*	*72 - 125*	*4743*	*0.534*	*20*	
Surr: Dibromofluoromethane	*5150*	*0*	*5000*	*0*	*103*	*71 - 125*	*5168*	*0.341*	*20*	
Surr: Toluene-d8	*4636*	*0*	*5000*	*0*	*92.7*	*75 - 125*	*4663*	*0.575*	*20*	

The following samples were anayzed in this batch: HS15090473-03 HS15090473-04 HS15090473-05 HS15090473-06 HS15090473-07 HS15090473-08 HS15090473-09 HS15090473-10

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15090473

QC BATCH REPORT

Batch ID: R261315 **Instrument: ICS2100** **Method: E300**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW2-091515** Units: **mg/L** Analysis Date: **16-Sep-2015 04:50**										
Client ID: Run ID: **ICS2100_261315** SeqNo: **3425109** PrepDate: DF: **1**										
Chloride	U	0.500								
LCS Sample ID: **WLCSW2-091515** Units: **mg/L** Analysis Date: **16-Sep-2015 05:04**										
Client ID: Run ID: **ICS2100_261315** SeqNo: **3425110** PrepDate: DF: **1**										
Chloride	19.62	0.500	20	0	98.1	90 - 110				
LCSD Sample ID: **WLCSDW2-091515** Units: **mg/L** Analysis Date: **16-Sep-2015 05:19**										
Client ID: Run ID: **ICS2100_261315** SeqNo: **3425111** PrepDate: DF: **1**										
Chloride	19.37	0.500	20	0	96.8	90 - 110	19.62	1.33	20	
MS Sample ID: **HS15090540-08MS** Units: **mg/L** Analysis Date: **16-Sep-2015 18:28**										
Client ID: Run ID: **ICS2100_261315** SeqNo: **3425157** PrepDate: DF: **1**										
Chloride	29.06	0.500	10	18.72	103	80 - 120				
MS Sample ID: **HS15090540-01MS** Units: **mg/L** Analysis Date: **16-Sep-2015 11:23**										
Client ID: Run ID: **ICS2100_261315** SeqNo: **3425136** PrepDate: DF: **1**										
Chloride	15.17	0.500	10	4.769	104	80 - 120				
MS Sample ID: **HS15090473-04MS** Units: **mg/L** Analysis Date: **16-Sep-2015 07:30**										
Client ID: **MW-3** Run ID: **ICS2100_261315** SeqNo: **3425120** PrepDate: DF: **1**										
Chloride	156.6	0.500	10	148.2	83.3	80 - 120				EO

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

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15090473

QC BATCH REPORT

Batch ID: R261315 **Instrument: ICS2100** **Method: E300**

MSD Sample ID: **HS15090540-08MSD** Units: **mg/L** Analysis Date: **16-Sep-2015 18:42**
Client ID: Run ID: **ICS2100_261315** SeqNo: **3425158** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	29.34	0.500	10	18.72	106	80 - 120	29.06	0.959	20	

MSD Sample ID: **HS15090540-01MSD** Units: **mg/L** Analysis Date: **16-Sep-2015 12:06**
Client ID: Run ID: **ICS2100_261315** SeqNo: **3425139** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	15.61	0.500	10	4.769	108	80 - 120	15.17	2.9	20	

MSD Sample ID: **HS15090473-04MSD** Units: **mg/L** Analysis Date: **16-Sep-2015 07:44**
Client ID: **MW-3** Run ID: **ICS2100_261315** SeqNo: **3425121** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	156.5	0.500	10	148.2	83.0	80 - 120	156.6	0.016	20	EO

The following samples were anayzed in this batch:

HS15090473-02	HS15090473-04	HS15090473-05	HS15090473-06
HS15090473-07	HS15090473-08	HS15090473-09	HS15090473-10

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15090473

QC BATCH REPORT

Batch ID: R261485 **Instrument: ICS3K2** **Method: E300**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW2-091715** Units: **mg/L** Analysis Date: **18-Sep-2015 00:48**										
Client ID: Run ID: **ICS3K2_261485** SeqNo: **3428482** PrepDate: DF: **1**										
Chloride	U	0.500								
LCS Sample ID: **WLCSW2-091715** Units: **mg/L** Analysis Date: **18-Sep-2015 01:09**										
Client ID: Run ID: **ICS3K2_261485** SeqNo: **3428483** PrepDate: DF: **1**										
Chloride	19.65	0.500	20	0	98.3	90 - 110				
LCSD Sample ID: **WLCSDW2-091715** Units: **mg/L** Analysis Date: **18-Sep-2015 02:15**										
Client ID: Run ID: **ICS3K2_261485** SeqNo: **3428486** PrepDate: DF: **1**										
Chloride	19.69	0.500	20	0	98.5	90 - 110	19.65	0.198	20	
MS Sample ID: **HS15090684-22MS** Units: **mg/L** Analysis Date: **18-Sep-2015 17:48**										
Client ID: Run ID: **ICS3K2_261485** SeqNo: **3428505** PrepDate: DF: **10**										
Chloride	122.6	5.00	100	20.84	102	80 - 120				
MS Sample ID: **HS15090684-07MS** Units: **mg/L** Analysis Date: **18-Sep-2015 13:49**										
Client ID: Run ID: **ICS3K2_261485** SeqNo: **3428494** PrepDate: DF: **10**										
Chloride	107.7	5.00	100	4.723	103	80 - 120				
MSD Sample ID: **HS15090684-22MSD** Units: **mg/L** Analysis Date: **18-Sep-2015 18:09**										
Client ID: Run ID: **ICS3K2_261485** SeqNo: **3428506** PrepDate: DF: **10**										
Chloride	123.1	5.00	100	20.84	102	80 - 120	122.6	0.384	20	

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

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ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15090473

QC BATCH REPORT

Batch ID: R261485 **Instrument: ICS3K2** **Method: E300**

MSD Sample ID: **HS15090684-07MSD** Units: **mg/L** Analysis Date: **18-Sep-2015 14:11**
Client ID: Run ID: **ICS3K2_261485** SeqNo: **3428495** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	107.8	5.00	100	4.723	103	80 - 120	107.7	0.0965	20	

The following samples were anayzed in this batch: HS15090473-03

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

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ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS15090473**

QUALIFIERS, ACRONYMS, UNITS

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

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

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

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Received by OCD: 4/13/2020 9:00:46 AM

ALS Group USA, Corp Date: 21-Sep-15

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	15-024-0	27-Mar-2016
California	2919	31-Jul-2016
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003622	09-May-2016
Kansas	E-10352 2014-2015	30-Sep-2015
Kentucky	KY 2015-2016	30-Apr-2016
Louisiana	03087 2015/2016	30-Jun-2016
North Carolina	624 - 2015	31-Dec-2015
Oklahoma	2015-047	31-Aug-2016
Texas	T104704231-15-15	30-Apr-2016

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ALS Group USA, Corp Date: 21-Sep-15

Client: Glenn Springs Holdings
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS15090473

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS15090473-01	Trip Blank-082815-03	Login	9/11/2015 1:39:46 PM	BHH	VW-3
HS15090473-02	MW-1	Login	9/11/2015 1:39:46 PM	BHH	1C
HS15090473-02	MW-1	Login	9/11/2015 1:39:46 PM	BHH	VW-3
HS15090473-03	MW-2	Login	9/11/2015 1:39:46 PM	BHH	1C
HS15090473-03	MW-2	Login	9/11/2015 1:39:46 PM	BHH	VW-3
HS15090473-04	MW-3	Login	9/11/2015 1:39:46 PM	BHH	1C
HS15090473-04	MW-3	Login	9/11/2015 1:39:46 PM	BHH	VW-3
HS15090473-05	MW-4	Login	9/11/2015 1:39:46 PM	BHH	1C
HS15090473-05	MW-4	Login	9/11/2015 1:39:46 PM	BHH	VW-3
HS15090473-06	MW-5	Login	9/11/2015 1:39:46 PM	BHH	1C
HS15090473-06	MW-5	Login	9/11/2015 1:39:46 PM	BHH	VW-3
HS15090473-07	MW-6	Login	9/11/2015 1:39:46 PM	BHH	1C
HS15090473-07	MW-6	Login	9/11/2015 1:39:46 PM	BHH	VW-3
HS15090473-08	MW-7	Login	9/11/2015 1:39:46 PM	BHH	1C
HS15090473-08	MW-7	Login	9/11/2015 1:39:46 PM	BHH	VW-3
HS15090473-09	MW-8	Login	9/11/2015 1:39:46 PM	BHH	1C
HS15090473-09	MW-8	Login	9/11/2015 1:39:46 PM	BHH	VW-3
HS15090473-10	MW-9	Login	9/11/2015 1:39:46 PM	BHH	1C
HS15090473-10	MW-9	Login	9/11/2015 1:39:46 PM	BHH	VW-3

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ALS Group USA, Corp Date: 21-Sep-15

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **11-Sep-2015 09:05**

Work Order: HS15090473 Received by: **BHH**

Checklist completed by: *Baudelio Hernandez* 11-Sep-2015
eSignature Date

Reviewed by: *Dane J. Wacasey* 15-Sep-2015
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 ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.0c / 0.9c u/c	IR#1	
Cooler(s)/Kit(s):	24486		
Date/Time sample(s) sent to storage:	09/11/2015 13:45		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:

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ALS Environmental
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Fort Collins, CO +1 970 490 1511
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Chain of Custody Form

Page 1 of 1

COC ID: 131257

HS15090473

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

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	4501709538	Project Name	GSHI PXP Hill, E.C. Federal #7 TB	A	BTEX (8260)
Work Order		Project Number	55627DM (ENV749A008)	B	Chloride by 300
Company Name	Glenn Springs Holdings	Bill To Company	Glenn Springs Holdings	C	
Send Report To	Angela Bown	Invoice Attn	Jennifer Devonshire	D	
Address	C/O CRA 9033 Merridian Way	Address	C/O CRA 2055 Niagara Falls Blvd. Suite 3	E	
City/State/Zip	West Chester,Ohio,45069	City/State/Zip	Niagara Falls, NY 14304	F	
Phone	(513) 942-4750	Phone		G	
Fax		Fax		H	
e-Mail Address		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			Water			X										
2	MW-1	9-9-15	0905	"	1+8	4	X	X									
3	MW-2	9-9-15	1000	"	1+8	4	X	X									
4	MW-3	9-9-15	1030	"	1+8	4	X	X									
5	MW-4	9-9-15	1130	"	1+8	4	X	X									
6	MW-5	9-9-15	1115	"	1+8	4	X	X									
7	MW-6	9-9-15	1145	"	1+8	4	X	X									
8	MW-7	9-9-15	1145	"	1+8	4	X	X									
9	MW-8	9-9-15	1040	"	1+8	4	X	X									
10	MW-9	9-9-15	1100	"	1+8	4	X	X									

Sampler(s) Please Print & Sign: Matthew McDaniel

Shipment Method: Fedex

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

Results Due Date:

Notes:

Relinquished by:	Date:	Time:	Received by:
	9-10-15	1415	
Relinquished by:	Date:	Time:	Received by (Laboratory): 09/11/15 0905 BH Sima
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Cooler ID	Cooler Temp.
24486	4.0
	3R #1
	C/F -0.1

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

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

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

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GSH 24486

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

CUSTODY SEAL

Date: 10-15 Time: 1510

Name: Matthew Mull

Company: Tetra Tech

Seal Broken By:

Date:

ORIGIN ID:MAFA (281) 530-5656
ALS ENVIRONMENTAL HOUSTON LAB
10450 STANCLIFF RD STE 210
HOUSTON, TX 770994338
UNITED STATES US

SHIP DATE: 10SEP15
ACTWGT: 38.9 LB
CAD: /POS1601
DIMS: 24x14x14 IN
BILL SENDER

TO CLIENT SERVICES
ALS LABORATORY GROUP
10450 STANCLIFF RD
STE 210
HOUSTON TX 77099
(281) 530-6656 REF:
INV: DEPT:
PO:

FedEx Express

4 of 4
MPS# 0681 7813 1083 2238
Mstr# 8079 4509 4835 0215

FRI - 11 SEP AA
STANDARD OVERNIGHT

AB SGRA

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

December 30, 2015

Angela Bown
Glenn Springs Holdings, Inc.

PO Box 485
Addison, TX 75001

Work Order: **HS15120865**

Laboratory Results for: **55627DM GSHI PXP Hill EC Federal 7 TB**

Dear Angela,

ALS Environmental received 10 sample(s) on Dec 19, 2015 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: Dayna.Fisher
Dane J. Wacasey

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ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Work Order: HS15120865

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS15120865-01	MW-1	Water		18-Dec-2015 10:20	19-Dec-2015 10:00	☐
HS15120865-02	MW-2	Water		18-Dec-2015 10:20	19-Dec-2015 10:00	☐
HS15120865-03	MW-3	Water		18-Dec-2015 10:30	19-Dec-2015 10:00	☐
HS15120865-04	MW-4	Water		18-Dec-2015 10:55	19-Dec-2015 10:00	☐
HS15120865-05	MW-5	Water		18-Dec-2015 10:50	19-Dec-2015 10:00	☐
HS15120865-06	MW-6	Water		18-Dec-2015 11:05	19-Dec-2015 10:00	☐
HS15120865-07	MW-7	Water		18-Dec-2015 11:05	19-Dec-2015 10:00	☐
HS15120865-08	MW-8	Water		18-Dec-2015 10:35	19-Dec-2015 10:00	☐
HS15120865-09	MW-9	Water		18-Dec-2015 10:40	19-Dec-2015 10:00	☐
HS15120865-10	Trip Blank-112015-24	Water		18-Dec-2015 00:00	19-Dec-2015 10:00	☐

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ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Work Order: HS15120865

GCMS Volatiles by Method SW8260

Batch ID: R266981

Sample ID: **HS15121077-04**
• MS and MSD are for an unrelated sample

Batch ID: R266862

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

Batch ID: R266847,R266942

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

Batch ID: R266953

Sample ID: **MW-2 (HS15120865-02)**
• The MS and/or MSD recovery was above the upper control limit.

WetChemistry by Method E300

Batch ID: R266950

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

Analyst Names and Initials:

JBA Johnnie B. Allen
PC Presenta Cabascango

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ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: MW-1
Collection Date: 18-Dec-2015 10:20

ANALYTICAL REPORT
WorkOrder:HS15120865
Lab ID:HS15120865-01
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	24-Dec-2015 09:28
Ethylbenzene		U	0.50	5.0	ug/L	1	24-Dec-2015 09:28
Toluene		U	0.50	5.0	ug/L	1	24-Dec-2015 09:28
Xylenes, Total		U	1.5	15	ug/L	1	24-Dec-2015 09:28
Surr: 1,2-Dichloroethane-d4	*110*			*70-125*	*%REC*	*1*	*24-Dec-2015 09:28*
Surr: 4-Bromofluorobenzene	*87.7*			*72-125*	*%REC*	*1*	*24-Dec-2015 09:28*
Surr: Dibromofluoromethane	*108*			*71-125*	*%REC*	*1*	*24-Dec-2015 09:28*
Surr: Toluene-d8	*93.6*			*75-125*	*%REC*	*1*	*24-Dec-2015 09:28*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**374**		**2.00**	**5.00**	**mg/L**	10	28-Dec-2015 16:16

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

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ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: MW-2
Collection Date: 18-Dec-2015 10:20

ANALYTICAL REPORT
WorkOrder:HS15120865
Lab ID:HS15120865-02
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	28-Dec-2015 12:00
Ethylbenzene		U	0.50	5.0	ug/L	1	28-Dec-2015 12:00
Toluene		U	0.50	5.0	ug/L	1	28-Dec-2015 12:00
Xylenes, Total		U	1.5	15	ug/L	1	28-Dec-2015 12:00
Surr: 1,2-Dichloroethane-d4	*86.3*			*70-125*	*%REC*	*1*	*28-Dec-2015 12:00*
Surr: 4-Bromofluorobenzene	*95.7*			*72-125*	*%REC*	*1*	*28-Dec-2015 12:00*
Surr: Dibromofluoromethane	*93.0*			*71-125*	*%REC*	*1*	*28-Dec-2015 12:00*
Surr: Toluene-d8	*83.9*			*75-125*	*%REC*	*1*	*28-Dec-2015 12:00*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**162**		**2.00**	**5.00**	**mg/L**	10	28-Dec-2015 16:31

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: MW-3
Collection Date: 18-Dec-2015 10:30

ANALYTICAL REPORT
WorkOrder:HS15120865
Lab ID:HS15120865-03
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	28-Dec-2015 19:44
Ethylbenzene		U	0.50	5.0	ug/L	1	28-Dec-2015 19:44
Toluene		U	0.50	5.0	ug/L	1	28-Dec-2015 19:44
Xylenes, Total		U	1.5	15	ug/L	1	28-Dec-2015 19:44
Surr: 1,2-Dichloroethane-d4	*86.0*			*70-125*	*%REC*	*1*	*28-Dec-2015 19:44*
Surr: 4-Bromofluorobenzene	*103*			*72-125*	*%REC*	*1*	*28-Dec-2015 19:44*
Surr: Dibromofluoromethane	*88.8*			*71-125*	*%REC*	*1*	*28-Dec-2015 19:44*
Surr: Toluene-d8	*101*			*75-125*	*%REC*	*1*	*28-Dec-2015 19:44*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**221**		**2.00**	**5.00**	**mg/L**	10	28-Dec-2015 17:14

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: MW-4
Collection Date: 18-Dec-2015 10:55

ANALYTICAL REPORT
WorkOrder:HS15120865
Lab ID:HS15120865-04
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	28-Dec-2015 20:10
Ethylbenzene		U	0.50	5.0	ug/L	1	28-Dec-2015 20:10
Toluene		U	0.50	5.0	ug/L	1	28-Dec-2015 20:10
Xylenes, Total		U	1.5	15	ug/L	1	28-Dec-2015 20:10
Surr: 1,2-Dichloroethane-d4	*86.6*			*70-125*	*%REC*	*1*	*28-Dec-2015 20:10*
Surr: 4-Bromofluorobenzene	*101*			*72-125*	*%REC*	*1*	*28-Dec-2015 20:10*
Surr: Dibromofluoromethane	*86.8*			*71-125*	*%REC*	*1*	*28-Dec-2015 20:10*
Surr: Toluene-d8	*102*			*75-125*	*%REC*	*1*	*28-Dec-2015 20:10*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**253**		**4.00**	**10.0**	**mg/L**	20	28-Dec-2015 17:29

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: MW-5
Collection Date: 18-Dec-2015 10:50

ANALYTICAL REPORT
WorkOrder:HS15120865
Lab ID:HS15120865-05
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	28-Dec-2015 20:36
Ethylbenzene		U	0.50	5.0	ug/L	1	28-Dec-2015 20:36
Toluene		U	0.50	5.0	ug/L	1	28-Dec-2015 20:36
Xylenes, Total		U	1.5	15	ug/L	1	28-Dec-2015 20:36
Surr: 1,2-Dichloroethane-d4	*86.5*			*70-125*	*%REC*	*1*	*28-Dec-2015 20:36*
Surr: 4-Bromofluorobenzene	*109*			*72-125*	*%REC*	*1*	*28-Dec-2015 20:36*
Surr: Dibromofluoromethane	*87.6*			*71-125*	*%REC*	*1*	*28-Dec-2015 20:36*
Surr: Toluene-d8	*107*			*75-125*	*%REC*	*1*	*28-Dec-2015 20:36*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**554**		**4.00**	**10.0**	**mg/L**	20	28-Dec-2015 17:44

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: MW-6
Collection Date: 18-Dec-2015 11:05

ANALYTICAL REPORT
WorkOrder:HS15120865
Lab ID:HS15120865-06
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	28-Dec-2015 21:02
Ethylbenzene		U	0.50	5.0	ug/L	1	28-Dec-2015 21:02
Toluene		U	0.50	5.0	ug/L	1	28-Dec-2015 21:02
Xylenes, Total		U	1.5	15	ug/L	1	28-Dec-2015 21:02
Surr: 1,2-Dichloroethane-d4	*90.0*			*70-125*	*%REC*	*1*	*28-Dec-2015 21:02*
Surr: 4-Bromofluorobenzene	*105*			*72-125*	*%REC*	*1*	*28-Dec-2015 21:02*
Surr: Dibromofluoromethane	*89.1*			*71-125*	*%REC*	*1*	*28-Dec-2015 21:02*
Surr: Toluene-d8	*102*			*75-125*	*%REC*	*1*	*28-Dec-2015 21:02*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**106**		**2.00**	**5.00**	**mg/L**	10	29-Dec-2015 08:41

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: MW-7
Collection Date: 18-Dec-2015 11:05

ANALYTICAL REPORT
WorkOrder:HS15120865
Lab ID:HS15120865-07
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	29-Dec-2015 21:23
Ethylbenzene		U	0.50	5.0	ug/L	1	29-Dec-2015 21:23
Toluene		U	0.50	5.0	ug/L	1	29-Dec-2015 21:23
Xylenes, Total		U	1.5	15	ug/L	1	29-Dec-2015 21:23
Surr: 1,2-Dichloroethane-d4	*88.0*			*70-125*	*%REC*	*1*	*29-Dec-2015 21:23*
Surr: 4-Bromofluorobenzene	*103*			*72-125*	*%REC*	*1*	*29-Dec-2015 21:23*
Surr: Dibromofluoromethane	*90.4*			*71-125*	*%REC*	*1*	*29-Dec-2015 21:23*
Surr: Toluene-d8	*91.6*			*75-125*	*%REC*	*1*	*29-Dec-2015 21:23*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**1,110**		**8.00**	**20.0**	**mg/L**	40	29-Dec-2015 09:16

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: MW-8
Collection Date: 18-Dec-2015 10:35

ANALYTICAL REPORT
WorkOrder:HS15120865
Lab ID:HS15120865-08
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	29-Dec-2015 21:49
Ethylbenzene		U	0.50	5.0	ug/L	1	29-Dec-2015 21:49
Toluene		U	0.50	5.0	ug/L	1	29-Dec-2015 21:49
Xylenes, Total		U	1.5	15	ug/L	1	29-Dec-2015 21:49
Surr: 1,2-Dichloroethane-d4	*90.3*			*70-125*	*%REC*	*1*	*29-Dec-2015 21:49*
Surr: 4-Bromofluorobenzene	*105*			*72-125*	*%REC*	*1*	*29-Dec-2015 21:49*
Surr: Dibromofluoromethane	*88.6*			*71-125*	*%REC*	*1*	*29-Dec-2015 21:49*
Surr: Toluene-d8	*106*			*75-125*	*%REC*	*1*	*29-Dec-2015 21:49*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**201**		**2.00**	**5.00**	**mg/L**	10	28-Dec-2015 18:56

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: MW-9
Collection Date: 18-Dec-2015 10:40

ANALYTICAL REPORT
WorkOrder:HS15120865
Lab ID:HS15120865-09
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	29-Dec-2015 22:15
Ethylbenzene		U	0.50	5.0	ug/L	1	29-Dec-2015 22:15
Toluene		U	0.50	5.0	ug/L	1	29-Dec-2015 22:15
Xylenes, Total		U	1.5	15	ug/L	1	29-Dec-2015 22:15
Surr: 1,2-Dichloroethane-d4	*90.4*			*70-125*	*%REC*	*1*	*29-Dec-2015 22:15*
Surr: 4-Bromofluorobenzene	*104*			*72-125*	*%REC*	*1*	*29-Dec-2015 22:15*
Surr: Dibromofluoromethane	*88.7*			*71-125*	*%REC*	*1*	*29-Dec-2015 22:15*
Surr: Toluene-d8	*101*			*75-125*	*%REC*	*1*	*29-Dec-2015 22:15*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**124**		**2.00**	**5.00**	**mg/L**	10	28-Dec-2015 19:11

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: Trip Blank-112015-24
Collection Date: 18-Dec-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15120865
Lab ID:HS15120865-10
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-Dec-2015 13:51
Ethylbenzene		U	0.50	5.0	ug/L	1	26-Dec-2015 13:51
Toluene		U	0.50	5.0	ug/L	1	26-Dec-2015 13:51
Xylenes, Total		U	1.5	15	ug/L	1	26-Dec-2015 13:51
Surr: 1,2-Dichloroethane-d4	*93.9*			*70-125*	*%REC*	*1*	*26-Dec-2015 13:51*
Surr: 4-Bromofluorobenzene	*95.4*			*72-125*	*%REC*	*1*	*26-Dec-2015 13:51*
Surr: Dibromofluoromethane	*97.3*			*71-125*	*%REC*	*1*	*26-Dec-2015 13:51*
Surr: Toluene-d8	*101*			*75-125*	*%REC*	*1*	*26-Dec-2015 13:51*

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15120865

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R266847	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS15120865-01	MW-1	18 Dec 2015 10:20			24 Dec 2015 09:28	1
Batch ID R266862	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS15120865-10	Trip Blank-112015-24	18 Dec 2015 00:00			26 Dec 2015 13:51	1
Batch ID R266942	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS15120865-03	MW-3	18 Dec 2015 10:30			28 Dec 2015 19:44	1
HS15120865-04	MW-4	18 Dec 2015 10:55			28 Dec 2015 20:10	1
HS15120865-05	MW-5	18 Dec 2015 10:50			28 Dec 2015 20:36	1
HS15120865-06	MW-6	18 Dec 2015 11:05			28 Dec 2015 21:02	1
Batch ID R266950	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS15120865-01	MW-1	18 Dec 2015 10:20			28 Dec 2015 16:16	10
HS15120865-02	MW-2	18 Dec 2015 10:20			28 Dec 2015 16:31	10
HS15120865-03	MW-3	18 Dec 2015 10:30			28 Dec 2015 17:14	10
HS15120865-04	MW-4	18 Dec 2015 10:55			28 Dec 2015 17:29	20
HS15120865-05	MW-5	18 Dec 2015 10:50			28 Dec 2015 17:44	20
HS15120865-06	MW-6	18 Dec 2015 11:05			29 Dec 2015 08:41	10
HS15120865-07	MW-7	18 Dec 2015 11:05			29 Dec 2015 09:16	40
HS15120865-08	MW-8	18 Dec 2015 10:35			28 Dec 2015 18:56	10
HS15120865-09	MW-9	18 Dec 2015 10:40			28 Dec 2015 19:11	10
Batch ID R266953	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS15120865-02	MW-2	18 Dec 2015 10:20			28 Dec 2015 12:00	1
Batch ID R266981	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS15120865-07	MW-7	18 Dec 2015 11:05			29 Dec 2015 21:23	1
HS15120865-08	MW-8	18 Dec 2015 10:35			29 Dec 2015 21:49	1
HS15120865-09	MW-9	18 Dec 2015 10:40			29 Dec 2015 22:15	1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15120865

QC BATCH REPORT

Batch ID: R266847 **Instrument: VOA6** **Method: SW8260**

MBLK Sample ID: **VBLKW-151223** Units: **ug/L** Analysis Date: **24-Dec-2015 00:37**
Client ID: Run ID: **VOA6_266847** SeqNo: **3535512** 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	15								
Surr: 1,2-Dichloroethane-d4	*51.72*	*0*	*50*	*0*	*103*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*43.85*	*0*	*50*	*0*	*87.7*	*72 - 125*				
Surr: Dibromofluoromethane	*54.17*	*0*	*50*	*0*	*108*	*71 - 125*				
Surr: Toluene-d8	*46.67*	*0*	*50*	*0*	*93.3*	*75 - 125*				

LCS Sample ID: **VLCSW-151223** Units: **ug/L** Analysis Date: **23-Dec-2015 23:49**
Client ID: Run ID: **VOA6_266847** SeqNo: **3535511** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	49.95	5.0	50	0	99.9	73 - 121				
Ethylbenzene	41.97	5.0	50	0	83.9	80 - 120				
Toluene	41.93	5.0	50	0	83.9	80 - 120				
Xylenes, Total	127.7	15	150	0	85.2	80 - 120				
Surr: 1,2-Dichloroethane-d4	*55.06*	*0*	*50*	*0*	*110*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*49.59*	*0*	*50*	*0*	*99.2*	*72 - 125*				
Surr: Dibromofluoromethane	*54.3*	*0*	*50*	*0*	*109*	*71 - 125*				
Surr: Toluene-d8	*44.49*	*0*	*50*	*0*	*89.0*	*75 - 125*				

MS Sample ID: **HS15120765-15MS** Units: **ug/L** Analysis Date: **24-Dec-2015 02:38**
Client ID: Run ID: **VOA6_266847** SeqNo: **3535517** PrepDate: DF: **25**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1436	120	1250	192.2	99.5	73 - 121				
Ethylbenzene	1070	120	1250	0	85.6	80 - 120				
Toluene	1070	120	1250	0	85.6	80 - 120				
Xylenes, Total	3189	380	3750	0	85.0	80 - 120				
Surr: 1,2-Dichloroethane-d4	*1365*	*0*	*1250*	*0*	*109*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*1264*	*0*	*1250*	*0*	*101*	*72 - 125*				
Surr: Dibromofluoromethane	*1355*	*0*	*1250*	*0*	*108*	*71 - 125*				
Surr: Toluene-d8	*1129*	*0*	*1250*	*0*	*90.3*	*75 - 125*				

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15120865

QC BATCH REPORT

Batch ID: R266847 **Instrument: VOA6** **Method: SW8260**

MSD Sample ID: **HS15120765-15MSD** Units: **ug/L** Analysis Date: **24-Dec-2015 03:02**
Client ID: Run ID: **VOA6_266847** SeqNo: **3535518** PrepDate: DF: **25**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1364	120	1250	192.2	93.7	73 - 121	1436	5.19	20	
Ethylbenzene	1010	120	1250	0	80.8	80 - 120	1070	5.81	20	
Toluene	1002	120	1250	0	80.2	80 - 120	1070	6.49	20	
Xylenes, Total	3049	380	3750	0	81.3	78 - 121	3189	4.48	20	
Surr: 1,2-Dichloroethane-d4	*1383*	*0*	*1250*	*0*	*111*	*70 - 125*	*1365*	*1.34*	*20*	
Surr: 4-Bromofluorobenzene	*1258*	*0*	*1250*	*0*	*101*	*72 - 125*	*1264*	*0.5*	*20*	
Surr: Dibromofluoromethane	*1358*	*0*	*1250*	*0*	*109*	*71 - 125*	*1355*	*0.245*	*20*	
Surr: Toluene-d8	*1122*	*0*	*1250*	*0*	*89.7*	*75 - 125*	*1129*	*0.632*	*20*	

The following samples were anayzed in this batch: HS15120865-01

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

Released to Imaging: 9/20/2021 3:06:37 PM
RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15120865

QC BATCH REPORT

Batch ID: R266862 **Instrument: VOA1** **Method: SW8260**

MBLK Sample ID: **VBLKW-151226** Units: **ug/L** Analysis Date: **26-Dec-2015 13:25**
Client ID: Run ID: **VOA1_266862** SeqNo: **3535850** 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	15								
Surr: 1,2-Dichloroethane-d4	*44.09*	*0*	*50*	*0*	*88.2*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*48.46*	*0*	*50*	*0*	*96.9*	*72 - 125*				
Surr: Dibromofluoromethane	*45.63*	*0*	*50*	*0*	*91.3*	*71 - 125*				
Surr: Toluene-d8	*47.7*	*0*	*50*	*0*	*95.4*	*75 - 125*				

LCS Sample ID: **VLCSW-151226** Units: **ug/L** Analysis Date: **26-Dec-2015 12:32**
Client ID: Run ID: **VOA1_266862** SeqNo: **3535849** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	41.06	5.0	50	0	82.1	73 - 121				
Ethylbenzene	46.35	5.0	50	0	92.7	80 - 120				
Toluene	47.69	5.0	50	0	95.4	80 - 120				
Xylenes, Total	136.1	15	150	0	90.7	80 - 120				
Surr: 1,2-Dichloroethane-d4	*49.31*	*0*	*50*	*0*	*98.6*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*53.08*	*0*	*50*	*0*	*106*	*72 - 125*				
Surr: Dibromofluoromethane	*46.29*	*0*	*50*	*0*	*92.6*	*71 - 125*				
Surr: Toluene-d8	*51.65*	*0*	*50*	*0*	*103*	*75 - 125*				

MS Sample ID: **HS15120831-04MS** Units: **ug/L** Analysis Date: **26-Dec-2015 15:11**
Client ID: Run ID: **VOA1_266862** SeqNo: **3535853** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	41.62	5.0	50	0	83.2	73 - 121				
Ethylbenzene	41.18	5.0	50	0	82.4	80 - 120				
Toluene	44.02	5.0	50	0	88.0	80 - 120				
Xylenes, Total	128.5	15	150	0	85.7	80 - 120				
Surr: 1,2-Dichloroethane-d4	*49.01*	*0*	*50*	*0*	*98.0*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*49.99*	*0*	*50*	*0*	*100.0*	*72 - 125*				
Surr: Dibromofluoromethane	*46.23*	*0*	*50*	*0*	*92.5*	*71 - 125*				
Surr: Toluene-d8	*49.08*	*0*	*50*	*0*	*98.2*	*75 - 125*				

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15120865

QC BATCH REPORT

Batch ID: R266862 **Instrument: VOA1** **Method: SW8260**

MSD Sample ID: **HS15120831-04MSD** Units: **ug/L** Analysis Date: **26-Dec-2015 15:37**
Client ID: Run ID: **VOA1_266862** SeqNo: **3535854** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	40.8	5.0	50	0	81.6	73 - 121	41.62	2	20	
Ethylbenzene	42.24	5.0	50	0	84.5	80 - 120	41.18	2.54	20	
Toluene	44.88	5.0	50	0	89.8	80 - 120	44.02	1.93	20	
Xylenes, Total	123.8	15	150	0	82.6	78 - 121	128.5	3.73	20	
Surr: 1,2-Dichloroethane-d4	*51.04*	*0*	*50*	*0*	*102*	*70 - 125*	*49.01*	*4.07*	*20*	
Surr: 4-Bromofluorobenzene	*49.08*	*0*	*50*	*0*	*98.2*	*72 - 125*	*49.99*	*1.83*	*20*	
Surr: Dibromofluoromethane	*48.62*	*0*	*50*	*0*	*97.2*	*71 - 125*	*46.23*	*5.05*	*20*	
Surr: Toluene-d8	*49.2*	*0*	*50*	*0*	*98.4*	*75 - 125*	*49.08*	*0.262*	*20*	

The following samples were anayzed in this batch: HS15120865-10

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

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ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15120865

QC BATCH REPORT

Batch ID: R266942 **Instrument: VOA1** **Method: SW8260**

MBLK Sample ID: **VBLKW-151228** Units: **ug/L** Analysis Date: **28-Dec-2015 11:56**
Client ID: Run ID: **VOA1_266942** SeqNo: **3537589** 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	15								
Surr: 1,2-Dichloroethane-d4	*43.78*	*0*	*50*	*0*	*87.6*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*51.06*	*0*	*50*	*0*	*102*	*72 - 125*				
Surr: Dibromofluoromethane	*44.2*	*0*	*50*	*0*	*88.4*	*71 - 125*				
Surr: Toluene-d8	*53.18*	*0*	*50*	*0*	*106*	*75 - 125*				

LCS Sample ID: **VLCSW-151228** Units: **ug/L** Analysis Date: **28-Dec-2015 11:04**
Client ID: Run ID: **VOA1_266942** SeqNo: **3537588** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	43.7	5.0	50	0	87.4	73 - 121				
Ethylbenzene	44.74	5.0	50	0	89.5	80 - 120				
Toluene	47.64	5.0	50	0	95.3	80 - 120				
Xylenes, Total	138.5	15	150	0	92.3	80 - 120				
Surr: 1,2-Dichloroethane-d4	*47.12*	*0*	*50*	*0*	*94.2*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*50.6*	*0*	*50*	*0*	*101*	*72 - 125*				
Surr: Dibromofluoromethane	*43.86*	*0*	*50*	*0*	*87.7*	*71 - 125*				
Surr: Toluene-d8	*46.83*	*0*	*50*	*0*	*93.7*	*75 - 125*				

MS Sample ID: **HS15120877-05MS** Units: **ug/L** Analysis Date: **28-Dec-2015 13:13**
Client ID: Run ID: **VOA1_266942** SeqNo: **3537592** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	39.5	5.0	50	0	79.0	73 - 121				
Ethylbenzene	43.11	5.0	50	0	86.2	80 - 120				
Toluene	50	5.0	50	0	100.0	80 - 120				
Xylenes, Total	128.8	15	150	0	85.9	80 - 120				
Surr: 1,2-Dichloroethane-d4	*44.54*	*0*	*50*	*0*	*89.1*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*50.62*	*0*	*50*	*0*	*101*	*72 - 125*				
Surr: Dibromofluoromethane	*47.04*	*0*	*50*	*0*	*94.1*	*71 - 125*				
Surr: Toluene-d8	*51.99*	*0*	*50*	*0*	*104*	*75 - 125*				

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

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ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15120865

QC BATCH REPORT

Batch ID: R266942 **Instrument: VOA1** **Method: SW8260**

MSD Sample ID: **HS15120877-05MSD** Units: **ug/L** Analysis Date: **28-Dec-2015 13:40**
Client ID: Run ID: **VOA1_266942** SeqNo: **3537593** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	42.29	5.0	50	0	84.6	73 - 121	39.5	6.82	20	
Ethylbenzene	43.46	5.0	50	0	86.9	80 - 120	43.11	0.806	20	
Toluene	50.19	5.0	50	0	100	80 - 120	50	0.393	20	
Xylenes, Total	134.8	15	150	0	89.9	78 - 121	128.8	4.55	20	
Surr: 1,2-Dichloroethane-d4	*44.49*	*0*	*50*	*0*	*89.0*	*70 - 125*	*44.54*	*0.0961*	*20*	
Surr: 4-Bromofluorobenzene	*50.1*	*0*	*50*	*0*	*100*	*72 - 125*	*50.62*	*1.02*	*20*	
Surr: Dibromofluoromethane	*44.5*	*0*	*50*	*0*	*89.0*	*71 - 125*	*47.04*	*5.54*	*20*	
Surr: Toluene-d8	*51.16*	*0*	*50*	*0*	*102*	*75 - 125*	*51.99*	*1.62*	*20*	

The following samples were anayzed in this batch: HS15120865-03 HS15120865-04 HS15120865-05 HS15120865-06

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

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ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15120865

QC BATCH REPORT

Batch ID: R266953 **Instrument: VOA6** **Method: SW8260**

MBLK Sample ID: **VBLKW-151228** Units: **ug/L** Analysis Date: **28-Dec-2015 11:36**
Client ID: Run ID: **VOA6_266953** SeqNo: **3537824** 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	15								
Surr: 1,2-Dichloroethane-d4	*45.63*	*0*	*50*	*0*	*91.3*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*49.27*	*0*	*50*	*0*	*98.5*	*72 - 125*				
Surr: Dibromofluoromethane	*48.15*	*0*	*50*	*0*	*96.3*	*71 - 125*				
Surr: Toluene-d8	*42.08*	*0*	*50*	*0*	*84.2*	*75 - 125*				

LCS Sample ID: **VLCSW-151228** Units: **ug/L** Analysis Date: **28-Dec-2015 10:23**
Client ID: Run ID: **VOA6_266953** SeqNo: **3537823** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	53.07	5.0	50	0	106	73 - 121				
Ethylbenzene	45.75	5.0	50	0	91.5	80 - 120				
Toluene	44.29	5.0	50	0	88.6	80 - 120				
Xylenes, Total	136.5	15	150	0	91.0	80 - 120				
Surr: 1,2-Dichloroethane-d4	*47.41*	*0*	*50*	*0*	*94.8*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*55.22*	*0*	*50*	*0*	*110*	*72 - 125*				
Surr: Dibromofluoromethane	*49.28*	*0*	*50*	*0*	*98.6*	*71 - 125*				
Surr: Toluene-d8	*40.22*	*0*	*50*	*0*	*80.4*	*75 - 125*				

MS Sample ID: **HS15120865-02MS** Units: **ug/L** Analysis Date: **28-Dec-2015 14:24**
Client ID: **MW-2** Run ID: **VOA6_266953** SeqNo: **3537826** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	52.61	5.0	50	0	105	73 - 121				
Ethylbenzene	42.9	5.0	50	0	85.8	80 - 120				
Toluene	42.37	5.0	50	0	84.7	80 - 120				
Xylenes, Total	127.5	15	150	0	85.0	80 - 120				
Surr: 1,2-Dichloroethane-d4	*65.42*	*0*	*50*	*0*	*131*	*70 - 125*				S
Surr: 4-Bromofluorobenzene	*46.65*	*0*	*50*	*0*	*93.3*	*72 - 125*				
Surr: Dibromofluoromethane	*62.34*	*0*	*50*	*0*	*125*	*71 - 125*				
Surr: Toluene-d8	*46.6*	*0*	*50*	*0*	*93.2*	*75 - 125*				

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

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ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15120865

QC BATCH REPORT

Batch ID: R266953 **Instrument: VOA6** **Method: SW8260**

MSD Sample ID: **HS15120865-02MSD** Units: **ug/L** Analysis Date: **28-Dec-2015 14:48**
Client ID: **MW-2** Run ID: **VOA6_266953** SeqNo: **3537827** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	52.26	5.0	50	0	105	73 - 121	52.61	0.657	20	
Ethylbenzene	44.07	5.0	50	0	88.1	80 - 120	42.9	2.68	20	
Toluene	43.73	5.0	50	0	87.5	80 - 120	42.37	3.17	20	
Xylenes, Total	133	15	150	0	88.7	78 - 121	127.5	4.2	20	
Surr: 1,2-Dichloroethane-d4	*68.15*	*0*	*50*	*0*	*136*	*70 - 125*	*65.42*	*4.08*	*20*	S
Surr: 4-Bromofluorobenzene	*48.83*	*0*	*50*	*0*	*97.7*	*72 - 125*	*46.65*	*4.56*	*20*	
Surr: Dibromofluoromethane	*64.82*	*0*	*50*	*0*	*130*	*71 - 125*	*62.34*	*3.9*	*20*	S
Surr: Toluene-d8	*48.44*	*0*	*50*	*0*	*96.9*	*75 - 125*	*46.6*	*3.87*	*20*	

The following samples were anayzed in this batch: HS15120865-02

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

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ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15120865

QC BATCH REPORT

Batch ID: R266981 **Instrument: VOA1** **Method: SW8260**

MBLK Sample ID: **VBLKW-151229** Units: **ug/L** Analysis Date: **29-Dec-2015 12:41**
Client ID: Run ID: **VOA1_266981** SeqNo: **3538613** 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	15								
Surr: 1,2-Dichloroethane-d4	*44.6*	*0*	*50*	*0*	*89.2*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*53.38*	*0*	*50*	*0*	*107*	*72 - 125*				
Surr: Dibromofluoromethane	*46.46*	*0*	*50*	*0*	*92.9*	*71 - 125*				
Surr: Toluene-d8	*52.53*	*0*	*50*	*0*	*105*	*75 - 125*				

LCS Sample ID: **VLCSW-151229** Units: **ug/L** Analysis Date: **29-Dec-2015 11:49**
Client ID: Run ID: **VOA1_266981** SeqNo: **3538612** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	43.54	5.0	50	0	87.1	73 - 121				
Ethylbenzene	47.32	5.0	50	0	94.6	80 - 120				
Toluene	51.42	5.0	50	0	103	80 - 120				
Xylenes, Total	139.7	15	150	0	93.2	80 - 120				
Surr: 1,2-Dichloroethane-d4	*46.59*	*0*	*50*	*0*	*93.2*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*52.01*	*0*	*50*	*0*	*104*	*72 - 125*				
Surr: Dibromofluoromethane	*44.64*	*0*	*50*	*0*	*89.3*	*71 - 125*				
Surr: Toluene-d8	*51.75*	*0*	*50*	*0*	*104*	*75 - 125*				

MS Sample ID: **HS15121077-04MS** Units: **ug/L** Analysis Date: **29-Dec-2015 14:52**
Client ID: Run ID: **VOA1_266981** SeqNo: **3538716** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	38.14	5.0	50	0	76.3	73 - 121				
Ethylbenzene	38.08	5.0	50	0	76.2	80 - 120				S
Toluene	44.33	5.0	50	0	88.7	80 - 120				
Xylenes, Total	111	15	150	0	74.0	80 - 120				S
Surr: 1,2-Dichloroethane-d4	*47.08*	*0*	*50*	*0*	*94.2*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*48.06*	*0*	*50*	*0*	*96.1*	*72 - 125*				
Surr: Dibromofluoromethane	*45.92*	*0*	*50*	*0*	*91.8*	*71 - 125*				
Surr: Toluene-d8	*49.9*	*0*	*50*	*0*	*99.8*	*75 - 125*				

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

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ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15120865

QC BATCH REPORT

Batch ID: R266981 **Instrument: VOA1** **Method: SW8260**

MSD Sample ID: **HS15121077-04MSD** Units: **ug/L** Analysis Date: **29-Dec-2015 15:18**
Client ID: Run ID: **VOA1_266981** SeqNo: **3538717** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	41.05	5.0	50	0	82.1	73 - 121	38.14	7.37	20	
Ethylbenzene	42.16	5.0	50	0	84.3	80 - 120	38.08	10.2	20	
Toluene	46.39	5.0	50	0	92.8	80 - 120	44.33	4.55	20	
Xylenes, Total	128.6	15	150	0	85.7	78 - 121	111	14.7	20	
Surr: 1,2-Dichloroethane-d4	*45.3*	*0*	*50*	*0*	*90.6*	*70 - 125*	*47.08*	*3.86*	*20*	
Surr: 4-Bromofluorobenzene	*50.9*	*0*	*50*	*0*	*102*	*72 - 125*	*48.06*	*5.75*	*20*	
Surr: Dibromofluoromethane	*43.01*	*0*	*50*	*0*	*86.0*	*71 - 125*	*45.92*	*6.54*	*20*	
Surr: Toluene-d8	*49.49*	*0*	*50*	*0*	*99.0*	*75 - 125*	*49.9*	*0.816*	*20*	

The following samples were anayzed in this batch: HS15120865-07 HS15120865-08 HS15120865-09

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

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ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15120865

QC BATCH REPORT

Batch ID: R266950 **Instrument: ICS2100** **Method: E300**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW1-122815** Units: **mg/L** Analysis Date: **28-Dec-2015 11:52**										
Client ID: Run ID: **ICS2100_266950** SeqNo: **3537691** PrepDate: DF: **1**										
Chloride	U	0.500								
LCS Sample ID: **WLCSW1-122815** Units: **mg/L** Analysis Date: **28-Dec-2015 12:07**										
Client ID: Run ID: **ICS2100_266950** SeqNo: **3537692** PrepDate: DF: **1**										
Chloride	20.02	0.500	20	0	100	90 - 110				
LCSD Sample ID: **WLCSDW1-122815** Units: **mg/L** Analysis Date: **28-Dec-2015 12:21**										
Client ID: Run ID: **ICS2100_266950** SeqNo: **3537693** PrepDate: DF: **1**										
Chloride	20.04	0.500	20	0	100	90 - 110	20.02	0.0849	20	
MS Sample ID: **HS15120865-02MS** Units: **mg/L** Analysis Date: **28-Dec-2015 16:45**										
Client ID: **MW-2** Run ID: **ICS2100_266950** SeqNo: **3537708** PrepDate: DF: **10**										
Chloride	265.7	5.00	100	162.3	103	80 - 120				
MS Sample ID: **HS15120855-01MS** Units: **mg/L** Analysis Date: **28-Dec-2015 13:36**										
Client ID: Run ID: **ICS2100_266950** SeqNo: **3537695** PrepDate: DF: **10**										
Chloride	381.9	5.00	100	285.9	96.0	80 - 120				
MSD Sample ID: **HS15120865-02MSD** Units: **mg/L** Analysis Date: **28-Dec-2015 17:00**										
Client ID: **MW-2** Run ID: **ICS2100_266950** SeqNo: **3537709** PrepDate: DF: **10**										
Chloride	262.5	5.00	100	162.3	100	80 - 120	265.7	1.23	20	

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

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ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15120865

QC BATCH REPORT

Batch ID: R266950 **Instrument: ICS2100** **Method: E300**

MSD Sample ID: **HS15120855-01MSD** Units: **mg/L** Analysis Date: **28-Dec-2015 13:51**
Client ID: Run ID: **ICS2100_266950** SeqNo: **3537696** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	389.5	5.00	100	285.9	104	80 - 120	381.9	1.97	20	

The following samples were anayzed in this batch: HS15120865-01, HS15120865-02, HS15120865-03, HS15120865-04, HS15120865-05, HS15120865-06, HS15120865-07, HS15120865-08, HS15120865-09

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

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ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: **HS15120865**

QUALIFIERS, ACRONYMS, UNITS

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

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

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 30-Dec-15

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	15-024-0	27-Mar-2016
California	2919	31-Jul-2016
Illinois	003622	09-May-2016
Kansas	E-10352 2014-2015	31-Jan-2016
Kentucky	KY 2015-2016	30-Apr-2016
Louisiana	03087 2015/2016	30-Jun-2016
North Carolina	624 - 2015	31-Dec-2015
North Dakota	R-193 2015-2016	30-Apr-2016
Oklahoma	2015-047	31-Aug-2016
Texas	T104704231-15-15	30-Apr-2016

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 30-Dec-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Work Order: HS15120865

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS15120865-01	MW-1	Login	12/21/2015 12:36:51 PM	BHH	19C
HS15120865-01	MW-1	Login	12/21/2015 12:36:51 PM	BHH	VW-3
HS15120865-02	MW-2	Login	12/21/2015 12:36:51 PM	BHH	19C
HS15120865-02	MW-2	Login	12/21/2015 12:36:51 PM	BHH	VW-3
HS15120865-03	MW-3	Login	12/21/2015 12:36:51 PM	BHH	19C
HS15120865-03	MW-3	Login	12/21/2015 12:36:51 PM	BHH	VW-3
HS15120865-04	MW-4	Login	12/21/2015 12:36:51 PM	BHH	19C
HS15120865-04	MW-4	Login	12/21/2015 12:36:51 PM	BHH	VW-3
HS15120865-05	MW-5	Login	12/21/2015 12:36:51 PM	BHH	19C
HS15120865-05	MW-5	Login	12/21/2015 12:36:51 PM	BHH	VW-3
HS15120865-06	MW-6	Login	12/21/2015 12:36:51 PM	BHH	19C
HS15120865-06	MW-6	Login	12/21/2015 12:36:51 PM	BHH	VW-3
HS15120865-07	MW-7	Login	12/21/2015 12:36:51 PM	BHH	19C
HS15120865-07	MW-7	Login	12/21/2015 12:36:51 PM	BHH	VW-3
HS15120865-08	MW-8	Login	12/21/2015 12:36:51 PM	BHH	19C
HS15120865-08	MW-8	Login	12/21/2015 12:36:51 PM	BHH	VW-3
HS15120865-09	MW-9	Login	12/21/2015 12:36:51 PM	BHH	19C
HS15120865-09	MW-9	Login	12/21/2015 12:36:51 PM	BHH	VW-3
HS15120865-10	Trip Blank-112015-24	Login	12/21/2015 12:36:51 PM	BHH	VW-3

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 30-Dec-15

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **19-Dec-2015 10:00**

Work Order: HS15120865 Received by: **BHH**

Checklist completed by: *Baudelio Hernandez* 21-Dec-2015
eSignature Date

Reviewed by: *Dane J. Wacasey* 23-Dec-2015
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 ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.7c / 1.9c u/c	IR#4	
Cooler(s)/Kit(s):	3900		
Date/Time sample(s) sent to storage:	12/21/2015 12:45		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:

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

Chain of Custody Fc

Page ____ of ____

COC ID: 136562

HS15120865

Glenn Springs Holdings, Inc.

55627DM GSHI PXP Hill E.C. Federal #7 TB

ston, WV
168

280

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	4501709538	Project Name	55627DM GSHI PXP Hill E.C. Federal	A	8260_W (8260 BTEX)
Work Order		Project Number		B	300_W (300 Chloride)
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc. c/o GHD	C	8260_W (8260 BTEX-Trip Blank)
Send Report To	Angela Bown	Invoice Attn	Accounts Payable	D	
Address	PO Box 485	Address	5005 LBJ Fwy. #300	E	
				F	
City/State/Zip	Addison, TX 75001	City/State/Zip	Dallas, TX 75244	G	
Phone		Phone	(972) 687-7500	H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1	12-18-15	1020	Water	1+8	4	X	X									
2	MW-2	12-18-15	1020	Water		4	X	X									
3	MW-3	12-18-15	1030	Water		4	X	X									
4	MW-4	12-18-15	1055	Water		4	X	X									
5	MW-5	12-18-15	1050	Water		4	X	X									
6	MW-6	12-18-15	1105	Water		4	X	X									
7	MW-7	12-18-15	1105	Water		4	X	X									
8	MW-8	12-18-15	1035	Water		4	X	X									
9	MW-9	12-18-15	1040	Water		4	X	X									
10	TRIP BLANK			WATER		2	~~X~~ 12/15		X								

Sampler(s) Please Print & Sign: Mallory McAnear/ MM

Shipment Method: Fed ex

Required Turnaround Time: (Check Box) TAT: 10 days Other:

Results Due Date:

Relinquished by: MM — Date: 12-18-15 — Time: 1400 — Received by: [signature] 12/19/15 1000

Relinquished by: — Date: — Time: — Received by (Laboratory): —

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

Notes: [GSHI PXP Hill EC Federal 7 TB]

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)
3900	4C 1.7° #4	QC Level STD Other:

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

C1F0.2

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

3900

CUSTODY SEAL

Date: 12-18-15 Time: 1600
Name: Mistie Mullens
Company: ALS Houston

Seal Broken By:

Date: 12/19/15

3900 DEC 19 2015

FedEx
TRK# 0221 6355 5185 5335

SATURDAY 12:00P
PRIORITY OVERNIGHT

AO SGRA 3900

77099
TX-US IAH

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

March 23, 2016

Angela Bown
Glenn Springs Holdings, Inc.

PO Box 485
Addison, TX 75001

Work Order: **HS16030903**

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

Dear Angela,

ALS Environmental received 11 sample(s) on Mar 19, 2016 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: Jumoke.Lawal
Dane J. Wacasey

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Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 23-Mar-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16030903

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS16030903-01	MW-1	Water		15-Mar-2016 10:55	19-Mar-2016 09:25	☐
HS16030903-02	MW-2	Water		15-Mar-2016 10:50	19-Mar-2016 09:25	☐
HS16030903-03	MW-3	Water		15-Mar-2016 11:20	19-Mar-2016 09:25	☐
HS16030903-04	MW-4	Water		15-Mar-2016 12:55	19-Mar-2016 09:25	☐
HS16030903-05	MW-5	Water		15-Mar-2016 12:30	19-Mar-2016 09:25	☐
HS16030903-06	MW-6	Water		15-Mar-2016 13:15	19-Mar-2016 09:25	☐
HS16030903-07	MW-7	Water		15-Mar-2016 13:30	19-Mar-2016 09:25	☐
HS16030903-08	MW-8	Water		15-Mar-2016 11:40	19-Mar-2016 09:25	☐
HS16030903-09	MW-9	Water		15-Mar-2016 12:10	19-Mar-2016 09:25	☐
HS16030903-10	Trip Blank-021116-23	Water		15-Mar-2016 00:00	19-Mar-2016 09:25	☐
HS16030903-11	Dup 1	Water		15-Mar-2016 00:00	19-Mar-2016 09:25	☐

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ALS Group USA, Corp Date: 23-Mar-16

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16030903

GCMS Volatiles by Method SW8260

Batch ID: R271210

Sample ID: **MW-1 (HS16030903-01MS)**
• The MS recovery was below the lower control limit.

WetChemistry by Method E300

Batch ID: R271182

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

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ALS Group USA, Corp Date: 23-Mar-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16030903
Sample ID: MW-1
Lab ID:HS16030903-01
Collection Date: 15-Mar-2016 10:55
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	23-Mar-2016 01:41
Ethylbenzene		U	0.50	5.0	ug/L	1	23-Mar-2016 01:41
Toluene		U	0.50	5.0	ug/L	1	23-Mar-2016 01:41
Xylenes, Total		U	1.5	15	ug/L	1	23-Mar-2016 01:41
Surr: 1,2-Dichloroethane-d4	*101*			*70-125*	*%REC*	*1*	*23-Mar-2016 01:41*
Surr: 4-Bromofluorobenzene	*108*			*72-125*	*%REC*	*1*	*23-Mar-2016 01:41*
Surr: Dibromofluoromethane	*92.6*			*71-125*	*%REC*	*1*	*23-Mar-2016 01:41*
Surr: Toluene-d8	*101*			*75-125*	*%REC*	*1*	*23-Mar-2016 01:41*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**210**		**2.00**	**5.00**	**mg/L**	10	22-Mar-2016 00:31

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

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ALS Group USA, Corp Date: 23-Mar-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16030903
Sample ID: MW-2
Lab ID:HS16030903-02
Collection Date: 15-Mar-2016 10:50
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	23-Mar-2016 03:00
Ethylbenzene		U	0.50	5.0	ug/L	1	23-Mar-2016 03:00
Toluene		U	0.50	5.0	ug/L	1	23-Mar-2016 03:00
Xylenes, Total		U	1.5	15	ug/L	1	23-Mar-2016 03:00
Surr: 1,2-Dichloroethane-d4	*101*			*70-125*	*%REC*	*1*	*23-Mar-2016 03:00*
Surr: 4-Bromofluorobenzene	*106*			*72-125*	*%REC*	*1*	*23-Mar-2016 03:00*
Surr: Dibromofluoromethane	*93.5*			*71-125*	*%REC*	*1*	*23-Mar-2016 03:00*
Surr: Toluene-d8	*99.8*			*75-125*	*%REC*	*1*	*23-Mar-2016 03:00*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**154**		**2.00**	**5.00**	**mg/L**	10	22-Mar-2016 00:52

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

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ALS Group USA, Corp Date: 23-Mar-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16030903
Sample ID: MW-3
Lab ID:HS16030903-03
Collection Date: 15-Mar-2016 11:20
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	23-Mar-2016 03:26
Ethylbenzene		U	0.50	5.0	ug/L	1	23-Mar-2016 03:26
Toluene		U	0.50	5.0	ug/L	1	23-Mar-2016 03:26
Xylenes, Total		U	1.5	15	ug/L	1	23-Mar-2016 03:26
Surr: 1,2-Dichloroethane-d4	*96.8*			*70-125*	*%REC*	*1*	*23-Mar-2016 03:26*
Surr: 4-Bromofluorobenzene	*105*			*72-125*	*%REC*	*1*	*23-Mar-2016 03:26*
Surr: Dibromofluoromethane	*88.5*			*71-125*	*%REC*	*1*	*23-Mar-2016 03:26*
Surr: Toluene-d8	*102*			*75-125*	*%REC*	*1*	*23-Mar-2016 03:26*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**225**		**2.00**	**5.00**	**mg/L**	10	22-Mar-2016 01:13

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 23-Mar-16

Client: Glenn Springs Holdings, Inc. **ANALYTICAL REPORT**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB WorkOrder:HS16030903
Sample ID: MW-4 Lab ID:HS16030903-04
Collection Date: 15-Mar-2016 12:55 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	23-Mar-2016 03:52
Ethylbenzene		U	0.50	5.0	ug/L	1	23-Mar-2016 03:52
Toluene		U	0.50	5.0	ug/L	1	23-Mar-2016 03:52
Xylenes, Total		U	1.5	15	ug/L	1	23-Mar-2016 03:52
Surr: 1,2-Dichloroethane-d4	*98.9*			*70-125*	*%REC*	*1*	*23-Mar-2016 03:52*
Surr: 4-Bromofluorobenzene	*106*			*72-125*	*%REC*	*1*	*23-Mar-2016 03:52*
Surr: Dibromofluoromethane	*93.1*			*71-125*	*%REC*	*1*	*23-Mar-2016 03:52*
Surr: Toluene-d8	*104*			*75-125*	*%REC*	*1*	*23-Mar-2016 03:52*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**295**		**4.00**	**10.0**	**mg/L**	20	22-Mar-2016 01:34

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

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ALS Group USA, Corp Date: 23-Mar-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-5
Collection Date: 15-Mar-2016 12:30

ANALYTICAL REPORT
WorkOrder:HS16030903
Lab ID:HS16030903-05
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	23-Mar-2016 04:18
Ethylbenzene		U	0.50	5.0	ug/L	1	23-Mar-2016 04:18
Toluene		U	0.50	5.0	ug/L	1	23-Mar-2016 04:18
Xylenes, Total		U	1.5	15	ug/L	1	23-Mar-2016 04:18
Surr: 1,2-Dichloroethane-d4	*99.4*			*70-125*	*%REC*	*1*	*23-Mar-2016 04:18*
Surr: 4-Bromofluorobenzene	*108*			*72-125*	*%REC*	*1*	*23-Mar-2016 04:18*
Surr: Dibromofluoromethane	*94.5*			*71-125*	*%REC*	*1*	*23-Mar-2016 04:18*
Surr: Toluene-d8	*106*			*75-125*	*%REC*	*1*	*23-Mar-2016 04:18*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**597**		**4.00**	**10.0**	**mg/L**	20	22-Mar-2016 02:38

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 23-Mar-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16030903
Sample ID: MW-6
Lab ID:HS16030903-06
Collection Date: 15-Mar-2016 13:15
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	23-Mar-2016 04:44
Ethylbenzene		U	0.50	5.0	ug/L	1	23-Mar-2016 04:44
Toluene		U	0.50	5.0	ug/L	1	23-Mar-2016 04:44
Xylenes, Total		U	1.5	15	ug/L	1	23-Mar-2016 04:44
Surr: 1,2-Dichloroethane-d4	*98.6*			*70-125*	*%REC*	*1*	*23-Mar-2016 04:44*
Surr: 4-Bromofluorobenzene	*100*			*72-125*	*%REC*	*1*	*23-Mar-2016 04:44*
Surr: Dibromofluoromethane	*93.5*			*71-125*	*%REC*	*1*	*23-Mar-2016 04:44*
Surr: Toluene-d8	*97.3*			*75-125*	*%REC*	*1*	*23-Mar-2016 04:44*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**99.9**		**2.00**	**5.00**	**mg/L**	10	22-Mar-2016 02:59

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 23-Mar-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16030903
Sample ID: MW-7
Lab ID:HS16030903-07
Collection Date: 15-Mar-2016 13:30
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	23-Mar-2016 05:10
Ethylbenzene		U	0.50	5.0	ug/L	1	23-Mar-2016 05:10
Toluene		U	0.50	5.0	ug/L	1	23-Mar-2016 05:10
Xylenes, Total		U	1.5	15	ug/L	1	23-Mar-2016 05:10
Surr: 1,2-Dichloroethane-d4	*98.9*			*70-125*	*%REC*	*1*	*23-Mar-2016 05:10*
Surr: 4-Bromofluorobenzene	*105*			*72-125*	*%REC*	*1*	*23-Mar-2016 05:10*
Surr: Dibromofluoromethane	*95.7*			*71-125*	*%REC*	*1*	*23-Mar-2016 05:10*
Surr: Toluene-d8	*98.0*			*75-125*	*%REC*	*1*	*23-Mar-2016 05:10*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**984**		**10.0**	**25.0**	**mg/L**	50	22-Mar-2016 03:20

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 23-Mar-16

Client: Glenn Springs Holdings, Inc. **ANALYTICAL REPORT**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB WorkOrder:HS16030903
Sample ID: MW-8 Lab ID:HS16030903-08
Collection Date: 15-Mar-2016 11:40 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	23-Mar-2016 05:36
Ethylbenzene		U	0.50	5.0	ug/L	1	23-Mar-2016 05:36
Toluene		U	0.50	5.0	ug/L	1	23-Mar-2016 05:36
Xylenes, Total		U	1.5	15	ug/L	1	23-Mar-2016 05:36
Surr: 1,2-Dichloroethane-d4	*101*			*70-125*	*%REC*	*1*	*23-Mar-2016 05:36*
Surr: 4-Bromofluorobenzene	*104*			*72-125*	*%REC*	*1*	*23-Mar-2016 05:36*
Surr: Dibromofluoromethane	*94.7*			*71-125*	*%REC*	*1*	*23-Mar-2016 05:36*
Surr: Toluene-d8	*102*			*75-125*	*%REC*	*1*	*23-Mar-2016 05:36*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**198**		**2.00**	**5.00**	**mg/L**	10	22-Mar-2016 03:41

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 23-Mar-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16030903
Sample ID: MW-9
Lab ID:HS16030903-09
Collection Date: 15-Mar-2016 12:10
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	23-Mar-2016 06:02
Ethylbenzene		U	0.50	5.0	ug/L	1	23-Mar-2016 06:02
Toluene		U	0.50	5.0	ug/L	1	23-Mar-2016 06:02
Xylenes, Total		U	1.5	15	ug/L	1	23-Mar-2016 06:02
Surr: 1,2-Dichloroethane-d4	*101*			*70-125*	*%REC*	*1*	*23-Mar-2016 06:02*
Surr: 4-Bromofluorobenzene	*105*			*72-125*	*%REC*	*1*	*23-Mar-2016 06:02*
Surr: Dibromofluoromethane	*94.4*			*71-125*	*%REC*	*1*	*23-Mar-2016 06:02*
Surr: Toluene-d8	*98.4*			*75-125*	*%REC*	*1*	*23-Mar-2016 06:02*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**125**		**2.00**	**5.00**	**mg/L**	10	22-Mar-2016 04:03

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 23-Mar-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: Trip Blank-021116-23
Collection Date: 15-Mar-2016 00:00

ANALYTICAL REPORT
WorkOrder:HS16030903
Lab ID:HS16030903-10
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	23-Mar-2016 01:15
Ethylbenzene	U		0.50	5.0	ug/L	1	23-Mar-2016 01:15
Toluene	U		0.50	5.0	ug/L	1	23-Mar-2016 01:15
Xylenes, Total	U		1.5	15	ug/L	1	23-Mar-2016 01:15
Surr: 1,2-Dichloroethane-d4	*99.5*			*70-125*	*%REC*	*1*	*23-Mar-2016 01:15*
Surr: 4-Bromofluorobenzene	*103*			*72-125*	*%REC*	*1*	*23-Mar-2016 01:15*
Surr: Dibromofluoromethane	*91.4*			*71-125*	*%REC*	*1*	*23-Mar-2016 01:15*
Surr: Toluene-d8	*106*			*75-125*	*%REC*	*1*	*23-Mar-2016 01:15*

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

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ALS Group USA, Corp Date: 23-Mar-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: Dup 1
Collection Date: 15-Mar-2016 00:00

ANALYTICAL REPORT
WorkOrder:HS16030903
Lab ID:HS16030903-11
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	23-Mar-2016 06:28
Ethylbenzene		U	0.50	5.0	ug/L	1	23-Mar-2016 06:28
Toluene		U	0.50	5.0	ug/L	1	23-Mar-2016 06:28
Xylenes, Total		U	1.5	15	ug/L	1	23-Mar-2016 06:28
Surr: 1,2-Dichloroethane-d4	*99.2*			*70-125*	*%REC*	*1*	*23-Mar-2016 06:28*
Surr: 4-Bromofluorobenzene	*102*			*72-125*	*%REC*	*1*	*23-Mar-2016 06:28*
Surr: Dibromofluoromethane	*93.3*			*71-125*	*%REC*	*1*	*23-Mar-2016 06:28*
Surr: Toluene-d8	*101*			*75-125*	*%REC*	*1*	*23-Mar-2016 06:28*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**917**		**10.0**	**25.0**	**mg/L**	50	22-Mar-2016 04:24

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 23-Mar-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16030903

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R271182	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS16030903-01	MW-1	15 Mar 2016 10:55			22 Mar 2016 00:31	10
HS16030903-02	MW-2	15 Mar 2016 10:50			22 Mar 2016 00:52	10
HS16030903-03	MW-3	15 Mar 2016 11:20			22 Mar 2016 01:13	10
HS16030903-04	MW-4	15 Mar 2016 12:55			22 Mar 2016 01:34	20
HS16030903-05	MW-5	15 Mar 2016 12:30			22 Mar 2016 02:38	20
HS16030903-06	MW-6	15 Mar 2016 13:15			22 Mar 2016 02:59	10
HS16030903-07	MW-7	15 Mar 2016 13:30			22 Mar 2016 03:20	50
HS16030903-08	MW-8	15 Mar 2016 11:40			22 Mar 2016 03:41	10
HS16030903-09	MW-9	15 Mar 2016 12:10			22 Mar 2016 04:03	10
HS16030903-11	Dup 1	15 Mar 2016 00:00			22 Mar 2016 04:24	50
Batch ID R271210	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS16030903-01	MW-1	15 Mar 2016 10:55			23 Mar 2016 01:41	1
HS16030903-02	MW-2	15 Mar 2016 10:50			23 Mar 2016 03:00	1
HS16030903-03	MW-3	15 Mar 2016 11:20			23 Mar 2016 03:26	1
HS16030903-04	MW-4	15 Mar 2016 12:55			23 Mar 2016 03:52	1
HS16030903-05	MW-5	15 Mar 2016 12:30			23 Mar 2016 04:18	1
HS16030903-06	MW-6	15 Mar 2016 13:15			23 Mar 2016 04:44	1
HS16030903-07	MW-7	15 Mar 2016 13:30			23 Mar 2016 05:10	1
HS16030903-08	MW-8	15 Mar 2016 11:40			23 Mar 2016 05:36	1
HS16030903-09	MW-9	15 Mar 2016 12:10			23 Mar 2016 06:02	1
HS16030903-10	Trip Blank-021116-23	15 Mar 2016 00:00			23 Mar 2016 01:15	1
HS16030903-11	Dup 1	15 Mar 2016 00:00			23 Mar 2016 06:28	1

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 23-Mar-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16030903

QC BATCH REPORT

Batch ID: R271210 **Instrument: VOA1** **Method: SW8260**

MBLK Sample ID: **VBLKW-160322** Units: **ug/L** Analysis Date: **23-Mar-2016 00:23**
Client ID: Run ID: **VOA1_271210** SeqNo: **3620931** 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	15								
Surr: 1,2-Dichloroethane-d4	*47.16*	*0*	*50*	*0*	*94.3*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*53.36*	*0*	*50*	*0*	*107*	*72 - 125*				
Surr: Dibromofluoromethane	*45.22*	*0*	*50*	*0*	*90.4*	*71 - 125*				
Surr: Toluene-d8	*51.68*	*0*	*50*	*0*	*103*	*75 - 125*				

LCS Sample ID: **VLCSW-160322** Units: **ug/L** Analysis Date: **22-Mar-2016 23:31**
Client ID: Run ID: **VOA1_271210** SeqNo: **3620930** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	45.65	5.0	50	0	91.3	73 - 121				
Ethylbenzene	44.75	5.0	50	0	89.5	80 - 120				
Toluene	44.97	5.0	50	0	89.9	80 - 120				
Xylenes, Total	138.2	15	150	0	92.1	80 - 120				
Surr: 1,2-Dichloroethane-d4	*48.63*	*0*	*50*	*0*	*97.3*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*50.45*	*0*	*50*	*0*	*101*	*72 - 125*				
Surr: Dibromofluoromethane	*47.07*	*0*	*50*	*0*	*94.1*	*71 - 125*				
Surr: Toluene-d8	*49.27*	*0*	*50*	*0*	*98.5*	*75 - 125*				

MS Sample ID: **HS16030903-01MS** Units: **ug/L** Analysis Date: **23-Mar-2016 02:07**
Client ID: **MW-1** Run ID: **VOA1_271210** SeqNo: **3620935** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	41.93	5.0	50	0	83.9	73 - 121				
Ethylbenzene	39.61	5.0	50	0	79.2	80 - 120				S
Toluene	39.76	5.0	50	0	79.5	80 - 120				S
Xylenes, Total	119.6	15	150	0	79.7	80 - 120				S
Surr: 1,2-Dichloroethane-d4	*50.12*	*0*	*50*	*0*	*100*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*47.75*	*0*	*50*	*0*	*95.5*	*72 - 125*				
Surr: Dibromofluoromethane	*47.5*	*0*	*50*	*0*	*95.0*	*71 - 125*				
Surr: Toluene-d8	*49.42*	*0*	*50*	*0*	*98.8*	*75 - 125*				

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

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 23-Mar-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16030903

QC BATCH REPORT

Batch ID: R271210 **Instrument: VOA1** **Method: SW8260**

MSD Sample ID: **HS16030903-01MSD** Units: **ug/L** Analysis Date: **23-Mar-2016 02:33**
Client ID: **MW-1** Run ID: **VOA1_271210** SeqNo: **3620936** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	44.74	5.0	50	0	89.5	73 - 121	41.93	6.48	20	
Ethylbenzene	43.98	5.0	50	0	88.0	80 - 120	39.61	10.5	20	
Toluene	46.67	5.0	50	0	93.3	80 - 120	39.76	16	20	
Xylenes, Total	140.9	15	150	0	94.0	78 - 121	119.6	16.4	20	
Surr: 1,2-Dichloroethane-d4	*50.05*	*0*	*50*	*0*	*100*	*70 - 125*	*50.12*	*0.152*	*20*	
Surr: 4-Bromofluorobenzene	*51.89*	*0*	*50*	*0*	*104*	*72 - 125*	*47.75*	*8.33*	*20*	
Surr: Dibromofluoromethane	*45.9*	*0*	*50*	*0*	*91.8*	*71 - 125*	*47.5*	*3.42*	*20*	
Surr: Toluene-d8	*51.47*	*0*	*50*	*0*	*103*	*75 - 125*	*49.42*	*4.06*	*20*	

The following samples were anayzed in this batch:

HS16030903-01	HS16030903-02	HS16030903-03	HS16030903-04
HS16030903-05	HS16030903-06	HS16030903-07	HS16030903-08
HS16030903-09	HS16030903-10	HS16030903-11	

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

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ALS Group USA, Corp Date: 23-Mar-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16030903

QC BATCH REPORT

Batch ID: R271182 **Instrument: ICS3000** **Method: E300**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW1-032116** Units: **mg/L** Analysis Date: **21-Mar-2016 14:16**										
Client ID: Run ID: **ICS3000_271182** SeqNo: **3620158** PrepDate: DF: **1**										
Chloride	U	0.500								
LCS Sample ID: **WLCSW1-032116** Units: **mg/L** Analysis Date: **21-Mar-2016 14:37**										
Client ID: Run ID: **ICS3000_271182** SeqNo: **3620159** PrepDate: DF: **1**										
Chloride	19.87	0.500	20	0	99.3	90 - 110				
LCSD Sample ID: **WLCSDW1-032116** Units: **mg/L** Analysis Date: **21-Mar-2016 14:58**										
Client ID: Run ID: **ICS3000_271182** SeqNo: **3620160** PrepDate: DF: **1**										
Chloride	19.7	0.500	20	0	98.5	90 - 110	19.87	0.849	20	
MS Sample ID: **HS16030902-01MS** Units: **mg/L** Analysis Date: **21-Mar-2016 22:45**										
Client ID: Run ID: **ICS3000_271182** SeqNo: **3620179** PrepDate: DF: **10**										
Chloride	377.7	5.00	100	283.1	94.6	80 - 120				
MS Sample ID: **HS16030742-01MS** Units: **mg/L** Analysis Date: **21-Mar-2016 15:41**										
Client ID: Run ID: **ICS3000_271182** SeqNo: **3620162** PrepDate: DF: **1**										
Chloride	17.41	0.500	10	8.064	93.5	80 - 120				
MSD Sample ID: **HS16030902-01MSD** Units: **mg/L** Analysis Date: **21-Mar-2016 23:06**										
Client ID: Run ID: **ICS3000_271182** SeqNo: **3620180** PrepDate: DF: **10**										
Chloride	380.2	5.00	100	283.1	97.2	80 - 120	377.7	0.675	20	

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

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ALS Group USA, Corp Date: 23-Mar-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16030903

QC BATCH REPORT

Batch ID: R271182 **Instrument: ICS3000** **Method: E300**

MSD Sample ID: **HS16030742-01MSD** Units: **mg/L** Analysis Date: **21-Mar-2016 16:02**
Client ID: Run ID: **ICS3000_271182** SeqNo: **3620163** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	17.36	0.500	10	8.064	93.0	80 - 120	17.41	0.293	20	

The following samples were anayzed in this batch:

HS16030903-01	HS16030903-02	HS16030903-03	HS16030903-04
HS16030903-05	HS16030903-06	HS16030903-07	HS16030903-08
HS16030903-09	HS16030903-11		

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

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ALS Group USA, Corp Date: 23-Mar-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS16030903**

QUALIFIERS, ACRONYMS, UNITS

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

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

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

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ALS Group USA, Corp Date: 23-Mar-16

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	15-024-0	27-Mar-2016
California	2919	31-Jul-2016
Illinois	003622	09-May-2016
Kentucky	KY 2015-2016	30-Apr-2016
Louisiana	03087 2015/2016	30-Jun-2016
North Carolina	624 - 2016	31-Dec-2016
North Dakota	R-193 2015-2016	30-Apr-2016
Oklahoma	2015-047	31-Aug-2016
Texas	T104704231-15-15	30-Apr-2016

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 23-Mar-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16030903

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS16030903-01	MW-1	Login	3/19/2016 12:50:36 PM	BHH	10A
HS16030903-01	MW-1	Login	3/19/2016 12:50:36 PM	BHH	VW-3
HS16030903-02	MW-2	Login	3/19/2016 12:50:36 PM	BHH	10A
HS16030903-02	MW-2	Login	3/19/2016 12:50:36 PM	BHH	VW-3
HS16030903-03	MW-3	Login	3/19/2016 12:50:36 PM	BHH	10A
HS16030903-03	MW-3	Login	3/19/2016 12:50:36 PM	BHH	VW-3
HS16030903-04	MW-4	Login	3/19/2016 12:50:36 PM	BHH	10A
HS16030903-04	MW-4	Login	3/19/2016 12:50:36 PM	BHH	VW-3
HS16030903-05	MW-5	Login	3/19/2016 12:50:36 PM	BHH	10A
HS16030903-05	MW-5	Login	3/19/2016 12:50:36 PM	BHH	VW-3
HS16030903-06	MW-6	Login	3/19/2016 12:50:36 PM	BHH	10A
HS16030903-06	MW-6	Login	3/19/2016 12:50:36 PM	BHH	VW-3
HS16030903-07	MW-7	Login	3/19/2016 12:50:36 PM	BHH	10A
HS16030903-07	MW-7	Login	3/19/2016 12:50:36 PM	BHH	VW-3
HS16030903-08	MW-8	Login	3/19/2016 12:50:36 PM	BHH	10A
HS16030903-08	MW-8	Login	3/19/2016 12:50:36 PM	BHH	VW-3
HS16030903-09	MW-9	Login	3/19/2016 12:50:36 PM	BHH	10A
HS16030903-09	MW-9	Login	3/19/2016 12:50:36 PM	BHH	VW-3
HS16030903-10	Trip Blank-021116-23	Login	3/19/2016 12:50:36 PM	BHH	VW-3
HS16030903-11	Dup 1	Login	3/19/2016 12:50:36 PM	BHH	10A
HS16030903-11	Dup 1	Login	3/19/2016 12:50:36 PM	BHH	VW-3

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ALS Group USA, Corp Date: 23-Mar-16

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **19-Mar-2016 09:25**

Work Order: HS16030903 Received by: **BHH**

Checklist completed by: *Baudelio Hernandez* eSignature 19-Mar-2016 Date

Reviewed by: *Dane J. Wacasey* eSignature 22-Mar-2016 Date

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.5c / 2.1c u/c	IR#4	
Cooler(s)/Kit(s):	5414		
Date/Time sample(s) sent to storage:	03/19/2016 13:00		
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: COC=DUP Label =Dup 1. Logged ID per Label.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:

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ALS Environmental
Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Middletown, PA +1 717 944 5541
Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

Page 1 of 2

COC ID: 138249

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	4502201559	Project Name	GSHI PXP Hill, E.C. Federal #7 TB	A	BTEX (8260)
Work Order		Project Number	55627DM (ENV749A008)	B	Chloride (300)
Company Name	Glenn Springs Holdings	Bill To Company	Glenn Springs Holdings	C	
Send Report To	Angela Bown	Invoice Attn	Jennifer Devonshire	D	
Address	C/O CRA 9033 Merridian Way	Address	C/O CRA 2055 Niagara Falls Blvd. Suite 3	E	
				F	
City/State/Zip	West Chester,Ohio,45069	City/State/Zip	Niagara Falls, NY 14304	G	
Phone	(513) 942-4750	Phone		H	
Fax		Fax		I	
e-Mail Address	abown@craworld.com	e-Mail Address	jdevonshire@craworld.com	J	

HS16030903

Glenn Springs Holdings, Inc.

55627DM GSHI PXP Hill E.C. Federal #7 TB

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1	3/15/16	1055	Water	1	4	X	X									
2	MW-2		1050	Water	1	4	X	X									
3	MW-3		1120	Water	1	4	X	X									
4	MW-4		1258	Water	1	4	X	X									
5	MW-5		1230	Water	1	4	X	X									
6	MW-6		1315	Water	1	4	X	X									
7	MW-7		1330	Water	1	4	X	X									
8	MW-8		1140	Water	1	4	X	X									
9	MW-9		1210	Water	1	4	X	X									
10	TRIP BLANK			WATER			X										

Sampler(s) Please Print & Sign: Clint Merritt

Shipment Method:

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

Results Due Date:

Relinquished by: Clint Merritt | Date: 3.18.16 | Time: ~~08:30~~ 14:15 | Received by:

Relinquished by: | Date: | Time: | Received by (Laboratory): BH Sima 03/19/16 09:25

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

Notes: 10 Day TAT

Cooler ID	Cooler Temp.
	4/C
5414	1.5

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

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

SRN 4 CLF 0.6

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

Chain of Custody Form

Page 2 of 2

COC ID: 130064

Customer Information		Project Information		ALS Project Manager:		ALS Work Order #:	
Purchase Order	~~4501708338~~ 4502201559	Project Name	GSHI PXP Hill, E.C. Federal #7 TB	Parameter/Method Request for Analysis			
Work Order		Project Number	55627DM	A	~~Chloride (300)~~ BTEX (8260)		
Company Name	Glenn Springs Holdings	Bill To Company	Glenn Springs Holdings	B	Chloride (300)		
Send Report To	Angela Bown	Invoice Attn	Jennifer Devonshire	C			
Address	C/O CRA 9033 Meridian Way	Address	C/O CRA 2055 Niagara Falls Blvd. Suite 3	D			
City/State/Zip	West Chester,Ohio,45069	City/State/Zip	Niagara Falls, NY 14304	E	HS16030903		
Phone	(513) 942-4750	Phone		F	Glenn Springs Holdings, Inc.		
Fax		Fax		G	55627DM GSHI PXP Hill E.C. Federal #7 TB		
e-Mail Address	abown@craworld.com	e-Mail Address		H			
				I			
				J			

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	DUP	3/15/16	—	Water	8°C	4	X	X									
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Clint Merritt

Shipment Method:

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

Results Due Date:

Notes: 10 Day TAT

Relinquished by:	Date:	Time:	Received by:
Clint Merritt	3.18.16	14:15	
Relinquished by:	Date:	Time:	Received by (Laboratory): BH Sima 03/19/16 09:25
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Cooler ID	Cooler Temp.
5414	4.6 1.5

QC Package: (Check One Box Below)

- [X] Level 2 Std QC
- [ ] Level 3 Std QC/Row da
- [ ] Level 4 SW846/CLP
- [ ] Other/EDD
- [ ] TRRP ChkList
- [ ] TRRP Level 4

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

IR#4 CF0.6

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
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ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

5414

CUSTODY SEAL

Date: 3.18.16 Time: ~~08:30~~ 14:15
Name: Clint Merritt
Company: Intra Tech

Seal Broken By: GM
Date: 03/19/16

5414 MAR 19 2016

FedEx
TRK# 0221 6355 5187 2419

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO SGRA

5414

77099
TX-US IAH

#2025927 03/18 540J1/CF34/727F

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

July 13, 2016

Angela Bown
Glenn Springs Holdings, Inc.

PO Box 2148
Houston, TX 77252-2148

Work Order: **HS16070053**

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

Dear Angela,

ALS Environmental received 11 sample(s) on Jul 01, 2016 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: Jumoke.Lawal
Dane J. Wacasey

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
Work Order: HS16070053

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS16070053-01	MW-1	Water		29-Jun-2016 10:45	01-Jul-2016 08:50	☐
HS16070053-02	MW-2	Water		29-Jun-2016 10:30	01-Jul-2016 08:50	☐
HS16070053-03	MW-3	Water		29-Jun-2016 10:55	01-Jul-2016 08:50	☐
HS16070053-04	MW-4	Water		29-Jun-2016 12:25	01-Jul-2016 08:50	☐
HS16070053-05	MW-5	Water		29-Jun-2016 12:00	01-Jul-2016 08:50	☐
HS16070053-06	MW-6	Water		29-Jun-2016 13:55	01-Jul-2016 08:50	☐
HS16070053-07	MW-7	Water		29-Jun-2016 13:40	01-Jul-2016 08:50	☐
HS16070053-08	MW-8	Water		29-Jun-2016 11:25	01-Jul-2016 08:50	☐
HS16070053-09	MW-9	Water		29-Jun-2016 11:35	01-Jul-2016 08:50	☐
HS16070053-10	Trip Blank	Water	051716-41	29-Jun-2016 00:00	01-Jul-2016 08:50	☐
HS16070053-11	DUP	Water		29-Jun-2016 00:00	01-Jul-2016 08:50	☐

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
Work Order: HS16070053

GCMS Volatiles by Method SW8260

Batch ID: R277623,R277631

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

Batch ID: R277576

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

Batch ID: R277480

Sample ID: **HS16070111-01MS**
- MS/MSD is for an unrelated sample

WetChemistry by Method E300

Batch ID: R277916,R277926

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

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
WorkOrder:HS16070053
Sample ID: MW-1
Lab ID:HS16070053-01
Collection Date: 29-Jun-2016 10:45
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	05-Jul-2016 18:19
Ethylbenzene		U	0.50	5.0	ug/L	1	05-Jul-2016 18:19
Toluene		U	0.50	5.0	ug/L	1	05-Jul-2016 18:19
Xylenes, Total		U	1.5	15	ug/L	1	05-Jul-2016 18:19
Surr: 1,2-Dichloroethane-d4	*107*			*70-125*	*%REC*	*1*	*05-Jul-2016 18:19*
Surr: 4-Bromofluorobenzene	*99.8*			*72-125*	*%REC*	*1*	*05-Jul-2016 18:19*
Surr: Dibromofluoromethane	*106*			*71-125*	*%REC*	*1*	*05-Jul-2016 18:19*
Surr: Toluene-d8	*96.9*			*75-125*	*%REC*	*1*	*05-Jul-2016 18:19*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**172**		**2.00**	**5.00**	**mg/L**	10	12-Jul-2016 12:08

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

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
WorkOrder:HS16070053
Sample ID: MW-2
Lab ID:HS16070053-02
Collection Date: 29-Jun-2016 10:30
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	05-Jul-2016 18:46
Ethylbenzene		U	0.50	5.0	ug/L	1	05-Jul-2016 18:46
Toluene		U	0.50	5.0	ug/L	1	05-Jul-2016 18:46
Xylenes, Total		U	1.5	15	ug/L	1	05-Jul-2016 18:46
Surr: 1,2-Dichloroethane-d4	*102*			*70-125*	*%REC*	*1*	*05-Jul-2016 18:46*
Surr: 4-Bromofluorobenzene	*98.9*			*72-125*	*%REC*	*1*	*05-Jul-2016 18:46*
Surr: Dibromofluoromethane	*104*			*71-125*	*%REC*	*1*	*05-Jul-2016 18:46*
Surr: Toluene-d8	*97.9*			*75-125*	*%REC*	*1*	*05-Jul-2016 18:46*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**152**		**2.00**	**5.00**	**mg/L**	10	12-Jul-2016 12:22

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

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
WorkOrder:HS16070053
Sample ID: MW-3
Lab ID:HS16070053-03
Collection Date: 29-Jun-2016 10:55
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	05-Jul-2016 19:12
Ethylbenzene		U	0.50	5.0	ug/L	1	05-Jul-2016 19:12
Toluene		U	0.50	5.0	ug/L	1	05-Jul-2016 19:12
Xylenes, Total		U	1.5	15	ug/L	1	05-Jul-2016 19:12
Surr: 1,2-Dichloroethane-d4	*98.5*			*70-125*	*%REC*	*1*	*05-Jul-2016 19:12*
Surr: 4-Bromofluorobenzene	*94.7*			*72-125*	*%REC*	*1*	*05-Jul-2016 19:12*
Surr: Dibromofluoromethane	*98.7*			*71-125*	*%REC*	*1*	*05-Jul-2016 19:12*
Surr: Toluene-d8	*94.2*			*75-125*	*%REC*	*1*	*05-Jul-2016 19:12*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**208**		**2.00**	**5.00**	**mg/L**	10	12-Jul-2016 12:37

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

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc. **ANALYTICAL REPORT**
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB WorkOrder:HS16070053
Sample ID: MW-4 Lab ID:HS16070053-04
Collection Date: 29-Jun-2016 12:25 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	06-Jul-2016 12:49
Ethylbenzene		U	0.50	5.0	ug/L	1	06-Jul-2016 12:49
Toluene		U	0.50	5.0	ug/L	1	06-Jul-2016 12:49
Xylenes, Total		U	1.5	15	ug/L	1	06-Jul-2016 12:49
Surr: 1,2-Dichloroethane-d4	*94.4*			*70-125*	*%REC*	*1*	*06-Jul-2016 12:49*
Surr: 4-Bromofluorobenzene	*97.5*			*72-125*	*%REC*	*1*	*06-Jul-2016 12:49*
Surr: Dibromofluoromethane	*99.8*			*71-125*	*%REC*	*1*	*06-Jul-2016 12:49*
Surr: Toluene-d8	*95.9*			*75-125*	*%REC*	*1*	*06-Jul-2016 12:49*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**229**		**2.00**	**5.00**	**mg/L**	10	12-Jul-2016 12:51

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

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
WorkOrder:HS16070053
Sample ID: MW-5
Lab ID:HS16070053-05
Collection Date: 29-Jun-2016 12:00
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	06-Jul-2016 13:42
Ethylbenzene		U	0.50	5.0	ug/L	1	06-Jul-2016 13:42
Toluene		U	0.50	5.0	ug/L	1	06-Jul-2016 13:42
Xylenes, Total		U	1.5	15	ug/L	1	06-Jul-2016 13:42
Surr: 1,2-Dichloroethane-d4	*91.8*			*70-125*	*%REC*	*1*	*06-Jul-2016 13:42*
Surr: 4-Bromofluorobenzene	*107*			*72-125*	*%REC*	*1*	*06-Jul-2016 13:42*
Surr: Dibromofluoromethane	*99.5*			*71-125*	*%REC*	*1*	*06-Jul-2016 13:42*
Surr: Toluene-d8	*104*			*75-125*	*%REC*	*1*	*06-Jul-2016 13:42*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**569**		**4.00**	**10.0**	**mg/L**	20	12-Jul-2016 13:06

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

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
WorkOrder:HS16070053
Sample ID: MW-6
Lab ID:HS16070053-06
Collection Date: 29-Jun-2016 13:55
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	07-Jul-2016 02:31
Ethylbenzene		U	0.50	5.0	ug/L	1	07-Jul-2016 02:31
Toluene		U	0.50	5.0	ug/L	1	07-Jul-2016 02:31
Xylenes, Total		U	1.5	15	ug/L	1	07-Jul-2016 02:31
Surr: 1,2-Dichloroethane-d4	*94.9*			*70-125*	*%REC*	*1*	*07-Jul-2016 02:31*
Surr: 4-Bromofluorobenzene	*98.0*			*72-125*	*%REC*	*1*	*07-Jul-2016 02:31*
Surr: Dibromofluoromethane	*97.4*			*71-125*	*%REC*	*1*	*07-Jul-2016 02:31*
Surr: Toluene-d8	*96.0*			*75-125*	*%REC*	*1*	*07-Jul-2016 02:31*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**95.4**		**1.00**	**2.50**	**mg/L**	5	12-Jul-2016 13:20

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

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
Sample ID: MW-7
Collection Date: 29-Jun-2016 13:40

ANALYTICAL REPORT
WorkOrder:HS16070053
Lab ID:HS16070053-07
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	07-Jul-2016 02:57
Ethylbenzene		U	0.50	5.0	ug/L	1	07-Jul-2016 02:57
Toluene		U	0.50	5.0	ug/L	1	07-Jul-2016 02:57
Xylenes, Total		U	1.5	15	ug/L	1	07-Jul-2016 02:57
Surr: 1,2-Dichloroethane-d4	*98.2*			*70-125*	*%REC*	*1*	*07-Jul-2016 02:57*
Surr: 4-Bromofluorobenzene	*101*			*72-125*	*%REC*	*1*	*07-Jul-2016 02:57*
Surr: Dibromofluoromethane	*103*			*71-125*	*%REC*	*1*	*07-Jul-2016 02:57*
Surr: Toluene-d8	*94.3*			*75-125*	*%REC*	*1*	*07-Jul-2016 02:57*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**768**		**10.0**	**25.0**	**mg/L**	50	12-Jul-2016 13:35

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

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc. **ANALYTICAL REPORT**
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB WorkOrder:HS16070053
Sample ID: MW-8 Lab ID:HS16070053-08
Collection Date: 29-Jun-2016 11:25 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	07-Jul-2016 03:23
Ethylbenzene		U	0.50	5.0	ug/L	1	07-Jul-2016 03:23
Toluene		U	0.50	5.0	ug/L	1	07-Jul-2016 03:23
Xylenes, Total		U	1.5	15	ug/L	1	07-Jul-2016 03:23
Surr: 1,2-Dichloroethane-d4	*90.0*			*70-125*	*%REC*	*1*	*07-Jul-2016 03:23*
Surr: 4-Bromofluorobenzene	*104*			*72-125*	*%REC*	*1*	*07-Jul-2016 03:23*
Surr: Dibromofluoromethane	*94.4*			*71-125*	*%REC*	*1*	*07-Jul-2016 03:23*
Surr: Toluene-d8	*104*			*75-125*	*%REC*	*1*	*07-Jul-2016 03:23*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**165**		**2.00**	**5.00**	**mg/L**	10	12-Jul-2016 15:02

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

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
Sample ID: MW-9
Collection Date: 29-Jun-2016 11:35

ANALYTICAL REPORT
WorkOrder:HS16070053
Lab ID:HS16070053-09
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	07-Jul-2016 06:59
Ethylbenzene		U	0.50	5.0	ug/L	1	07-Jul-2016 06:59
Toluene		U	0.50	5.0	ug/L	1	07-Jul-2016 06:59
Xylenes, Total		U	1.5	15	ug/L	1	07-Jul-2016 06:59
Surr: 1,2-Dichloroethane-d4	*93.6*			*70-125*	*%REC*	*1*	*07-Jul-2016 06:59*
Surr: 4-Bromofluorobenzene	*105*			*72-125*	*%REC*	*1*	*07-Jul-2016 06:59*
Surr: Dibromofluoromethane	*95.2*			*71-125*	*%REC*	*1*	*07-Jul-2016 06:59*
Surr: Toluene-d8	*103*			*75-125*	*%REC*	*1*	*07-Jul-2016 06:59*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**123**		**2.00**	**5.00**	**mg/L**	10	12-Jul-2016 15:46

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
WorkOrder:HS16070053
Sample ID: Trip Blank
Lab ID:HS16070053-10
Collection Date: 29-Jun-2016 00:00
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	06-Jul-2016 12:48
Ethylbenzene		U	0.50	5.0	ug/L	1	06-Jul-2016 12:48
Toluene		U	0.50	5.0	ug/L	1	06-Jul-2016 12:48
Xylenes, Total		U	1.5	15	ug/L	1	06-Jul-2016 12:48
Surr: 1,2-Dichloroethane-d4	*89.5*			*70-125*	*%REC*	*1*	*06-Jul-2016 12:48*
Surr: 4-Bromofluorobenzene	*93.6*			*72-125*	*%REC*	*1*	*06-Jul-2016 12:48*
Surr: Dibromofluoromethane	*97.6*			*71-125*	*%REC*	*1*	*06-Jul-2016 12:48*
Surr: Toluene-d8	*94.5*			*75-125*	*%REC*	*1*	*06-Jul-2016 12:48*

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

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
Sample ID: DUP
Collection Date: 29-Jun-2016 00:00

ANALYTICAL REPORT
WorkOrder:HS16070053
Lab ID:HS16070053-11
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	07-Jul-2016 07:25
Ethylbenzene		U	0.50	5.0	ug/L	1	07-Jul-2016 07:25
Toluene		U	0.50	5.0	ug/L	1	07-Jul-2016 07:25
Xylenes, Total		U	1.5	15	ug/L	1	07-Jul-2016 07:25
Surr: 1,2-Dichloroethane-d4	*97.0*			*70-125*	*%REC*	*1*	*07-Jul-2016 07:25*
Surr: 4-Bromofluorobenzene	*97.0*			*72-125*	*%REC*	*1*	*07-Jul-2016 07:25*
Surr: Dibromofluoromethane	*97.7*			*71-125*	*%REC*	*1*	*07-Jul-2016 07:25*
Surr: Toluene-d8	*96.7*			*75-125*	*%REC*	*1*	*07-Jul-2016 07:25*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**811**		**10.0**	**25.0**	**mg/L**	50	12-Jul-2016 16:00

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

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
WorkOrder: HS16070053

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R277480	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS16070053-01	MW-1	29 Jun 2016 10:45			05 Jul 2016 18:19	1
HS16070053-02	MW-2	29 Jun 2016 10:30			05 Jul 2016 18:46	1
HS16070053-03	MW-3	29 Jun 2016 10:55			05 Jul 2016 19:12	1
Batch ID R277576	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS16070053-04	MW-4	29 Jun 2016 12:25			06 Jul 2016 12:49	1
HS16070053-05	MW-5	29 Jun 2016 12:00			06 Jul 2016 13:42	1
Batch ID R277623	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS16070053-06	MW-6	29 Jun 2016 13:55			07 Jul 2016 02:31	1
HS16070053-07	MW-7	29 Jun 2016 13:40			07 Jul 2016 02:57	1
HS16070053-08	MW-8	29 Jun 2016 11:25			07 Jul 2016 03:23	1
HS16070053-09	MW-9	29 Jun 2016 11:35			07 Jul 2016 06:59	1
HS16070053-11	DUP	29 Jun 2016 00:00			07 Jul 2016 07:25	1
Batch ID R277631	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS16070053-10	Trip Blank	29 Jun 2016 00:00			06 Jul 2016 12:48	1
Batch ID R277916	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS16070053-01	MW-1	29 Jun 2016 10:45			12 Jul 2016 12:08	10
HS16070053-02	MW-2	29 Jun 2016 10:30			12 Jul 2016 12:22	10
HS16070053-03	MW-3	29 Jun 2016 10:55			12 Jul 2016 12:37	10
HS16070053-04	MW-4	29 Jun 2016 12:25			12 Jul 2016 12:51	10
HS16070053-05	MW-5	29 Jun 2016 12:00			12 Jul 2016 13:06	20
HS16070053-06	MW-6	29 Jun 2016 13:55			12 Jul 2016 13:20	5
HS16070053-07	MW-7	29 Jun 2016 13:40			12 Jul 2016 13:35	50
Batch ID R277926	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS16070053-08	MW-8	29 Jun 2016 11:25			12 Jul 2016 15:02	10
HS16070053-09	MW-9	29 Jun 2016 11:35			12 Jul 2016 15:46	10
HS16070053-11	DUP	29 Jun 2016 00:00			12 Jul 2016 16:00	50

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
WorkOrder: HS16070053

QC BATCH REPORT

Batch ID: R277480 **Instrument: VOA1** **Method: SW8260**

MBLK Sample ID: **VBLKW-160703** Units: **ug/L** Analysis Date: **05-Jul-2016 12:09**
Client ID: Run ID: **VOA1_277480** SeqNo: **3748370** 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	15								
Surr: 1,2-Dichloroethane-d4	*52.5*	*0*	*50*	*0*	*105*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*50.78*	*0*	*50*	*0*	*102*	*72 - 125*				
Surr: Dibromofluoromethane	*53.71*	*0*	*50*	*0*	*107*	*71 - 125*				
Surr: Toluene-d8	*48.96*	*0*	*50*	*0*	*97.9*	*75 - 125*				

LCS Sample ID: **VLCSW-160705** Units: **ug/L** Analysis Date: **05-Jul-2016 10:49**
Client ID: Run ID: **VOA1_277480** SeqNo: **3748369** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.83	5.0	50	0	97.7	73 - 121				
Ethylbenzene	47.86	5.0	50	0	95.7	80 - 120				
Toluene	49.24	5.0	50	0	98.5	80 - 120				
Xylenes, Total	151.6	15	150	0	101	80 - 120				
Surr: 1,2-Dichloroethane-d4	*50.41*	*0*	*50*	*0*	*101*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*52.16*	*0*	*50*	*0*	*104*	*72 - 125*				
Surr: Dibromofluoromethane	*47.23*	*0*	*50*	*0*	*94.5*	*71 - 125*				
Surr: Toluene-d8	*50.1*	*0*	*50*	*0*	*100*	*75 - 125*				

MS Sample ID: **HS16070111-01MS** Units: **ug/L** Analysis Date: **05-Jul-2016 14:21**
Client ID: Run ID: **VOA1_277480** SeqNo: **3748555** PrepDate: DF: **25**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1092	120	1250	0	87.3	73 - 121				
Ethylbenzene	946.1	120	1250	0	75.7	80 - 120				S
Toluene	1106	120	1250	0	88.4	80 - 120				
Xylenes, Total	3237	380	3750	0	86.3	80 - 120				
Surr: 1,2-Dichloroethane-d4	*1361*	*0*	*1250*	*0*	*109*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*1240*	*0*	*1250*	*0*	*99.2*	*72 - 125*				
Surr: Dibromofluoromethane	*1352*	*0*	*1250*	*0*	*108*	*71 - 125*				
Surr: Toluene-d8	*1208*	*0*	*1250*	*0*	*96.6*	*75 - 125*				

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

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
WorkOrder: HS16070053

QC BATCH REPORT

Batch ID: R277480 **Instrument: VOA1** **Method: SW8260**

MSD Sample ID: **HS16070111-01MSD** Units: **ug/L** Analysis Date: **05-Jul-2016 14:47**
Client ID: Run ID: **VOA1_277480** SeqNo: **3748556** PrepDate: DF: **25**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	1063	120	1250	0	85.0	73 - 121	1092	2.68	20	
Ethylbenzene	1025	120	1250	0	82.0	80 - 120	946.1	8.04	20	
Toluene	1067	120	1250	0	85.4	80 - 120	1106	3.54	20	
Xylenes, Total	3232	380	3750	0	86.2	78 - 121	3237	0.158	20	
Surr: 1,2-Dichloroethane-d4	*1287*	*0*	*1250*	*0*	*103*	*70 - 125*	*1361*	*5.57*	*20*	
Surr: 4-Bromofluorobenzene	*1222*	*0*	*1250*	*0*	*97.8*	*72 - 125*	*1240*	*1.49*	*20*	
Surr: Dibromofluoromethane	*1335*	*0*	*1250*	*0*	*107*	*71 - 125*	*1352*	*1.28*	*20*	
Surr: Toluene-d8	*1205*	*0*	*1250*	*0*	*96.4*	*75 - 125*	*1208*	*0.197*	*20*	

The following samples were analyzed in this batch: HS16070053-01 HS16070053-02 HS16070053-03

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

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
WorkOrder: HS16070053

QC BATCH REPORT

Batch ID: R277576 **Instrument: VOA1** **Method: SW8260**

MBLK Sample ID: **VBLKW-160706** Units: **ug/L** Analysis Date: **06-Jul-2016 12:23**
Client ID: Run ID: **VOA1_277576** SeqNo: **3750086** 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	15								
Surr: 1,2-Dichloroethane-d4	*45.77*	*0*	*50*	*0*	*91.5*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*48.3*	*0*	*50*	*0*	*96.6*	*72 - 125*				
Surr: Dibromofluoromethane	*48.71*	*0*	*50*	*0*	*97.4*	*71 - 125*				
Surr: Toluene-d8	*52.22*	*0*	*50*	*0*	*104*	*75 - 125*				

LCS Sample ID: **VLCSW-160706** Units: **ug/L** Analysis Date: **06-Jul-2016 11:04**
Client ID: Run ID: **VOA1_277576** SeqNo: **3750085** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.37	5.0	50	0	96.7	73 - 121				
Ethylbenzene	46.27	5.0	50	0	92.5	80 - 120				
Toluene	45.4	5.0	50	0	90.8	80 - 120				
Xylenes, Total	147.2	15	150	0	98.1	80 - 120				
Surr: 1,2-Dichloroethane-d4	*47.27*	*0*	*50*	*0*	*94.5*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*49.95*	*0*	*50*	*0*	*99.9*	*72 - 125*				
Surr: Dibromofluoromethane	*48.76*	*0*	*50*	*0*	*97.5*	*71 - 125*				
Surr: Toluene-d8	*47.4*	*0*	*50*	*0*	*94.8*	*75 - 125*				

MS Sample ID: **HS16070053-04MS** Units: **ug/L** Analysis Date: **06-Jul-2016 15:56**
Client ID: Run ID: **VOA1_277576** SeqNo: **3751201** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	44.15	5.0	50	6.001	76.3	73 - 121				
Ethylbenzene	43.96	5.0	50	0	87.9	80 - 120				
Toluene	45.85	5.0	50	0	91.7	80 - 120				
Xylenes, Total	131.9	15	150	0	87.9	80 - 120				
Surr: 1,2-Dichloroethane-d4	*52.64*	*0*	*50*	*0*	*105*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*50.5*	*0*	*50*	*0*	*101*	*72 - 125*				
Surr: Dibromofluoromethane	*53.26*	*0*	*50*	*0*	*107*	*71 - 125*				
Surr: Toluene-d8	*48.15*	*0*	*50*	*0*	*96.3*	*75 - 125*				

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

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
WorkOrder: HS16070053

QC BATCH REPORT

Batch ID: R277576 **Instrument: VOA1** **Method: SW8260**

MSD Sample ID: **HS16070053-04MSD** Units: **ug/L** Analysis Date: **06-Jul-2016 16:23**
Client ID: Run ID: **VOA1_277576** SeqNo: **3751202** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	47.8	5.0	50	6.001	83.6	73 - 121	44.15	7.94	20	
Ethylbenzene	41.77	5.0	50	0	83.5	80 - 120	43.96	5.1	20	
Toluene	41.89	5.0	50	0	83.8	80 - 120	45.85	9.03	20	
Xylenes, Total	128.1	15	150	0	85.4	78 - 121	131.9	2.93	20	
Surr: 1,2-Dichloroethane-d4	*46.95*	*0*	*50*	*0*	*93.9*	*70 - 125*	*52.64*	*11.4*	*20*	
Surr: 4-Bromofluorobenzene	*49.27*	*0*	*50*	*0*	*98.5*	*72 - 125*	*50.5*	*2.47*	*20*	
Surr: Dibromofluoromethane	*50.79*	*0*	*50*	*0*	*102*	*71 - 125*	*53.26*	*4.75*	*20*	
Surr: Toluene-d8	*50.08*	*0*	*50*	*0*	*100*	*75 - 125*	*48.15*	*3.92*	*20*	

The following samples were analyzed in this batch: HS16070053-04 HS16070053-05

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

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
WorkOrder: HS16070053

QC BATCH REPORT

Batch ID: R277623 **Instrument: VOA1** **Method: SW8260**

MBLK Sample ID: **VBLKW-160706** Units: **ug/L** Analysis Date: **07-Jul-2016 00:45**
Client ID: Run ID: **VOA1_277623** SeqNo: **3751284** 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	15								
Surr: 1,2-Dichloroethane-d4	*47.85*	*0*	*50*	*0*	*95.7*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*46.47*	*0*	*50*	*0*	*92.9*	*72 - 125*				
Surr: Dibromofluoromethane	*51.75*	*0*	*50*	*0*	*104*	*71 - 125*				
Surr: Toluene-d8	*48.11*	*0*	*50*	*0*	*96.2*	*75 - 125*				

LCS Sample ID: **VLCSW-160706** Units: **ug/L** Analysis Date: **06-Jul-2016 23:26**
Client ID: Run ID: **VOA1_277623** SeqNo: **3751283** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	46.77	5.0	50	0	93.5	73 - 121				
Ethylbenzene	46.76	5.0	50	0	93.5	80 - 120				
Toluene	48.48	5.0	50	0	97.0	80 - 120				
Xylenes, Total	140.3	15	150	0	93.5	80 - 120				
Surr: 1,2-Dichloroethane-d4	*48.52*	*0*	*50*	*0*	*97.0*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*50.72*	*0*	*50*	*0*	*101*	*72 - 125*				
Surr: Dibromofluoromethane	*50.32*	*0*	*50*	*0*	*101*	*71 - 125*				
Surr: Toluene-d8	*50.22*	*0*	*50*	*0*	*100*	*75 - 125*				

MS Sample ID: **HS16070127-05MS** Units: **ug/L** Analysis Date: **07-Jul-2016 01:38**
Client ID: Run ID: **VOA1_277623** SeqNo: **3751286** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	44.58	5.0	50	0	89.2	73 - 121				
Ethylbenzene	43.7	5.0	50	0	87.4	80 - 120				
Toluene	40.71	5.0	50	0	81.4	80 - 120				
Xylenes, Total	130.5	15	150	0	87.0	80 - 120				
Surr: 1,2-Dichloroethane-d4	*45.84*	*0*	*50*	*0*	*91.7*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*51.41*	*0*	*50*	*0*	*103*	*72 - 125*				
Surr: Dibromofluoromethane	*49.6*	*0*	*50*	*0*	*99.2*	*71 - 125*				
Surr: Toluene-d8	*49.11*	*0*	*50*	*0*	*98.2*	*75 - 125*				

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

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
WorkOrder: HS16070053

QC BATCH REPORT

Batch ID: R277623 **Instrument: VOA1** **Method: SW8260**

MSD Sample ID: **HS16070127-05MSD** Units: **ug/L** Analysis Date: **07-Jul-2016 02:04**
Client ID: Run ID: **VOA1_277623** SeqNo: **3751287** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	39.58	5.0	50	0	79.2	73 - 121	44.58	11.9	20	
Ethylbenzene	40.61	5.0	50	0	81.2	80 - 120	43.7	7.33	20	
Toluene	42.44	5.0	50	0	84.9	80 - 120	40.71	4.15	20	
Xylenes, Total	123.4	15	150	0	82.3	78 - 121	130.5	5.56	20	
Surr: 1,2-Dichloroethane-d4	*47.78*	*0*	*50*	*0*	*95.6*	*70 - 125*	*45.84*	*4.14*	*20*	
Surr: 4-Bromofluorobenzene	*47.41*	*0*	*50*	*0*	*94.8*	*72 - 125*	*51.41*	*8.09*	*20*	
Surr: Dibromofluoromethane	*48.44*	*0*	*50*	*0*	*96.9*	*71 - 125*	*49.6*	*2.36*	*20*	
Surr: Toluene-d8	*48.85*	*0*	*50*	*0*	*97.7*	*75 - 125*	*49.11*	*0.537*	*20*	

The following samples were analyzed in this batch: HS16070053-06 HS16070053-07 HS16070053-08 HS16070053-09 HS16070053-11

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

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
WorkOrder: HS16070053

QC BATCH REPORT

Batch ID: R277631 **Instrument: VOA6** **Method: SW8260**

MBLK Sample ID: **VBLKW-160706** Units: **ug/L** Analysis Date: **06-Jul-2016 11:36**
Client ID: Run ID: **VOA6_277631** SeqNo: **3751375** 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	15								
Surr: 1,2-Dichloroethane-d4	*45.62*	*0*	*50*	*0*	*91.2*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*48.33*	*0*	*50*	*0*	*96.7*	*72 - 125*				
Surr: Dibromofluoromethane	*49.77*	*0*	*50*	*0*	*99.5*	*71 - 125*				
Surr: Toluene-d8	*48.93*	*0*	*50*	*0*	*97.9*	*75 - 125*				

LCS Sample ID: **VLCSW-160706** Units: **ug/L** Analysis Date: **06-Jul-2016 10:24**
Client ID: Run ID: **VOA6_277631** SeqNo: **3751374** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	51.4	5.0	50	0	103	73 - 121				
Ethylbenzene	47.79	5.0	50	0	95.6	80 - 120				
Toluene	47.44	5.0	50	0	94.9	80 - 120				
Xylenes, Total	144.3	15	150	0	96.2	80 - 120				
Surr: 1,2-Dichloroethane-d4	*44.5*	*0*	*50*	*0*	*89.0*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*48.62*	*0*	*50*	*0*	*97.2*	*72 - 125*				
Surr: Dibromofluoromethane	*48.9*	*0*	*50*	*0*	*97.8*	*71 - 125*				
Surr: Toluene-d8	*48.26*	*0*	*50*	*0*	*96.5*	*75 - 125*				

MS Sample ID: **HS16070094-21MS** Units: **ug/L** Analysis Date: **06-Jul-2016 13:59**
Client ID: Run ID: **VOA6_277631** SeqNo: **3751378** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	226.9	25	250	0	90.8	73 - 121				
Ethylbenzene	208.6	25	250	0	83.4	80 - 120				
Toluene	208.5	25	250	0	83.4	80 - 120				
Xylenes, Total	633.6	75	750	0	84.5	80 - 120				
Surr: 1,2-Dichloroethane-d4	*220.8*	*0*	*250*	*0*	*88.3*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*246*	*0*	*250*	*0*	*98.4*	*72 - 125*				
Surr: Dibromofluoromethane	*246.8*	*0*	*250*	*0*	*98.7*	*71 - 125*				
Surr: Toluene-d8	*240.7*	*0*	*250*	*0*	*96.3*	*75 - 125*				

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
WorkOrder: HS16070053

QC BATCH REPORT

Batch ID: R277631 **Instrument: VOA6** **Method: SW8260**

MSD Sample ID: **HS16070094-21MSD** Units: **ug/L** Analysis Date: **06-Jul-2016 14:23**
Client ID: Run ID: **VOA6_277631** SeqNo: **3751379** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	232.7	25	250	0	93.1	73 - 121	226.9	2.51	20	
Ethylbenzene	219	25	250	0	87.6	80 - 120	208.6	4.85	20	
Toluene	215.7	25	250	0	86.3	80 - 120	208.5	3.36	20	
Xylenes, Total	652.6	75	750	0	87.0	78 - 121	633.6	2.96	20	
Surr: 1,2-Dichloroethane-d4	*220.9*	*0*	*250*	*0*	*88.4*	*70 - 125*	*220.8*	*0.0466*	*20*	
Surr: 4-Bromofluorobenzene	*244.5*	*0*	*250*	*0*	*97.8*	*72 - 125*	*246*	*0.591*	*20*	
Surr: Dibromofluoromethane	*245.2*	*0*	*250*	*0*	*98.1*	*71 - 125*	*246.8*	*0.672*	*20*	
Surr: Toluene-d8	*242.3*	*0*	*250*	*0*	*96.9*	*75 - 125*	*240.7*	*0.687*	*20*	

The following samples were analyzed in this batch: HS16070053-10

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

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
WorkOrder: HS16070053

QC BATCH REPORT

Batch ID: R277916 **Instrument: ICS2100** **Method: E300**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW1-071213** Units: **mg/L** Analysis Date: **12-Jul-2016 06:18**										
Client ID: Run ID: **ICS2100_277916** SeqNo: **3757201** PrepDate: DF: **1**										
Chloride	U	0.500								
LCS Sample ID: **WLCSW1-071213** Units: **mg/L** Analysis Date: **12-Jul-2016 06:33**										
Client ID: Run ID: **ICS2100_277916** SeqNo: **3757203** PrepDate: DF: **1**										
Chloride	19.54	0.500	20	0	97.7	90 - 110				
LCSD Sample ID: **WLCSDW1-071213** Units: **mg/L** Analysis Date: **12-Jul-2016 06:48**										
Client ID: Run ID: **ICS2100_277916** SeqNo: **3757204** PrepDate: DF: **1**										
Chloride	19.79	0.500	20	0	99.0	90 - 110	19.54	1.27	20	
MS Sample ID: **HS16070050-01MS** Units: **mg/L** Analysis Date: **12-Jul-2016 09:13**										
Client ID: Run ID: **ICS2100_277916** SeqNo: **3757217** PrepDate: DF: **5**										
Chloride	130	2.50	50	85.2	89.6	80 - 120				
MS Sample ID: **HS16070049-01MS** Units: **mg/L** Analysis Date: **12-Jul-2016 07:17**										
Client ID: Run ID: **ICS2100_277916** SeqNo: **3757208** PrepDate: DF: **400**										
Chloride	12970	200	4000	9272	92.5	80 - 120				
MSD Sample ID: **HS16070050-01MSD** Units: **mg/L** Analysis Date: **12-Jul-2016 09:28**										
Client ID: Run ID: **ICS2100_277916** SeqNo: **3757218** PrepDate: DF: **5**										
Chloride	130.7	2.50	50	85.2	90.9	80 - 120	130	0.495	20	

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

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
WorkOrder: HS16070053

QC BATCH REPORT

Batch ID: R277916 **Instrument: ICS2100** **Method: E300**

MSD Sample ID: **HS16070049-01MSD** Units: **mg/L** Analysis Date: **12-Jul-2016 07:31**
Client ID: Run ID: **ICS2100_277916** SeqNo: **3757209** PrepDate: DF: **400**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	13160	200	4000	9272	97.3	80 - 120	12970	1.48	20	

The following samples were analyzed in this batch: HS16070053-01 HS16070053-02 HS16070053-03 HS16070053-04 HS16070053-05 HS16070053-06 HS16070053-07

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

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
WorkOrder: HS16070053

QC BATCH REPORT

Batch ID: R277926 **Instrument: ICS2100** **Method: E300**

MBLK Sample ID: **WBLKW2-071216** Units: **mg/L** Analysis Date: **12-Jul-2016 13:49**
Client ID: Run ID: **ICS2100_277926** SeqNo: **3757473** 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: **WLCSW2-071216** Units: **mg/L** Analysis Date: **12-Jul-2016 14:04**
Client ID: Run ID: **ICS2100_277926** SeqNo: **3757474** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.53	0.500	20	0	97.6	90 - 110				

LCSD Sample ID: **WLCSDW2-071216** Units: **mg/L** Analysis Date: **12-Jul-2016 14:19**
Client ID: Run ID: **ICS2100_277926** SeqNo: **3757475** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.2	0.500	20	0	101	90 - 110	19.53	3.4	20	

MS Sample ID: **HS16070053-08MS** Units: **mg/L** Analysis Date: **12-Jul-2016 15:17**
Client ID: **MW-8** Run ID: **ICS2100_277926** SeqNo: **3757479** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	258	5.00	100	164.6	93.4	80 - 120				

MSD Sample ID: **HS16070053-08MSD** Units: **mg/L** Analysis Date: **12-Jul-2016 15:31**
Client ID: **MW-8** Run ID: **ICS2100_277926** SeqNo: **3757480** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	268.4	5.00	100	164.6	104	80 - 120	258	3.96	20	

The following samples were analyzed in this batch: HS16070053-08 HS16070053-09 HS16070053-11

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

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
WorkOrder: **HS16070053**

QUALIFIERS, ACRONYMS, UNITS

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

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

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

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ALS Group USA, Corp Date: 13-Jul-16

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	16-022-0	27-Mar-2017
California	2919	31-Jul-2016
Illinois	003872	09-May-2017
Kansas	E-10352 2014-2015	31-Jul-2016
Kentucky	96 2016-2017	30-Apr-2017
Louisiana	03087 2016/2017	30-Jun-2017
North Carolina	624 - 2016	31-Dec-2016
North Dakota	R193 2016-2017	30-Apr-2017
Oklahoma	2015-047	31-Aug-2016
Texas	TX104704231-16-17	30-Apr-2017

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ALS Group USA, Corp Date: 13-Jul-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal 7 TB
Work Order: HS16070053

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS16070053-01	MW-1	Login	7/1/2016 4:18:51 PM	CGG	14A
HS16070053-01	MW-1	Login	7/1/2016 4:18:51 PM	CGG	VW-3
HS16070053-02	MW-2	Login	7/1/2016 4:18:51 PM	CGG	14A
HS16070053-02	MW-2	Login	7/1/2016 4:18:51 PM	CGG	VW-3
HS16070053-03	MW-3	Login	7/1/2016 4:18:51 PM	CGG	14A
HS16070053-03	MW-3	Login	7/1/2016 4:18:51 PM	CGG	VW-3
HS16070053-04	MW-4	Login	7/1/2016 4:18:51 PM	CGG	14A
HS16070053-04	MW-4	Login	7/1/2016 4:18:51 PM	CGG	VW-3
HS16070053-05	MW-5	Login	7/1/2016 4:18:51 PM	CGG	14A
HS16070053-05	MW-5	Login	7/1/2016 4:18:51 PM	CGG	VW-3
HS16070053-06	MW-6	Login	7/1/2016 4:18:51 PM	CGG	14A
HS16070053-06	MW-6	Login	7/1/2016 4:18:51 PM	CGG	VW-3
HS16070053-07	MW-7	Login	7/1/2016 4:18:51 PM	CGG	14A
HS16070053-07	MW-7	Login	7/1/2016 4:18:51 PM	CGG	VW-3
HS16070053-08	MW-8	Login	7/1/2016 4:18:51 PM	CGG	14A
HS16070053-08	MW-8	Login	7/1/2016 4:18:51 PM	CGG	VW-3
HS16070053-09	MW-9	Login	7/1/2016 4:18:52 PM	CGG	14A
HS16070053-09	MW-9	Login	7/1/2016 4:18:52 PM	CGG	VW-3
HS16070053-10	Trip Blank	Login	7/1/2016 4:18:52 PM	CGG	VW-3
HS16070053-11	DUP	Login	7/1/2016 4:18:52 PM	CGG	14A
HS16070053-11	DUP	Login	7/1/2016 4:18:52 PM	CGG	VW-3

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ALS Group USA, Corp Date: 13-Jul-16

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **01-Jul-2016 08:50**

Work Order: HS16070053 Received by: **JRM**

Checklist completed by: *Corey Grandits* 1-Jul-2016
eSignature Date

Reviewed by: *Dane J. Wacasey* 5-Jul-2016
eSignature Date

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☐	No ☑	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.0c/1.6c uc/c	IR#5	
Cooler(s)/Kit(s):	Lg Teal		
Date/Time sample(s) sent to storage:	07/01/2016 16:23		
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: Sample MW-3 1 vial received broken in cooler. Sufficient volume remains for analysis.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

Chain of Custody Form

Page 1 of 2

COC ID: 142021

HS16070053

Glenn Springs Holdings, Inc.

55627DM GSHI PXP Hill E.C. Federal #7 TB

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	4502201559 ENV749-40	Project Name	55627DM GSHI PXP Hill E.C. Federal	A	8260_W (8260 BTEX)
Work Order		Project Number		B	300_W (300 Chloride)
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc. c/o GHD	C	8260_W (8260 BTEX-Trip Blank)
Send Report To	Angela Bown	Invoice Attn	Accounts Payable	D	
Address	PO Box 2148	Address	5005 LBJ Fwy. #300	E	
City/State/Zip	Houston, TX 77252-2148	City/State/Zip	Dallas, TX 75244	F	
Phone		Phone	(972) 687-7500	G	
Fax		Fax		H	
e-Mail Address		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	6.29.16	10:45	Water	1, 8	4	X	X									
2	MW-2	6.29.16	10:30	Water		4	X	X									
3	MW-3	6.29.16	10:55	Water		4	X	X									
4	MW-4	6.29.16	12:25	Water		4	X	X									
5	MW-5	6.29.16	12:00	Water		4	X	X									
6	MW-6	6.29.16	13:55	Water		4	X	X									
7	MW-7	6.29.16	13:40	Water		4	X	X									
8	MW-8	6.29.16	11:25	Water		4	X	X									
9	MW-9	6.29.16	11:35	Water		4	X	X									
10	Trip Blank			Water		2		X									

Sampler(s) Please Print & Sign: Clint Merritt

Shipment Method: FedEx

Required Turnaround Time: (Check Box) TAT 10 days Other:

Results Due Date:

Relinquished by: Clint Merritt	Date: 6.30.16	Time: 17:04	Received by:	Notes: [GSHI PXP Hill EC Federal 7 TB]	
Relinquished by:	Date:	Time:	Received by (Laboratory): JM 7-1-16 0850	Cooler ID / Cooler Temp.	QC Package: (Check One Box Below)
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	LA TEAL / UIC 1.0 IRS	QC Level STD Other:

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

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

Page 2 of 2

COC ID: 130064

HS16070053

Glenn Springs Holdings, Inc.

55627DM GSHI PXP Hill E.C. Federal #7 TB

WV

Customer Information		Project Information		ALS Project Manager:
Purchase Order	~~4501709598~~ 4502201559	Project Name	GSHI PXP Hill, E.C. Federal #7 TB	
Work Order		Project Number	55627DM	
Company Name	Glenn Springs Holdings	Bill To Company	Glenn Springs Holdings	
Send Report To	Angela Bown	Invoice Attn	Jennifer Devonshire	
Address	C/O CRA 9033 Merridian Way	Address	C/O CRA 2055 Niagara Falls Blvd. Suite 3	
City/State/Zip	West Chester,Ohio,45069	City/State/Zip	Niagara Falls, NY 14304	
Phone	(513) 942-4750	Phone		
Fax		Fax		
e-Mail Address	abown@craworld.com	e-Mail Address		

Parameter/Method Request for Analysis

A	~~Chloride (300)~~ 8260_W(8260 BTEX)
B	300_W (300 Chloride)
C	
D	
E	
F	
G	
H	
I	
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Dup	6.29.16	—	Water	1,8	4	X	X									
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Clint Merritt

Shipment Method: FedEX

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

Results Due Date:

Notes: 10 Day TAT

	Date	Time	
Relinquished by: Clint Merritt	6.30.16	17:04	Received by:
Relinquished by:	Date:	Time:	Received by (Laboratory): JM 7-1-16 0850
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Cooler ID	Cooler Temp.
LL TEAL	UK
IBS	1.0

QC Package: (Check One Box Below)

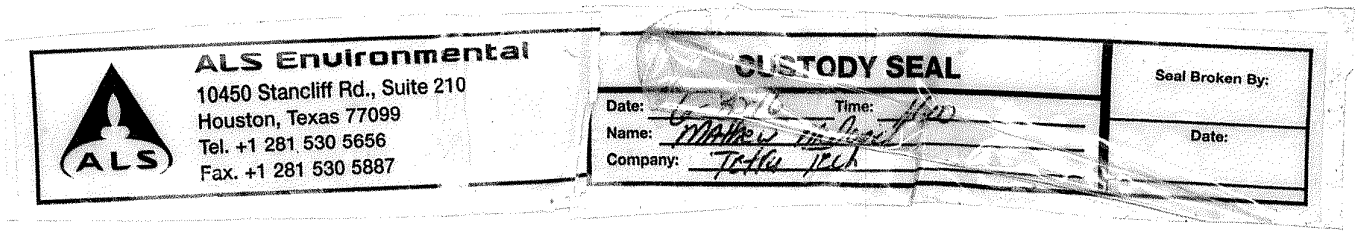
☒ Level 2 Std QC ☐ TRRP ChkList
☐ Level 3 Std QC/Row da ☐ TRRP Level 4
☐ Level 4 SW846/CLP
☐ Other/EDD

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

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

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

CUSTODY SEAL
Date: Time:
Name:
Company:

Seal Broken By:
Date:

ORIGIN ID:SGRA (432) 682-4559
TODD WELLS
GSHI-TETRA TECH
4000 NORTH BIG SPRING STREET
STE 401
MIDLAND, TX 79705
UNITED STATES US

ACTWGT: 35.0 LB MAN
CAD: 300130/CAFE2916
DIMS: 19x16x13 IN

BILL SENDER

TO SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF
SUITE 210
HOUSTON TX 77099
(281) 530-5656
REF: GSHI PXP HILL EC 'B' ATB @ WELL #24

FedEx Express

FedEx
TRK# 0221 6355 5189 5236

FRI - 01 JUL 10:30A
PRIORITY OVERNIGHT

AB SGRA

77099
TX-US IAH

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

September 19, 2016

Angela Bown
Glenn Springs Holdings, Inc.

PO Box 2148
Houston, TX 77252-2148

Work Order: **HS16090544**

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

Dear Angela,

ALS Environmental received 11 sample(s) on Sep 13, 2016 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: Dayna.Fisher
Dane J. Wacasey

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Sep-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16090544

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS16090544-01	MW-1	Water		08-Sep-2016 10:40	13-Sep-2016 08:45	☐
HS16090544-02	MW-2	Water		08-Sep-2016 10:25	13-Sep-2016 08:45	☐
HS16090544-03	MW-3	Water		08-Sep-2016 11:40	13-Sep-2016 08:45	☐
HS16090544-04	MW-4	Water		08-Sep-2016 12:55	13-Sep-2016 08:45	☐
HS16090544-05	MW-5	Water		08-Sep-2016 12:40	13-Sep-2016 08:45	☐
HS16090544-06	MW-6	Water		08-Sep-2016 13:30	13-Sep-2016 08:45	☐
HS16090544-07	MW-7	Water		08-Sep-2016 13:15	13-Sep-2016 08:45	☐
HS16090544-08	MW-8	Water		08-Sep-2016 11:55	13-Sep-2016 08:45	☐
HS16090544-09	MW-9	Water		08-Sep-2016 12:20	13-Sep-2016 08:45	☐
HS16090544-10	Trip Blank	Water	082416-86	08-Sep-2016 00:00	13-Sep-2016 08:45	☐
HS16090544-11	Dup	Water		08-Sep-2016 00:00	13-Sep-2016 08:45	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Sep-16

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16090544

GCMS Volatiles by Method SW8260

Batch ID: R281305

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

WetChemistry by Method E300

Batch ID: R281527

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Sep-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16090544
Sample ID: MW-1
Lab ID:HS16090544-01
Collection Date: 08-Sep-2016 10:40
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	14-Sep-2016 01:23
Ethylbenzene	U		0.50	5.0	ug/L	1	14-Sep-2016 01:23
Toluene	U		0.50	5.0	ug/L	1	14-Sep-2016 01:23
Xylenes, Total	U		1.5	15	ug/L	1	14-Sep-2016 01:23
Surr: 1,2-Dichloroethane-d4	*106*			*70-125*	*%REC*	*1*	*14-Sep-2016 01:23*
Surr: 4-Bromofluorobenzene	*104*			*72-125*	*%REC*	*1*	*14-Sep-2016 01:23*
Surr: Dibromofluoromethane	*103*			*71-125*	*%REC*	*1*	*14-Sep-2016 01:23*
Surr: Toluene-d8	*104*			*75-125*	*%REC*	*1*	*14-Sep-2016 01:23*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**198**		**2.00**	**5.00**	**mg/L**	10	16-Sep-2016 17:12

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Sep-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16090544
Sample ID: MW-2
Lab ID:HS16090544-02
Collection Date: 08-Sep-2016 10:25
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	14-Sep-2016 03:08
Ethylbenzene	U		0.50	5.0	ug/L	1	14-Sep-2016 03:08
Toluene	U		0.50	5.0	ug/L	1	14-Sep-2016 03:08
Xylenes, Total	U		1.5	15	ug/L	1	14-Sep-2016 03:08
Surr: 1,2-Dichloroethane-d4	*102*			*70-125*	*%REC*	*1*	*14-Sep-2016 03:08*
Surr: 4-Bromofluorobenzene	*105*			*72-125*	*%REC*	*1*	*14-Sep-2016 03:08*
Surr: Dibromofluoromethane	*104*			*71-125*	*%REC*	*1*	*14-Sep-2016 03:08*
Surr: Toluene-d8	*102*			*75-125*	*%REC*	*1*	*14-Sep-2016 03:08*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**154**		**2.00**	**5.00**	**mg/L**	10	16-Sep-2016 17:27

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Sep-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16090544
Sample ID: MW-3
Lab ID:HS16090544-03
Collection Date: 08-Sep-2016 11:40
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	14-Sep-2016 03:34
Ethylbenzene		U	0.50	5.0	ug/L	1	14-Sep-2016 03:34
Toluene		U	0.50	5.0	ug/L	1	14-Sep-2016 03:34
Xylenes, Total		U	1.5	15	ug/L	1	14-Sep-2016 03:34
Surr: 1,2-Dichloroethane-d4	*100*			*70-125*	*%REC*	*1*	*14-Sep-2016 03:34*
Surr: 4-Bromofluorobenzene	*104*			*72-125*	*%REC*	*1*	*14-Sep-2016 03:34*
Surr: Dibromofluoromethane	*105*			*71-125*	*%REC*	*1*	*14-Sep-2016 03:34*
Surr: Toluene-d8	*99.0*			*75-125*	*%REC*	*1*	*14-Sep-2016 03:34*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**216**		**2.00**	**5.00**	**mg/L**	10	16-Sep-2016 17:41

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

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ALS Group USA, Corp Date: 19-Sep-16

Client: Glenn Springs Holdings, Inc. **ANALYTICAL REPORT**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB WorkOrder:HS16090544
Sample ID: MW-4 Lab ID:HS16090544-04
Collection Date: 08-Sep-2016 12:55 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	14-Sep-2016 04:01
Ethylbenzene		U	0.50	5.0	ug/L	1	14-Sep-2016 04:01
Toluene		U	0.50	5.0	ug/L	1	14-Sep-2016 04:01
Xylenes, Total		U	1.5	15	ug/L	1	14-Sep-2016 04:01
Surr: 1,2-Dichloroethane-d4	*98.8*			*70-125*	*%REC*	*1*	*14-Sep-2016 04:01*
Surr: 4-Bromofluorobenzene	*101*			*72-125*	*%REC*	*1*	*14-Sep-2016 04:01*
Surr: Dibromofluoromethane	*104*			*71-125*	*%REC*	*1*	*14-Sep-2016 04:01*
Surr: Toluene-d8	*101*			*75-125*	*%REC*	*1*	*14-Sep-2016 04:01*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**208**		**2.00**	**5.00**	**mg/L**	10	16-Sep-2016 18:25

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

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ALS Group USA, Corp Date: 19-Sep-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16090544
Sample ID: MW-5
Lab ID:HS16090544-05
Collection Date: 08-Sep-2016 12:40
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	14-Sep-2016 04:27
Ethylbenzene		U	0.50	5.0	ug/L	1	14-Sep-2016 04:27
Toluene		U	0.50	5.0	ug/L	1	14-Sep-2016 04:27
Xylenes, Total		U	1.5	15	ug/L	1	14-Sep-2016 04:27
Surr: 1,2-Dichloroethane-d4	*97.5*			*70-125*	*%REC*	*1*	*14-Sep-2016 04:27*
Surr: 4-Bromofluorobenzene	*101*			*72-125*	*%REC*	*1*	*14-Sep-2016 04:27*
Surr: Dibromofluoromethane	*106*			*71-125*	*%REC*	*1*	*14-Sep-2016 04:27*
Surr: Toluene-d8	*101*			*75-125*	*%REC*	*1*	*14-Sep-2016 04:27*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**591**		**4.00**	**10.0**	**mg/L**	20	16-Sep-2016 19:09

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

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ALS Group USA, Corp Date: 19-Sep-16

Client: Glenn Springs Holdings, Inc. **ANALYTICAL REPORT**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB WorkOrder:HS16090544
Sample ID: MW-6 Lab ID:HS16090544-06
Collection Date: 08-Sep-2016 13:30 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	14-Sep-2016 04:53
Ethylbenzene		U	0.50	5.0	ug/L	1	14-Sep-2016 04:53
Toluene		U	0.50	5.0	ug/L	1	14-Sep-2016 04:53
Xylenes, Total		U	1.5	15	ug/L	1	14-Sep-2016 04:53
Surr: 1,2-Dichloroethane-d4	*99.8*			*70-125*	*%REC*	*1*	*14-Sep-2016 04:53*
Surr: 4-Bromofluorobenzene	*102*			*72-125*	*%REC*	*1*	*14-Sep-2016 04:53*
Surr: Dibromofluoromethane	*101*			*71-125*	*%REC*	*1*	*14-Sep-2016 04:53*
Surr: Toluene-d8	*102*			*75-125*	*%REC*	*1*	*14-Sep-2016 04:53*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**94.2**		**1.00**	**2.50**	**mg/L**	5	16-Sep-2016 19:23

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

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ALS Group USA, Corp Date: 19-Sep-16

Client: Glenn Springs Holdings, Inc. **ANALYTICAL REPORT**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB WorkOrder:HS16090544
Sample ID: MW-7 Lab ID:HS16090544-07
Collection Date: 08-Sep-2016 13:15 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	14-Sep-2016 05:19
Ethylbenzene		U	0.50	5.0	ug/L	1	14-Sep-2016 05:19
Toluene		U	0.50	5.0	ug/L	1	14-Sep-2016 05:19
Xylenes, Total		U	1.5	15	ug/L	1	14-Sep-2016 05:19
Surr: 1,2-Dichloroethane-d4	*105*			*70-125*	*%REC*	*1*	*14-Sep-2016 05:19*
Surr: 4-Bromofluorobenzene	*99.6*			*72-125*	*%REC*	*1*	*14-Sep-2016 05:19*
Surr: Dibromofluoromethane	*106*			*71-125*	*%REC*	*1*	*14-Sep-2016 05:19*
Surr: Toluene-d8	*101*			*75-125*	*%REC*	*1*	*14-Sep-2016 05:19*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**874**		**10.0**	**25.0**	**mg/L**	50	16-Sep-2016 19:38

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Sep-16

Client: Glenn Springs Holdings, Inc. **ANALYTICAL REPORT**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB WorkOrder:HS16090544
Sample ID: MW-8 Lab ID:HS16090544-08
Collection Date: 08-Sep-2016 11:55 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	14-Sep-2016 05:45
Ethylbenzene		U	0.50	5.0	ug/L	1	14-Sep-2016 05:45
Toluene		U	0.50	5.0	ug/L	1	14-Sep-2016 05:45
Xylenes, Total		U	1.5	15	ug/L	1	14-Sep-2016 05:45
Surr: 1,2-Dichloroethane-d4	*99.4*			*70-125*	*%REC*	*1*	*14-Sep-2016 05:45*
Surr: 4-Bromofluorobenzene	*101*			*72-125*	*%REC*	*1*	*14-Sep-2016 05:45*
Surr: Dibromofluoromethane	*102*			*71-125*	*%REC*	*1*	*14-Sep-2016 05:45*
Surr: Toluene-d8	*95.5*			*75-125*	*%REC*	*1*	*14-Sep-2016 05:45*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**170**		**2.00**	**5.00**	**mg/L**	10	16-Sep-2016 19:52

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Sep-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16090544
Sample ID: MW-9
Lab ID:HS16090544-09
Collection Date: 08-Sep-2016 12:20
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	14-Sep-2016 06:11
Ethylbenzene		U	0.50	5.0	ug/L	1	14-Sep-2016 06:11
Toluene		U	0.50	5.0	ug/L	1	14-Sep-2016 06:11
Xylenes, Total		U	1.5	15	ug/L	1	14-Sep-2016 06:11
Surr: 1,2-Dichloroethane-d4	*102*			*70-125*	*%REC*	*1*	*14-Sep-2016 06:11*
Surr: 4-Bromofluorobenzene	*102*			*72-125*	*%REC*	*1*	*14-Sep-2016 06:11*
Surr: Dibromofluoromethane	*104*			*71-125*	*%REC*	*1*	*14-Sep-2016 06:11*
Surr: Toluene-d8	*101*			*75-125*	*%REC*	*1*	*14-Sep-2016 06:11*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**121**		**2.00**	**5.00**	**mg/L**	10	16-Sep-2016 20:07

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

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ALS Group USA, Corp Date: 19-Sep-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: Trip Blank
Collection Date: 08-Sep-2016 00:00

ANALYTICAL REPORT
WorkOrder:HS16090544
Lab ID:HS16090544-10
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	14-Sep-2016 06:38
Ethylbenzene		U	0.50	5.0	ug/L	1	14-Sep-2016 06:38
Toluene		U	0.50	5.0	ug/L	1	14-Sep-2016 06:38
Xylenes, Total		U	1.5	15	ug/L	1	14-Sep-2016 06:38
Surr: 1,2-Dichloroethane-d4	*99.9*			*70-125*	*%REC*	*1*	*14-Sep-2016 06:38*
Surr: 4-Bromofluorobenzene	*99.5*			*72-125*	*%REC*	*1*	*14-Sep-2016 06:38*
Surr: Dibromofluoromethane	*103*			*71-125*	*%REC*	*1*	*14-Sep-2016 06:38*
Surr: Toluene-d8	*100*			*75-125*	*%REC*	*1*	*14-Sep-2016 06:38*

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Sep-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: Dup
Collection Date: 08-Sep-2016 00:00

ANALYTICAL REPORT
WorkOrder:HS16090544
Lab ID:HS16090544-11
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	14-Sep-2016 07:04
Ethylbenzene		U	0.50	5.0	ug/L	1	14-Sep-2016 07:04
Toluene		U	0.50	5.0	ug/L	1	14-Sep-2016 07:04
Xylenes, Total		U	1.5	15	ug/L	1	14-Sep-2016 07:04
Surr: 1,2-Dichloroethane-d4	*99.7*			*70-125*	*%REC*	*1*	*14-Sep-2016 07:04*
Surr: 4-Bromofluorobenzene	*103*			*72-125*	*%REC*	*1*	*14-Sep-2016 07:04*
Surr: Dibromofluoromethane	*101*			*71-125*	*%REC*	*1*	*14-Sep-2016 07:04*
Surr: Toluene-d8	*102*			*75-125*	*%REC*	*1*	*14-Sep-2016 07:04*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**772**		**10.0**	**25.0**	**mg/L**	50	16-Sep-2016 20:21

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

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ALS Group USA, Corp Date: 19-Sep-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16090544

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R281305	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS16090544-01	MW-1	08 Sep 2016 10:40			14 Sep 2016 01:23	1
HS16090544-02	MW-2	08 Sep 2016 10:25			14 Sep 2016 03:08	1
HS16090544-03	MW-3	08 Sep 2016 11:40			14 Sep 2016 03:34	1
HS16090544-04	MW-4	08 Sep 2016 12:55			14 Sep 2016 04:01	1
HS16090544-05	MW-5	08 Sep 2016 12:40			14 Sep 2016 04:27	1
HS16090544-06	MW-6	08 Sep 2016 13:30			14 Sep 2016 04:53	1
HS16090544-07	MW-7	08 Sep 2016 13:15			14 Sep 2016 05:19	1
HS16090544-08	MW-8	08 Sep 2016 11:55			14 Sep 2016 05:45	1
HS16090544-09	MW-9	08 Sep 2016 12:20			14 Sep 2016 06:11	1
HS16090544-10	Trip Blank	08 Sep 2016 00:00			14 Sep 2016 06:38	1
HS16090544-11	Dup	08 Sep 2016 00:00			14 Sep 2016 07:04	1
Batch ID R281527	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS16090544-01	MW-1	08 Sep 2016 10:40			16 Sep 2016 17:12	10
HS16090544-02	MW-2	08 Sep 2016 10:25			16 Sep 2016 17:27	10
HS16090544-03	MW-3	08 Sep 2016 11:40			16 Sep 2016 17:41	10
HS16090544-04	MW-4	08 Sep 2016 12:55			16 Sep 2016 18:25	10
HS16090544-05	MW-5	08 Sep 2016 12:40			16 Sep 2016 19:09	20
HS16090544-06	MW-6	08 Sep 2016 13:30			16 Sep 2016 19:23	5
HS16090544-07	MW-7	08 Sep 2016 13:15			16 Sep 2016 19:38	50
HS16090544-08	MW-8	08 Sep 2016 11:55			16 Sep 2016 19:52	10
HS16090544-09	MW-9	08 Sep 2016 12:20			16 Sep 2016 20:07	10
HS16090544-11	Dup	08 Sep 2016 00:00			16 Sep 2016 20:21	50

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Sep-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16090544

QC BATCH REPORT

Batch ID: R281305 **Instrument: VOA1** **Method: SW8260**

MBLK Sample ID: **VBLKW-160913** Units: **ug/L** Analysis Date: **14-Sep-2016 00:31**
Client ID: Run ID: **VOA1_281305** SeqNo: **3824682** 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	15								
Surr: 1,2-Dichloroethane-d4	*51.32*	*0*	*50*	*0*	*103*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*49.5*	*0*	*50*	*0*	*99.0*	*72 - 125*				
Surr: Dibromofluoromethane	*50.41*	*0*	*50*	*0*	*101*	*71 - 125*				
Surr: Toluene-d8	*49.24*	*0*	*50*	*0*	*98.5*	*75 - 125*				

LCS Sample ID: **VLCSW-160913** Units: **ug/L** Analysis Date: **13-Sep-2016 23:38**
Client ID: Run ID: **VOA1_281305** SeqNo: **3824681** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	54.34	5.0	50	0	109	73 - 121				
Ethylbenzene	48.99	5.0	50	0	98.0	80 - 120				
Toluene	51.38	5.0	50	0	103	80 - 120				
Xylenes, Total	155.7	15	150	0	104	80 - 120				
Surr: 1,2-Dichloroethane-d4	*48.63*	*0*	*50*	*0*	*97.3*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*53.2*	*0*	*50*	*0*	*106*	*72 - 125*				
Surr: Dibromofluoromethane	*50.13*	*0*	*50*	*0*	*100*	*71 - 125*				
Surr: Toluene-d8	*49.82*	*0*	*50*	*0*	*99.6*	*75 - 125*				

MS Sample ID: **HS16090544-01MS** Units: **ug/L** Analysis Date: **14-Sep-2016 01:49**
Client ID: **MW-1** Run ID: **VOA1_281305** SeqNo: **3824685** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	54.52	5.0	50	0	109	73 - 121				
Ethylbenzene	46.31	5.0	50	0	92.6	80 - 120				
Toluene	51.37	5.0	50	0	103	80 - 120				
Xylenes, Total	145.7	15	150	0	97.1	80 - 120				
Surr: 1,2-Dichloroethane-d4	*48.04*	*0*	*50*	*0*	*96.1*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*52.76*	*0*	*50*	*0*	*106*	*72 - 125*				
Surr: Dibromofluoromethane	*50.12*	*0*	*50*	*0*	*100*	*71 - 125*				
Surr: Toluene-d8	*49.41*	*0*	*50*	*0*	*98.8*	*75 - 125*				

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

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ALS Group USA, Corp Date: 19-Sep-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16090544

QC BATCH REPORT

Batch ID: R281305 **Instrument: VOA1** **Method: SW8260**

MSD Sample ID: **HS16090544-01MSD** Units: **ug/L** Analysis Date: **14-Sep-2016 02:16**
Client ID: **MW-1** Run ID: **VOA1_281305** SeqNo: **3824686** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.63	5.0	50	0	97.3	73 - 121	54.52	11.4	20	
Ethylbenzene	44.3	5.0	50	0	88.6	80 - 120	46.31	4.44	20	
Toluene	47.66	5.0	50	0	95.3	80 - 120	51.37	7.49	20	
Xylenes, Total	139	15	150	0	92.7	78 - 121	145.7	4.68	20	
Surr: 1,2-Dichloroethane-d4	*49.66*	*0*	*50*	*0*	*99.3*	*70 - 125*	*48.04*	*3.32*	*20*	
Surr: 4-Bromofluorobenzene	*48.77*	*0*	*50*	*0*	*97.5*	*72 - 125*	*52.76*	*7.85*	*20*	
Surr: Dibromofluoromethane	*49.89*	*0*	*50*	*0*	*99.8*	*71 - 125*	*50.12*	*0.468*	*20*	
Surr: Toluene-d8	*48.76*	*0*	*50*	*0*	*97.5*	*75 - 125*	*49.41*	*1.32*	*20*	

The following samples were analyzed in this batch:

HS16090544-01	HS16090544-02	HS16090544-03	HS16090544-04
HS16090544-05	HS16090544-06	HS16090544-07	HS16090544-08
HS16090544-09	HS16090544-10	HS16090544-11	

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

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ALS Group USA, Corp Date: 19-Sep-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16090544

QC BATCH REPORT

Batch ID: R281527 **Instrument: ICS2100** **Method: E300**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW1-091616** Units: **mg/L** Analysis Date: **16-Sep-2016 08:30**										
Client ID: Run ID: **ICS2100_281527** SeqNo: **3829101** PrepDate: DF: **1**										
Chloride	U	0.500								
LCS Sample ID: **WLCSW1-091616** Units: **mg/L** Analysis Date: **16-Sep-2016 09:27**										
Client ID: Run ID: **ICS2100_281527** SeqNo: **3829102** PrepDate: DF: **1**										
Chloride	19.96	0.500	20	0	99.8	90 - 110				
LCSD Sample ID: **WLCSDW1-091616** Units: **mg/L** Analysis Date: **16-Sep-2016 09:42**										
Client ID: Run ID: **ICS2100_281527** SeqNo: **3829103** PrepDate: DF: **1**										
Chloride	20.11	0.500	20	0	101	90 - 110	19.96	0.784	20	
MS Sample ID: **HS16090544-03MS** Units: **mg/L** Analysis Date: **16-Sep-2016 17:56**										
Client ID: **MW-3** Run ID: **ICS2100_281527** SeqNo: **3829120** PrepDate: DF: **10**										
Chloride	302.5	5.00	100	215.7	86.8	80 - 120				
MS Sample ID: **HS16090527-01MS** Units: **mg/L** Analysis Date: **16-Sep-2016 14:18**										
Client ID: Run ID: **ICS2100_281527** SeqNo: **3829105** PrepDate: DF: **5**										
Chloride	134.5	2.50	50	86.27	96.5	80 - 120				
MSD Sample ID: **HS16090544-03MSD** Units: **mg/L** Analysis Date: **16-Sep-2016 18:11**										
Client ID: **MW-3** Run ID: **ICS2100_281527** SeqNo: **3829121** PrepDate: DF: **10**										
Chloride	307.5	5.00	100	215.7	91.8	80 - 120	302.5	1.63	20	

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

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ALS Group USA, Corp Date: 19-Sep-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16090544

QC BATCH REPORT

Batch ID: R281527 **Instrument: ICS2100** **Method: E300**

MSD Sample ID: **HS16090527-01MSD** Units: **mg/L** Analysis Date: **16-Sep-2016 14:32**
Client ID: Run ID: **ICS2100_281527** SeqNo: **3829106** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	133.2	2.50	50	86.27	93.9	80 - 120	134.5	0.973	20	

The following samples were analyzed in this batch:

HS16090544-01	HS16090544-02	HS16090544-03	HS16090544-04
HS16090544-05	HS16090544-06	HS16090544-07	HS16090544-08
HS16090544-09	HS16090544-11		

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

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ALS Group USA, Corp Date: 19-Sep-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS16090544**

QUALIFIERS, ACRONYMS, UNITS

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

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

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

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Received by OCD: 4/13/2020 9:00:46 AM

ALS Group USA, Corp Date: 19-Sep-16

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	16-022-1	27-Mar-2017
Illinois	003872	09-May-2017
Kansas	E-10352 2015-2016	30-Sep-2016
Kentucky	96 2016-2017	30-Apr-2017
Louisiana	03087 2016-2017	30-Jun-2017
North Carolina	624 - 2016	31-Dec-2016
North Dakota	R193 2016-2017	30-Apr-2017
Oklahoma	2016-122	31-Aug-2017
Texas	TX104704231-16-17	30-Apr-2017

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ALS Group USA, Corp Date: 19-Sep-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16090544

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS16090544-01	MW-1	Login	9/13/2016 1:14:08 PM	DJW	1C
HS16090544-01	MW-1	Login	9/13/2016 1:14:08 PM	DJW	VW-3
HS16090544-02	MW-2	Login	9/13/2016 1:14:08 PM	DJW	1C
HS16090544-02	MW-2	Login	9/13/2016 1:14:08 PM	DJW	VW-3
HS16090544-03	MW-3	Login	9/13/2016 1:14:08 PM	DJW	1C
HS16090544-03	MW-3	Login	9/13/2016 1:14:08 PM	DJW	VW-3
HS16090544-04	MW-4	Login	9/13/2016 1:14:09 PM	DJW	1C
HS16090544-04	MW-4	Login	9/13/2016 1:14:09 PM	DJW	VW-3
HS16090544-05	MW-5	Login	9/13/2016 1:14:09 PM	DJW	1C
HS16090544-05	MW-5	Login	9/13/2016 1:14:09 PM	DJW	VW-3
HS16090544-06	MW-6	Login	9/13/2016 1:14:09 PM	DJW	1C
HS16090544-06	MW-6	Login	9/13/2016 1:14:09 PM	DJW	VW-3
HS16090544-07	MW-7	Login	9/13/2016 1:14:10 PM	DJW	1C
HS16090544-07	MW-7	Login	9/13/2016 1:14:10 PM	DJW	VW-3
HS16090544-08	MW-8	Login	9/13/2016 1:14:10 PM	DJW	1C
HS16090544-08	MW-8	Login	9/13/2016 1:14:10 PM	DJW	VW-3
HS16090544-09	MW-9	Login	9/13/2016 1:14:11 PM	DJW	1C
HS16090544-09	MW-9	Login	9/13/2016 1:14:11 PM	DJW	VW-3
HS16090544-10	Trip Blank	Login	9/13/2016 1:14:11 PM	DJW	VW-3
HS16090544-11	Dup	Login	9/13/2016 1:14:11 PM	DJW	1C
HS16090544-11	Dup	Login	9/13/2016 1:14:11 PM	DJW	VW-3

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ALS Group USA, Corp Date: 19-Sep-16

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **13-Sep-2016 08:45**

Work Order: HS16090544 Received by: **RPG**

Checklist completed by: *Corey Grandits* 13-Sep-2016 (eSignature / Date) Reviewed by: *Dane J. Wacasey* 14-Sep-2016 (eSignature / Date)

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	0.6c/1.3c uc/c	IR#11	
Cooler(s)/Kit(s):	25776		
Date/Time sample(s) sent to storage:	09/13/2016 13:25		
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-6 chloride container missing collection date and time.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

Page 1 of 2

COC ID: 151438

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	4502201559 ENV749-40	Project Name	55627DM GSHI PXP Hill E.C. Federal	A	8260_W (8260 BTEX)
Work Order		Project Number		B	300_W (300 Chloride)
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc. c/o GHD	C	8260_W (8260 BTEX-Trip Blank)
Send Report To	Angela Bown	Invoice Attn	Accounts Payable	D	
Address	PO Box 2148	Address	5005 LBJ Fwy. #300	E	HS16090544
				F	Glenn Springs Holdings, Inc.
City/State/Zip	Houston, TX 77252-2148	City/State/Zip	Dallas, TX 75244	G	55627DM GSHI PXP Hill E.C. Federal #7 TB
Phone		Phone	(972) 687-7500	H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1	9-9-16	1040	Water		4	X	X									
2	MW-2	9-8-16	1025	Water		4	X	X									
3	MW-3	9-8-16	1140	Water		4	X	X									
4	MW-4	9-8-16	1255	Water		4	X	X									
5	MW-5	9-9-16	1240	Water		4	X	X									
6	MW-6	9-8-16	1330	Water		4	X	X									
7	MW-7	9-8-16	1315	Water		4	X	X									
8	MW-8	9-9-16	1155	Water		4	X	X									
9	MW-9	9-8-16	1220	Water		4	X	X									
10	Trip Blank			Water		2			X								

Pres. 1E8

Sampler(s) Please Print & Sign: Cole Pena

Shipment Method: Fed EX

Required Turnaround Time: (Check Box) TAT: 10 days Other:

Results Due Date:

Relinquished by: Cole Pena	Date: 9-12-16	Time: 1700	Received by:	Notes: [GSHI PXP Hill EC Federal 7 TB]	
Relinquished by:	Date:	Time:	Received by (Laboratory): R Cuse 9/12/16 08:45 AM	Cooler ID	Cooler Temp.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	25776	0.6
				IR #11	
				Cf +0.7	

QC Package: (Check One Box Below)
QC Level: STD
Other:

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

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

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Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

Page 2 of 2

COC ID: 130064

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information	
Purchase Order	4501709538	Project Name	GSHI PXP Hill, E.C. Federal #7 TB
Work Order		Project Number	55627DM
Company Name	Glenn Springs Holdings	Bill To Company	Glenn Springs Holdings
Send Report To	Angela Bown	Invoice Attn	Jennifer Devonshire
Address	C/O CRA 9033 Merridian Way	Address	C/O CRA 2055 Niagara Falls Blvd. Suite 3
City/State/Zip	West Chester,Ohio,45069	City/State/Zip	Niagara Falls, NY 14304
Phone	(513) 942-4750	Phone	
Fax		Fax	
e-Mail Address	abown@craworld.com	e-Mail Address	

Parameter/Method Request for Analysis

A ~~Chloride (300)~~ 8260-W (8260 BTEX)
B 300_W (300 Chloride)
C
D
E
F
G
H
I
J

HS16090544
Glenn Springs Holdings, Inc.
55627DM GSHI PXP Hill E.C. Federal #7 TB

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	DUP	9-8-16	—	W	1/8	4	X	X									
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Cole Pare Cole Pare

Shipment Method: Fed Ex

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

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
Cole Pare	9-12-16	1700	
Relinquished by:	Date:	Time:	Received by (Laboratory):
			R Cline 9/13/16 08:45am
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Cooler ID	Cooler Temp.
25776	0-6
12H 11	
cf-107	

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

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

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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 Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

25776

CUSTODY SEAL
Date: 9/12/16 Time: 1700
Name:
Company:

Seal Broken By:
Date: 09/13/16

25776 SEP 13 2016

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

25776

CUSTODY SEAL
Date: 9/12/16 Time: 1700
Name:
Company:

Seal Broken By:
Date: 09/13/16

FedEx
TRK# 0221 6786 7200 0065

TUE – 13 SEP 10:30A
PRIORITY OVERNIGHT

AB SGRA 25776

77099
TX-US IAH

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

December 19, 2016

Angela Bown
Glenn Springs Holdings, Inc.
PO Box 2148

Houston, TX 77252-2148

Work Order: **HS16120474**

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

Dear Angela,

ALS Environmental received 11 sample(s) on Dec 08, 2016 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: Jumoke.Lawal
Dane J. Wacasey

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Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 19-Dec-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16120474

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS16120474-01	MW-1	Water		06-Dec-2016 10:20	08-Dec-2016 09:00	☐
HS16120474-02	MW-2	Water		06-Dec-2016 10:05	08-Dec-2016 09:00	☐
HS16120474-03	MW-3	Water		06-Dec-2016 10:35	08-Dec-2016 09:00	☐
HS16120474-04	MW-4	Water		06-Dec-2016 12:00	08-Dec-2016 09:00	☐
HS16120474-05	MW-5	Water		06-Dec-2016 11:25	08-Dec-2016 09:00	☐
HS16120474-06	MW-6	Water		06-Dec-2016 12:30	08-Dec-2016 09:00	☐
HS16120474-07	MW-7	Water		06-Dec-2016 12:10	08-Dec-2016 09:00	☐
HS16120474-08	MW-8	Water		06-Dec-2016 10:50	08-Dec-2016 09:00	☐
HS16120474-09	MW-9	Water		06-Dec-2016 11:10	08-Dec-2016 09:00	☐
HS16120474-10	DUP	Water		06-Dec-2016 00:00	08-Dec-2016 09:00	☐
HS16120474-11	Trip Blank	Water		06-Dec-2016 00:00	08-Dec-2016 09:00	☐

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ALS Group USA, Corp Date: 19-Dec-16

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16120474

GCMS Volatiles by Method SW8260

Batch ID: R286342

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

WetChemistry by Method E300

Batch ID: R286680

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Dec-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16120474
Sample ID: MW-1
Lab ID:HS16120474-01
Collection Date: 06-Dec-2016 10:20
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	10-Dec-2016 00:36
Ethylbenzene		U	0.50	5.0	ug/L	1	10-Dec-2016 00:36
Toluene		U	0.50	5.0	ug/L	1	10-Dec-2016 00:36
Xylenes, Total		U	0.50	5.0	ug/L	1	10-Dec-2016 00:36
Surr: 1,2-Dichloroethane-d4	*106*			*70-125*	*%REC*	*1*	*10-Dec-2016 00:36*
Surr: 4-Bromofluorobenzene	*89.2*			*72-125*	*%REC*	*1*	*10-Dec-2016 00:36*
Surr: Dibromofluoromethane	*112*			*71-125*	*%REC*	*1*	*10-Dec-2016 00:36*
Surr: Toluene-d8	*94.7*			*75-125*	*%REC*	*1*	*10-Dec-2016 00:36*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**256**		**2.00**	**5.00**	**mg/L**	10	15-Dec-2016 16:38

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Dec-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16120474
Sample ID: MW-2
Lab ID:HS16120474-02
Collection Date: 06-Dec-2016 10:05
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	10-Dec-2016 02:11
Ethylbenzene		U	0.50	5.0	ug/L	1	10-Dec-2016 02:11
Toluene		U	0.50	5.0	ug/L	1	10-Dec-2016 02:11
Xylenes, Total		U	0.50	5.0	ug/L	1	10-Dec-2016 02:11
Surr: 1,2-Dichloroethane-d4	*108*			*70-125*	*%REC*	*1*	*10-Dec-2016 02:11*
Surr: 4-Bromofluorobenzene	*93.0*			*72-125*	*%REC*	*1*	*10-Dec-2016 02:11*
Surr: Dibromofluoromethane	*113*			*71-125*	*%REC*	*1*	*10-Dec-2016 02:11*
Surr: Toluene-d8	*98.7*			*75-125*	*%REC*	*1*	*10-Dec-2016 02:11*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**173**		**2.00**	**5.00**	**mg/L**	10	15-Dec-2016 17:42

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

RIGHT SOLUTIONS | RIGHT PARTNER
Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 19-Dec-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16120474
Sample ID: MW-3
Lab ID:HS16120474-03
Collection Date: 06-Dec-2016 10:35
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	10-Dec-2016 02:35
Ethylbenzene		U	0.50	5.0	ug/L	1	10-Dec-2016 02:35
Toluene		U	0.50	5.0	ug/L	1	10-Dec-2016 02:35
Xylenes, Total		U	0.50	5.0	ug/L	1	10-Dec-2016 02:35
Surr: 1,2-Dichloroethane-d4	*108*			*70-125*	*%REC*	*1*	*10-Dec-2016 02:35*
Surr: 4-Bromofluorobenzene	*89.9*			*72-125*	*%REC*	*1*	*10-Dec-2016 02:35*
Surr: Dibromofluoromethane	*113*			*71-125*	*%REC*	*1*	*10-Dec-2016 02:35*
Surr: Toluene-d8	*98.2*			*75-125*	*%REC*	*1*	*10-Dec-2016 02:35*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**263**		**2.00**	**5.00**	**mg/L**	10	15-Dec-2016 18:03

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Dec-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16120474
Sample ID: MW-4
Lab ID:HS16120474-04
Collection Date: 06-Dec-2016 12:00
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	10-Dec-2016 02:59
Ethylbenzene		U	0.50	5.0	ug/L	1	10-Dec-2016 02:59
Toluene		U	0.50	5.0	ug/L	1	10-Dec-2016 02:59
Xylenes, Total		U	0.50	5.0	ug/L	1	10-Dec-2016 02:59
Surr: 1,2-Dichloroethane-d4	*108*			*70-125*	*%REC*	*1*	*10-Dec-2016 02:59*
Surr: 4-Bromofluorobenzene	*91.5*			*72-125*	*%REC*	*1*	*10-Dec-2016 02:59*
Surr: Dibromofluoromethane	*113*			*71-125*	*%REC*	*1*	*10-Dec-2016 02:59*
Surr: Toluene-d8	*98.9*			*75-125*	*%REC*	*1*	*10-Dec-2016 02:59*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**304**		**2.00**	**5.00**	**mg/L**	10	15-Dec-2016 18:24

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Dec-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16120474
Sample ID: MW-5
Lab ID:HS16120474-05
Collection Date: 06-Dec-2016 11:25
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	10-Dec-2016 03:23
Ethylbenzene		U	0.50	5.0	ug/L	1	10-Dec-2016 03:23
Toluene		U	0.50	5.0	ug/L	1	10-Dec-2016 03:23
Xylenes, Total		U	0.50	5.0	ug/L	1	10-Dec-2016 03:23
Surr: 1,2-Dichloroethane-d4	*107*			*70-125*	*%REC*	*1*	*10-Dec-2016 03:23*
Surr: 4-Bromofluorobenzene	*91.4*			*72-125*	*%REC*	*1*	*10-Dec-2016 03:23*
Surr: Dibromofluoromethane	*113*			*71-125*	*%REC*	*1*	*10-Dec-2016 03:23*
Surr: Toluene-d8	*95.2*			*75-125*	*%REC*	*1*	*10-Dec-2016 03:23*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**766**		**2.00**	**5.00**	**mg/L**	10	15-Dec-2016 18:46

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Dec-16

Client: Glenn Springs Holdings, Inc. **ANALYTICAL REPORT**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB WorkOrder:HS16120474
Sample ID: MW-6 Lab ID:HS16120474-06
Collection Date: 06-Dec-2016 12:30 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	10-Dec-2016 03:46
Ethylbenzene	U		0.50	5.0	ug/L	1	10-Dec-2016 03:46
Toluene	U		0.50	5.0	ug/L	1	10-Dec-2016 03:46
Xylenes, Total	U		0.50	5.0	ug/L	1	10-Dec-2016 03:46
Surr: 1,2-Dichloroethane-d4	*105*			*70-125*	*%REC*	*1*	*10-Dec-2016 03:46*
Surr: 4-Bromofluorobenzene	*88.8*			*72-125*	*%REC*	*1*	*10-Dec-2016 03:46*
Surr: Dibromofluoromethane	*111*			*71-125*	*%REC*	*1*	*10-Dec-2016 03:46*
Surr: Toluene-d8	*96.3*			*75-125*	*%REC*	*1*	*10-Dec-2016 03:46*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**100**		**1.00**	**2.50**	**mg/L**	5	15-Dec-2016 19:49

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Dec-16

Client: Glenn Springs Holdings, Inc. **ANALYTICAL REPORT**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB WorkOrder:HS16120474
Sample ID: MW-7 Lab ID:HS16120474-07
Collection Date: 06-Dec-2016 12:10 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	10-Dec-2016 04:10
Ethylbenzene		U	0.50	5.0	ug/L	1	10-Dec-2016 04:10
Toluene		U	0.50	5.0	ug/L	1	10-Dec-2016 04:10
Xylenes, Total		U	0.50	5.0	ug/L	1	10-Dec-2016 04:10
Surr: 1,2-Dichloroethane-d4	*109*			*70-125*	*%REC*	*1*	*10-Dec-2016 04:10*
Surr: 4-Bromofluorobenzene	*88.5*			*72-125*	*%REC*	*1*	*10-Dec-2016 04:10*
Surr: Dibromofluoromethane	*114*			*71-125*	*%REC*	*1*	*10-Dec-2016 04:10*
Surr: Toluene-d8	*94.7*			*75-125*	*%REC*	*1*	*10-Dec-2016 04:10*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**1,030**		**8.00**	**20.0**	**mg/L**	40	15-Dec-2016 20:11

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Dec-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16120474
Sample ID: MW-8
Lab ID:HS16120474-08
Collection Date: 06-Dec-2016 10:50
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	10-Dec-2016 04:34
Ethylbenzene		U	0.50	5.0	ug/L	1	10-Dec-2016 04:34
Toluene		U	0.50	5.0	ug/L	1	10-Dec-2016 04:34
Xylenes, Total		U	0.50	5.0	ug/L	1	10-Dec-2016 04:34
Surr: 1,2-Dichloroethane-d4	*108*			*70-125*	*%REC*	*1*	*10-Dec-2016 04:34*
Surr: 4-Bromofluorobenzene	*89.6*			*72-125*	*%REC*	*1*	*10-Dec-2016 04:34*
Surr: Dibromofluoromethane	*113*			*71-125*	*%REC*	*1*	*10-Dec-2016 04:34*
Surr: Toluene-d8	*97.7*			*75-125*	*%REC*	*1*	*10-Dec-2016 04:34*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**182**		**2.00**	**5.00**	**mg/L**	10	15-Dec-2016 20:32

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Dec-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16120474
Sample ID: MW-9
Lab ID:HS16120474-09
Collection Date: 06-Dec-2016 11:10
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	10-Dec-2016 04:58
Ethylbenzene		U	0.50	5.0	ug/L	1	10-Dec-2016 04:58
Toluene		U	0.50	5.0	ug/L	1	10-Dec-2016 04:58
Xylenes, Total		U	0.50	5.0	ug/L	1	10-Dec-2016 04:58
Surr: 1,2-Dichloroethane-d4	*110*			*70-125*	*%REC*	*1*	*10-Dec-2016 04:58*
Surr: 4-Bromofluorobenzene	*89.5*			*72-125*	*%REC*	*1*	*10-Dec-2016 04:58*
Surr: Dibromofluoromethane	*115*			*71-125*	*%REC*	*1*	*10-Dec-2016 04:58*
Surr: Toluene-d8	*100*			*75-125*	*%REC*	*1*	*10-Dec-2016 04:58*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**127**		**2.00**	**5.00**	**mg/L**	10	15-Dec-2016 20:53

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Dec-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: DUP
Collection Date: 06-Dec-2016 00:00

ANALYTICAL REPORT
WorkOrder:HS16120474
Lab ID:HS16120474-10
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	10-Dec-2016 05:21
Ethylbenzene		U	0.50	5.0	ug/L	1	10-Dec-2016 05:21
Toluene		U	0.50	5.0	ug/L	1	10-Dec-2016 05:21
Xylenes, Total		U	0.50	5.0	ug/L	1	10-Dec-2016 05:21
Surr: 1,2-Dichloroethane-d4	*106*			*70-125*	*%REC*	*1*	*10-Dec-2016 05:21*
Surr: 4-Bromofluorobenzene	*90.8*			*72-125*	*%REC*	*1*	*10-Dec-2016 05:21*
Surr: Dibromofluoromethane	*111*			*71-125*	*%REC*	*1*	*10-Dec-2016 05:21*
Surr: Toluene-d8	*99.1*			*75-125*	*%REC*	*1*	*10-Dec-2016 05:21*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**177**		**2.00**	**5.00**	**mg/L**	10	15-Dec-2016 21:15

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Dec-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16120474
Sample ID: Trip Blank
Lab ID:HS16120474-11
Collection Date: 06-Dec-2016 00:00
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	09-Dec-2016 23:49
Ethylbenzene		U	0.50	5.0	ug/L	1	09-Dec-2016 23:49
Toluene		U	0.50	5.0	ug/L	1	09-Dec-2016 23:49
Xylenes, Total		U	0.50	5.0	ug/L	1	09-Dec-2016 23:49
Surr: 1,2-Dichloroethane-d4	*105*			*70-125*	*%REC*	*1*	*09-Dec-2016 23:49*
Surr: 4-Bromofluorobenzene	*88.9*			*72-125*	*%REC*	*1*	*09-Dec-2016 23:49*
Surr: Dibromofluoromethane	*108*			*71-125*	*%REC*	*1*	*09-Dec-2016 23:49*
Surr: Toluene-d8	*96.2*			*75-125*	*%REC*	*1*	*09-Dec-2016 23:49*

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Dec-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16120474

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R286342	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS16120474-01	MW-1	06 Dec 2016 10:20			10 Dec 2016 00:36	1
HS16120474-02	MW-2	06 Dec 2016 10:05			10 Dec 2016 02:11	1
HS16120474-03	MW-3	06 Dec 2016 10:35			10 Dec 2016 02:35	1
HS16120474-04	MW-4	06 Dec 2016 12:00			10 Dec 2016 02:59	1
HS16120474-05	MW-5	06 Dec 2016 11:25			10 Dec 2016 03:23	1
HS16120474-06	MW-6	06 Dec 2016 12:30			10 Dec 2016 03:46	1
HS16120474-07	MW-7	06 Dec 2016 12:10			10 Dec 2016 04:10	1
HS16120474-08	MW-8	06 Dec 2016 10:50			10 Dec 2016 04:34	1
HS16120474-09	MW-9	06 Dec 2016 11:10			10 Dec 2016 04:58	1
HS16120474-10	DUP	06 Dec 2016 00:00			10 Dec 2016 05:21	1
HS16120474-11	Trip Blank	06 Dec 2016 00:00			09 Dec 2016 23:49	1
Batch ID R286680	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS16120474-01	MW-1	06 Dec 2016 10:20			15 Dec 2016 16:38	10
HS16120474-02	MW-2	06 Dec 2016 10:05			15 Dec 2016 17:42	10
HS16120474-03	MW-3	06 Dec 2016 10:35			15 Dec 2016 18:03	10
HS16120474-04	MW-4	06 Dec 2016 12:00			15 Dec 2016 18:24	10
HS16120474-05	MW-5	06 Dec 2016 11:25			15 Dec 2016 18:46	10
HS16120474-06	MW-6	06 Dec 2016 12:30			15 Dec 2016 19:49	5
HS16120474-07	MW-7	06 Dec 2016 12:10			15 Dec 2016 20:11	40
HS16120474-08	MW-8	06 Dec 2016 10:50			15 Dec 2016 20:32	10
HS16120474-09	MW-9	06 Dec 2016 11:10			15 Dec 2016 20:53	10
HS16120474-10	DUP	06 Dec 2016 00:00			15 Dec 2016 21:15	10

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Dec-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16120474

QC BATCH REPORT

Batch ID: R286342 **Instrument: VOA6** **Method: SW8260**

MBLK Sample ID: **VBLKW-161209** Units: **ug/L** Analysis Date: **09-Dec-2016 23:25**
Client ID: Run ID: **VOA6_286342** SeqNo: **3924603** 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	*52.47*	*0*	*50*	*0*	*105*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*45.06*	*0*	*50*	*0*	*90.1*	*72 - 125*				
Surr: Dibromofluoromethane	*55.48*	*0*	*50*	*0*	*111*	*71 - 125*				
Surr: Toluene-d8	*48.52*	*0*	*50*	*0*	*97.0*	*75 - 125*				

LCS Sample ID: **VLCSW-161209** Units: **ug/L** Analysis Date: **09-Dec-2016 22:37**
Client ID: Run ID: **VOA6_286342** SeqNo: **3924602** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	52.08	5.0	50	0	104	73 - 121				
Ethylbenzene	46.19	5.0	50	0	92.4	80 - 120				
Toluene	44.85	5.0	50	0	89.7	80 - 120				
Xylenes, Total	138	5.0	150	0	92.0	80 - 120				
Surr: 1,2-Dichloroethane-d4	*52.79*	*0*	*50*	*0*	*106*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*46.81*	*0*	*50*	*0*	*93.6*	*72 - 125*				
Surr: Dibromofluoromethane	*56.42*	*0*	*50*	*0*	*113*	*71 - 125*				
Surr: Toluene-d8	*49.38*	*0*	*50*	*0*	*98.8*	*75 - 125*				

MS Sample ID: **HS16120474-01MS** Units: **ug/L** Analysis Date: **10-Dec-2016 01:00**
Client ID: **MW-1** Run ID: **VOA6_286342** SeqNo: **3924607** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	51.43	5.0	50	0	103	73 - 121				
Ethylbenzene	44.56	5.0	50	0	89.1	80 - 120				
Toluene	43.18	5.0	50	0	86.4	80 - 120				
Xylenes, Total	133.7	5.0	150	0	89.1	80 - 120				
Surr: 1,2-Dichloroethane-d4	*52.66*	*0*	*50*	*0*	*105*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*46.52*	*0*	*50*	*0*	*93.0*	*72 - 125*				
Surr: Dibromofluoromethane	*56.63*	*0*	*50*	*0*	*113*	*71 - 125*				
Surr: Toluene-d8	*49.21*	*0*	*50*	*0*	*98.4*	*75 - 125*				

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Dec-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16120474

QC BATCH REPORT

Batch ID: R286342 **Instrument: VOA6** **Method: SW8260**

MSD Sample ID: **HS16120474-01MSD** Units: **ug/L** Analysis Date: **10-Dec-2016 01:24**
Client ID: **MW-1** Run ID: **VOA6_286342** SeqNo: **3924608** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	51.46	5.0	50	0	103	73 - 121	51.43	0.0583	20	
Ethylbenzene	46.54	5.0	50	0	93.1	80 - 120	44.56	4.34	20	
Toluene	45.47	5.0	50	0	90.9	80 - 120	43.18	5.16	20	
Xylenes, Total	139.3	5.0	150	0	92.9	78 - 121	133.7	4.11	20	
Surr: 1,2-Dichloroethane-d4	*53.42*	*0*	*50*	*0*	*107*	*70 - 125*	*52.66*	*1.44*	*20*	
Surr: 4-Bromofluorobenzene	*46.88*	*0*	*50*	*0*	*93.8*	*72 - 125*	*46.52*	*0.759*	*20*	
Surr: Dibromofluoromethane	*57.06*	*0*	*50*	*0*	*114*	*71 - 125*	*56.63*	*0.741*	*20*	
Surr: Toluene-d8	*48.88*	*0*	*50*	*0*	*97.8*	*75 - 125*	*49.21*	*0.663*	*20*	

The following samples were analyzed in this batch:

HS16120474-01	HS16120474-02	HS16120474-03	HS16120474-04
HS16120474-05	HS16120474-06	HS16120474-07	HS16120474-08
HS16120474-09	HS16120474-10	HS16120474-11	

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

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ALS Group USA, Corp Date: 19-Dec-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16120474

QC BATCH REPORT

Batch ID: R286680 **Instrument: ICS3000** **Method: E300**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW1-121516** Units: **mg/L** Analysis Date: **15-Dec-2016 11:10**										
Client ID: Run ID: **ICS3000_286680** SeqNo: **3932285** PrepDate: DF: **1**										
Chloride	U	0.500								
LCS Sample ID: **WLCSW1-121516** Units: **mg/L** Analysis Date: **15-Dec-2016 11:31**										
Client ID: Run ID: **ICS3000_286680** SeqNo: **3932286** PrepDate: DF: **1**										
Chloride	20.35	0.500	20	0	102	90 - 110				
LCSD Sample ID: **WLCSDW1-121516** Units: **mg/L** Analysis Date: **15-Dec-2016 11:52**										
Client ID: Run ID: **ICS3000_286680** SeqNo: **3932287** PrepDate: DF: **1**										
Chloride	20.43	0.500	20	0	102	90 - 110	20.35	0.397	20	
MS Sample ID: **HS16120475-01MS** Units: **mg/L** Analysis Date: **15-Dec-2016 21:57**										
Client ID: Run ID: **ICS3000_286680** SeqNo: **3932303** PrepDate: DF: **10**										
Chloride	378.5	5.00	100	283.1	95.3	80 - 120				
MS Sample ID: **HS16120474-01MS** Units: **mg/L** Analysis Date: **15-Dec-2016 16:59**										
Client ID: **MW-1** Run ID: **ICS3000_286680** SeqNo: **3932289** PrepDate: DF: **10**										
Chloride	351.4	5.00	100	255.9	95.5	80 - 120				
MSD Sample ID: **HS16120475-01MSD** Units: **mg/L** Analysis Date: **15-Dec-2016 22:18**										
Client ID: Run ID: **ICS3000_286680** SeqNo: **3932304** PrepDate: DF: **10**										
Chloride	380.3	5.00	100	283.1	97.2	80 - 120	378.5	0.485	20	

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

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ALS Group USA, Corp Date: 19-Dec-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16120474

QC BATCH REPORT

Batch ID: R286680 **Instrument: ICS3000** **Method: E300**

MSD Sample ID: **HS16120474-01MSD** Units: **mg/L** Analysis Date: **15-Dec-2016 17:21**
Client ID: **MW-1** Run ID: **ICS3000_286680** SeqNo: **3932290** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	348.9	5.00	100	255.9	93.0	80 - 120	351.4	0.713	20	

The following samples were analyzed in this batch:

HS16120474-01	HS16120474-02	HS16120474-03	HS16120474-04
HS16120474-05	HS16120474-06	HS16120474-07	HS16120474-08
HS16120474-09	HS16120474-10		

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

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ALS Group USA, Corp Date: 19-Dec-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS16120474**

QUALIFIERS, ACRONYMS, UNITS

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

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

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

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ALS Group USA, Corp Date: 19-Dec-16

CERTIFICATIONS,ACCREDITATIONS & LICENSES

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

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ALS Group USA, Corp Date: 19-Dec-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16120474

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS16120474-01	MW-1	Login	12/9/2016 12:11:54 PM	CL	14A
HS16120474-01	MW-1	Login	12/9/2016 12:11:54 PM	CL	VW-3
HS16120474-02	MW-2	Login	12/9/2016 12:11:54 PM	CL	14A
HS16120474-02	MW-2	Login	12/9/2016 12:11:54 PM	CL	VW-3
HS16120474-03	MW-3	Login	12/9/2016 12:11:55 PM	CL	14A
HS16120474-03	MW-3	Login	12/9/2016 12:11:55 PM	CL	VW-3
HS16120474-04	MW-4	Login	12/9/2016 12:11:55 PM	CL	14A
HS16120474-04	MW-4	Login	12/9/2016 12:11:55 PM	CL	VW-3
HS16120474-05	MW-5	Login	12/9/2016 12:11:56 PM	CL	14A
HS16120474-05	MW-5	Login	12/9/2016 12:11:56 PM	CL	VW-3
HS16120474-06	MW-6	Login	12/9/2016 12:11:56 PM	CL	14A
HS16120474-06	MW-6	Login	12/9/2016 12:11:56 PM	CL	VW-3
HS16120474-07	MW-7	Login	12/9/2016 12:11:57 PM	CL	14A
HS16120474-07	MW-7	Login	12/9/2016 12:11:57 PM	CL	VW-3
HS16120474-08	MW-8	Login	12/9/2016 12:11:58 PM	CL	14A
HS16120474-08	MW-8	Login	12/9/2016 12:11:58 PM	CL	VW-3
HS16120474-09	MW-9	Login	12/9/2016 12:11:58 PM	CL	14A
HS16120474-09	MW-9	Login	12/9/2016 12:11:58 PM	CL	VW-3
HS16120474-10	DUP	Login	12/9/2016 12:11:58 PM	CL	14A
HS16120474-10	DUP	Login	12/9/2016 12:11:58 PM	CL	VW-3
HS16120474-11	Trip Blank	Login	12/9/2016 12:11:58 PM	CL	VW-3

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ALS Group USA, Corp Date: 19-Dec-16

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **08-Dec-2016 09:00**

Work Order: HS16120474 Received by: **RPG**

Checklist completed by: *Cesar A. Lira* eSignature 9-Dec-2016 Date

Reviewed by: *Dane J. Wacasey* eSignature 12-Dec-2016 Date

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.0c/1.3c uc/c	11	
Cooler(s)/Kit(s):	23966		
Date/Time sample(s) sent to storage:	12/09/2016 12:30pm		
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: COC has no collection time, bottle labels include time. Logged time per labels.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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Cincinnati, OH +1 513 733 5336
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Middletown, PA +1 717 944 5541
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Chain of Custody Form

Page _____ of _____

COC ID: 152536

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	4502201559 ENV749-40	Project Name	55627DM GSHI PXP Hill E.C. Federal	A	8260_W (8260 BTEX)
Work Order		Project Number		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	Angela Bown	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		e-Mail Address		J	

HS16120474
Glenn Springs Holdings, Inc.
55627DM GSHI PXP Hill E.C. Federal #7 TB

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1	12-6-16		Water	1+8	4	X	X									
2	MW-2	12-6-16		Water	1+8	4	X	X									
3	MW-3	12-6-16		Water	1+8	4	X	X									
4	MW-4	12-6-16		Water	1+8	4	X	X									
5	MW-5	12-6-16		Water	1+8	4	X	X									
6	MW-6	12-6-16		Water	1+8	4	X	X									
7	MW-7	12-6-16		Water	1+8	4	X	X									
8	MW-8	12-6-16		Water	1+8	4	X	X									
9	MW-9	12-6-16		Water	1+8	4	X	X									
10																	

Sampler(s) Please Print & Sign: Mathew McDaniel

Shipment Method: Fed EX

Required Turnaround Time: (Check Box) TAT: 10 days Other:

Results Due Date:

Relinquished by: Mathew McDaniel	Date: 12-7-16	Time: 1700	Received by:	Notes: [GSHI PXP Hill EC Federal 7 TB]	
Relinquished by:	Date:	Time:	Received by (Laboratory): RGF 12/08/16 09:00	Cooler ID: 23966	Cooler Temp.: 4/C 1.0
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	QC Package: (Check One Box Below) QC Level STD Other:	

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

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

IR#11 CF-0.3

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

Chain of Custody Form

Page _____ of _____

COC ID: 152535

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	4502201559 ENV749-40	Project Name	55627DM GSHI PXP Hill E.C. Federal	A	8260_W (8260 BTEX)
Work Order		Project Number		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	Angela Bown	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		e-Mail Address		J	

HS16120474
Glenn Springs Holdings, Inc.
55627DM GSHI PXP Hill E.C. Federal #7 TB

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	DUP	12-6-16	1+8	Water		4	X	X									
2	Trip Blank			Water		2			X								
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: [signature]

Shipment Method: FedEX

Required Turnaround Time: (Check Box) TAT: 10 days Other:

Results Due Date:

Relinquished by: [signature]	Date: 12-7-16	Time: 1700	Received by:	Notes: [GSHI PXP Hill EC Federal 7 TB]	
Relinquished by:	Date:	Time:	Received by (Laboratory): KC 12.8.16. 09:00	Cooler ID	Cooler Temp.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	23966	1.0° -ff 11 C/F 0.3

QC Package: (Check One Box Below)
QC Level: STD
Other:

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

ote: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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3. The Chain of Custody is a legal document. All information must be completed accurately.

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

23966

CUSTODY SEAL

Date: 12-7-16 Time: 4:55 pm

Name: Mike Carmona

Company: Tetra Tech

Seal Broken By:

Date: 12/08/16

23966 DEC 0 8 2016

FedEx
TRK# 0221 6786 7202 1660

THU – 08 DEC 10:30A
PRIORITY OVERNIGHT

AB SGRA 23966

77099
TX-US IAH

#2625664 12/07 544J1/D42F/14E8

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

March 15, 2017

Angela Bown
Glenn Springs Holdings, Inc.
PO Box 2148

Houston, TX 77252-2148

Work Order: **HS17030339**

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

Dear Angela,

ALS Environmental received 11 sample(s) on Mar 07, 2017 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

Released to Imaging: 9/20/2021 3:06:37 PM
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ALS Group USA, Corp Date: 15-Mar-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS17030339

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS17030339-01	MW-1	Water		02-Mar-2017 16:00	07-Mar-2017 09:10	☐
HS17030339-02	MW-2	Water		02-Mar-2017 15:45	07-Mar-2017 09:10	☐
HS17030339-03	MW-3	Water		02-Mar-2017 16:15	07-Mar-2017 09:10	☐
HS17030339-04	MW-4	Water		02-Mar-2017 14:20	07-Mar-2017 09:10	☐
HS17030339-05	MW-5	Water		02-Mar-2017 15:30	07-Mar-2017 09:10	☐
HS17030339-06	MW-6	Water		02-Mar-2017 13:30	07-Mar-2017 09:10	☐
HS17030339-07	MW-7	Water		02-Mar-2017 13:50	07-Mar-2017 09:10	☐
HS17030339-08	MW-8	Water		02-Mar-2017 14:45	07-Mar-2017 09:10	☐
HS17030339-09	MW-9	Water		02-Mar-2017 15:15	07-Mar-2017 09:10	☐
HS17030339-10	DUP	Water		02-Mar-2017 00:00	07-Mar-2017 09:10	☐
HS17030339-11	Trip Blank	Water	TB-021417-58	02-Mar-2017 00:00	07-Mar-2017 09:10	☐

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ALS Group USA, Corp Date: 15-Mar-17

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS17030339

GCMS Volatiles by Method SW8260

Batch ID: R290761

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

WetChemistry by Method E300

Batch ID: R291110

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

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ALS Group USA, Corp Date: 15-Mar-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-1
Collection Date: 02-Mar-2017 16:00

ANALYTICAL REPORT
WorkOrder:HS17030339
Lab ID:HS17030339-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		**Method:SW8260**					Analyst: PC
Benzene		U	0.00060	0.0050	mg/L	1	08-Mar-2017 14:07
Ethylbenzene		U	0.00050	0.0050	mg/L	1	08-Mar-2017 14:07
Toluene		U	0.00050	0.0050	mg/L	1	08-Mar-2017 14:07
Xylenes, Total		U	0.00050	0.0050	mg/L	1	08-Mar-2017 14:07
Surr: 1,2-Dichloroethane-d4	*101*			*70-125*	*%REC*	*1*	*08-Mar-2017 14:07*
Surr: 4-Bromofluorobenzene	*108*			*72-125*	*%REC*	*1*	*08-Mar-2017 14:07*
Surr: Dibromofluoromethane	*94.4*			*71-125*	*%REC*	*1*	*08-Mar-2017 14:07*
Surr: Toluene-d8	*100*			*75-125*	*%REC*	*1*	*08-Mar-2017 14:07*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**148**		**2.00**	**5.00**	**mg/L**	10	14-Mar-2017 16:02

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

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ALS Group USA, Corp Date: 15-Mar-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-2
Collection Date: 02-Mar-2017 15:45

ANALYTICAL REPORT
WorkOrder:HS17030339
Lab ID:HS17030339-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		**Method:SW8260**					Analyst: PC
Benzene		U	0.00060	0.0050	mg/L	1	08-Mar-2017 14:33
Ethylbenzene		U	0.00050	0.0050	mg/L	1	08-Mar-2017 14:33
Toluene		U	0.00050	0.0050	mg/L	1	08-Mar-2017 14:33
Xylenes, Total		U	0.00050	0.0050	mg/L	1	08-Mar-2017 14:33
Surr: 1,2-Dichloroethane-d4	*97.8*			*70-125*	*%REC*	*1*	*08-Mar-2017 14:33*
Surr: 4-Bromofluorobenzene	*107*			*72-125*	*%REC*	*1*	*08-Mar-2017 14:33*
Surr: Dibromofluoromethane	*93.3*			*71-125*	*%REC*	*1*	*08-Mar-2017 14:33*
Surr: Toluene-d8	*100.0*			*75-125*	*%REC*	*1*	*08-Mar-2017 14:33*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**150**		**2.00**	**5.00**	**mg/L**	10	14-Mar-2017 16:46

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

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ALS Group USA, Corp Date: 15-Mar-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-3
Collection Date: 02-Mar-2017 16:15

ANALYTICAL REPORT
WorkOrder:HS17030339
Lab ID:HS17030339-03
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		**Method:SW8260**					Analyst: PC
Benzene		U	0.00060	0.0050	mg/L	1	08-Mar-2017 15:51
Ethylbenzene		U	0.00050	0.0050	mg/L	1	08-Mar-2017 15:51
Toluene		U	0.00050	0.0050	mg/L	1	08-Mar-2017 15:51
Xylenes, Total		U	0.00050	0.0050	mg/L	1	08-Mar-2017 15:51
Surr: 1,2-Dichloroethane-d4	*90.1*			*70-125*	*%REC*	*1*	*08-Mar-2017 15:51*
Surr: 4-Bromofluorobenzene	*111*			*72-125*	*%REC*	*1*	*08-Mar-2017 15:51*
Surr: Dibromofluoromethane	*89.7*			*71-125*	*%REC*	*1*	*08-Mar-2017 15:51*
Surr: Toluene-d8	*106*			*75-125*	*%REC*	*1*	*08-Mar-2017 15:51*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**286**		**2.00**	**5.00**	**mg/L**	10	14-Mar-2017 17:00

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 15-Mar-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-4
Collection Date: 02-Mar-2017 14:20

ANALYTICAL REPORT
WorkOrder:HS17030339
Lab ID:HS17030339-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		**Method:SW8260**					Analyst: PC
Benzene		U	0.00060	0.0050	mg/L	1	08-Mar-2017 16:17
Ethylbenzene		U	0.00050	0.0050	mg/L	1	08-Mar-2017 16:17
Toluene		U	0.00050	0.0050	mg/L	1	08-Mar-2017 16:17
Xylenes, Total		U	0.00050	0.0050	mg/L	1	08-Mar-2017 16:17
Surr: 1,2-Dichloroethane-d4	*96.7*			*70-125*	*%REC*	*1*	*08-Mar-2017 16:17*
Surr: 4-Bromofluorobenzene	*107*			*72-125*	*%REC*	*1*	*08-Mar-2017 16:17*
Surr: Dibromofluoromethane	*95.1*			*71-125*	*%REC*	*1*	*08-Mar-2017 16:17*
Surr: Toluene-d8	*96.1*			*75-125*	*%REC*	*1*	*08-Mar-2017 16:17*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**337**		**2.00**	**5.00**	**mg/L**	10	14-Mar-2017 17:15

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 15-Mar-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-5
Collection Date: 02-Mar-2017 15:30

ANALYTICAL REPORT
WorkOrder:HS17030339
Lab ID:HS17030339-05
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		**Method:SW8260**					Analyst: PC
Benzene		U	0.00060	0.0050	mg/L	1	08-Mar-2017 18:54
Ethylbenzene		U	0.00050	0.0050	mg/L	1	08-Mar-2017 18:54
Toluene		U	0.00050	0.0050	mg/L	1	08-Mar-2017 18:54
Xylenes, Total		U	0.00050	0.0050	mg/L	1	08-Mar-2017 18:54
Surr: 1,2-Dichloroethane-d4	*97.9*			*70-125*	*%REC*	*1*	*08-Mar-2017 18:54*
Surr: 4-Bromofluorobenzene	*110*			*72-125*	*%REC*	*1*	*08-Mar-2017 18:54*
Surr: Dibromofluoromethane	*97.9*			*71-125*	*%REC*	*1*	*08-Mar-2017 18:54*
Surr: Toluene-d8	*97.5*			*75-125*	*%REC*	*1*	*08-Mar-2017 18:54*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**737**		**2.00**	**5.00**	**mg/L**	10	14-Mar-2017 17:30

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 15-Mar-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-6
Collection Date: 02-Mar-2017 13:30

ANALYTICAL REPORT
WorkOrder:HS17030339
Lab ID:HS17030339-06
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		**Method:SW8260**					Analyst: PC
Benzene		U	0.00060	0.0050	mg/L	1	08-Mar-2017 19:20
Ethylbenzene		U	0.00050	0.0050	mg/L	1	08-Mar-2017 19:20
Toluene		U	0.00050	0.0050	mg/L	1	08-Mar-2017 19:20
Xylenes, Total		U	0.00050	0.0050	mg/L	1	08-Mar-2017 19:20
Surr: 1,2-Dichloroethane-d4	*95.6*			*70-125*	*%REC*	*1*	*08-Mar-2017 19:20*
Surr: 4-Bromofluorobenzene	*105*			*72-125*	*%REC*	*1*	*08-Mar-2017 19:20*
Surr: Dibromofluoromethane	*90.8*			*71-125*	*%REC*	*1*	*08-Mar-2017 19:20*
Surr: Toluene-d8	*99.1*			*75-125*	*%REC*	*1*	*08-Mar-2017 19:20*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**97.5**		**1.00**	**2.50**	**mg/L**	5	14-Mar-2017 17:44

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 15-Mar-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7
Collection Date: 02-Mar-2017 13:50

ANALYTICAL REPORT
WorkOrder:HS17030339
Lab ID:HS17030339-07
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		**Method:SW8260**					Analyst: PC
Benzene		U	0.00060	0.0050	mg/L	1	08-Mar-2017 19:46
Ethylbenzene		U	0.00050	0.0050	mg/L	1	08-Mar-2017 19:46
Toluene		U	0.00050	0.0050	mg/L	1	08-Mar-2017 19:46
Xylenes, Total		U	0.00050	0.0050	mg/L	1	08-Mar-2017 19:46
Surr: 1,2-Dichloroethane-d4	*93.9*			*70-125*	*%REC*	*1*	*08-Mar-2017 19:46*
Surr: 4-Bromofluorobenzene	*104*			*72-125*	*%REC*	*1*	*08-Mar-2017 19:46*
Surr: Dibromofluoromethane	*89.6*			*71-125*	*%REC*	*1*	*08-Mar-2017 19:46*
Surr: Toluene-d8	*98.9*			*75-125*	*%REC*	*1*	*08-Mar-2017 19:46*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**1,250**		**8.00**	**20.0**	**mg/L**	40	14-Mar-2017 18:28

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 15-Mar-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-8
Collection Date: 02-Mar-2017 14:45

ANALYTICAL REPORT
WorkOrder:HS17030339
Lab ID:HS17030339-08
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		**Method:SW8260**					Analyst: PC
Benzene		U	0.00060	0.0050	mg/L	1	08-Mar-2017 20:12
Ethylbenzene		U	0.00050	0.0050	mg/L	1	08-Mar-2017 20:12
Toluene		U	0.00050	0.0050	mg/L	1	08-Mar-2017 20:12
Xylenes, Total		U	0.00050	0.0050	mg/L	1	08-Mar-2017 20:12
Surr: 1,2-Dichloroethane-d4	*101*			*70-125*	*%REC*	*1*	*08-Mar-2017 20:12*
Surr: 4-Bromofluorobenzene	*103*			*72-125*	*%REC*	*1*	*08-Mar-2017 20:12*
Surr: Dibromofluoromethane	*98.8*			*71-125*	*%REC*	*1*	*08-Mar-2017 20:12*
Surr: Toluene-d8	*104*			*75-125*	*%REC*	*1*	*08-Mar-2017 20:12*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**166**		**2.00**	**5.00**	**mg/L**	10	14-Mar-2017 18:42

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

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ALS Group USA, Corp Date: 15-Mar-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-9
Collection Date: 02-Mar-2017 15:15

ANALYTICAL REPORT
WorkOrder:HS17030339
Lab ID:HS17030339-09
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		**Method:SW8260**					Analyst: PC
Benzene		U	0.00060	0.0050	mg/L	1	08-Mar-2017 20:38
Ethylbenzene		U	0.00050	0.0050	mg/L	1	08-Mar-2017 20:38
Toluene		U	0.00050	0.0050	mg/L	1	08-Mar-2017 20:38
Xylenes, Total		U	0.00050	0.0050	mg/L	1	08-Mar-2017 20:38
Surr: 1,2-Dichloroethane-d4	*91.5*			*70-125*	*%REC*	*1*	*08-Mar-2017 20:38*
Surr: 4-Bromofluorobenzene	*106*			*72-125*	*%REC*	*1*	*08-Mar-2017 20:38*
Surr: Dibromofluoromethane	*89.9*			*71-125*	*%REC*	*1*	*08-Mar-2017 20:38*
Surr: Toluene-d8	*110*			*75-125*	*%REC*	*1*	*08-Mar-2017 20:38*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**110**		**2.00**	**5.00**	**mg/L**	10	14-Mar-2017 18:57

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

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ALS Group USA, Corp Date: 15-Mar-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: DUP
Collection Date: 02-Mar-2017 00:00

ANALYTICAL REPORT
WorkOrder:HS17030339
Lab ID:HS17030339-10
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		**Method:SW8260**					Analyst: PC
Benzene		U	0.00060	0.0050	mg/L	1	08-Mar-2017 21:04
Ethylbenzene		U	0.00050	0.0050	mg/L	1	08-Mar-2017 21:04
Toluene		U	0.00050	0.0050	mg/L	1	08-Mar-2017 21:04
Xylenes, Total		U	0.00050	0.0050	mg/L	1	08-Mar-2017 21:04
Surr: 1,2-Dichloroethane-d4	*93.0*			*70-125*	*%REC*	*1*	*08-Mar-2017 21:04*
Surr: 4-Bromofluorobenzene	*107*			*72-125*	*%REC*	*1*	*08-Mar-2017 21:04*
Surr: Dibromofluoromethane	*91.3*			*71-125*	*%REC*	*1*	*08-Mar-2017 21:04*
Surr: Toluene-d8	*94.8*			*75-125*	*%REC*	*1*	*08-Mar-2017 21:04*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**110**		**2.00**	**5.00**	**mg/L**	10	14-Mar-2017 19:11

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 15-Mar-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: Trip Blank
Collection Date: 02-Mar-2017 00:00

ANALYTICAL REPORT
WorkOrder:HS17030339
Lab ID:HS17030339-11
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	08-Mar-2017 13:40
Ethylbenzene		U	0.50	5.0	ug/L	1	08-Mar-2017 13:40
Toluene		U	0.50	5.0	ug/L	1	08-Mar-2017 13:40
Xylenes, Total		U	0.50	5.0	ug/L	1	08-Mar-2017 13:40
Surr: 1,2-Dichloroethane-d4	*91.9*			*70-125*	*%REC*	*1*	*08-Mar-2017 13:40*
Surr: 4-Bromofluorobenzene	*111*			*72-125*	*%REC*	*1*	*08-Mar-2017 13:40*
Surr: Dibromofluoromethane	*95.7*			*71-125*	*%REC*	*1*	*08-Mar-2017 13:40*
Surr: Toluene-d8	*111*			*75-125*	*%REC*	*1*	*08-Mar-2017 13:40*

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 15-Mar-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB **DATES REPORT**
WorkOrder: HS17030339

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R290761	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS17030339-01	MW-1	02 Mar 2017 16:00			08 Mar 2017 14:07	1
HS17030339-02	MW-2	02 Mar 2017 15:45			08 Mar 2017 14:33	1
HS17030339-03	MW-3	02 Mar 2017 16:15			08 Mar 2017 15:51	1
HS17030339-04	MW-4	02 Mar 2017 14:20			08 Mar 2017 16:17	1
HS17030339-05	MW-5	02 Mar 2017 15:30			08 Mar 2017 18:54	1
HS17030339-06	MW-6	02 Mar 2017 13:30			08 Mar 2017 19:20	1
HS17030339-07	MW-7	02 Mar 2017 13:50			08 Mar 2017 19:46	1
HS17030339-08	MW-8	02 Mar 2017 14:45			08 Mar 2017 20:12	1
HS17030339-09	MW-9	02 Mar 2017 15:15			08 Mar 2017 20:38	1
HS17030339-10	DUP	02 Mar 2017 00:00			08 Mar 2017 21:04	1
HS17030339-11	Trip Blank	02 Mar 2017 00:00			08 Mar 2017 13:40	1
Batch ID R291110	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS17030339-01	MW-1	02 Mar 2017 16:00			14 Mar 2017 16:02	10
HS17030339-02	MW-2	02 Mar 2017 15:45			14 Mar 2017 16:46	10
HS17030339-03	MW-3	02 Mar 2017 16:15			14 Mar 2017 17:00	10
HS17030339-04	MW-4	02 Mar 2017 14:20			14 Mar 2017 17:15	10
HS17030339-05	MW-5	02 Mar 2017 15:30			14 Mar 2017 17:30	10
HS17030339-06	MW-6	02 Mar 2017 13:30			14 Mar 2017 17:44	5
HS17030339-07	MW-7	02 Mar 2017 13:50			14 Mar 2017 18:28	40
HS17030339-08	MW-8	02 Mar 2017 14:45			14 Mar 2017 18:42	10
HS17030339-09	MW-9	02 Mar 2017 15:15			14 Mar 2017 18:57	10
HS17030339-10	DUP	02 Mar 2017 00:00			14 Mar 2017 19:11	10

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 15-Mar-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS17030339

QC BATCH REPORT

Batch ID: R290761 **Instrument: VOA1** **Method: SW8260**

MBLK Sample ID: **VBLKW-170308** Units: **ug/L** Analysis Date: **08-Mar-2017 13:14**
Client ID: Run ID: **VOA1_290761** SeqNo: **4011058** 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	*47.3*	*0*	*50*	*0*	*94.6*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*56.1*	*0*	*50*	*0*	*112*	*72 - 125*				
Surr: Dibromofluoromethane	*47.25*	*0*	*50*	*0*	*94.5*	*71 - 125*				
Surr: Toluene-d8	*49.38*	*0*	*50*	*0*	*98.8*	*75 - 125*				

LCS Sample ID: **VLCSW-170308** Units: **ug/L** Analysis Date: **08-Mar-2017 11:56**
Client ID: Run ID: **VOA1_290761** SeqNo: **4011057** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.52	5.0	50	0	97.0	73 - 121				
Ethylbenzene	51.09	5.0	50	0	102	80 - 120				
Toluene	46.51	5.0	50	0	93.0	80 - 120				
Xylenes, Total	155.8	5.0	150	0	104	80 - 120				
Surr: 1,2-Dichloroethane-d4	*47.05*	*0*	*50*	*0*	*94.1*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*56.62*	*0*	*50*	*0*	*113*	*72 - 125*				
Surr: Dibromofluoromethane	*46.5*	*0*	*50*	*0*	*93.0*	*71 - 125*				
Surr: Toluene-d8	*50.18*	*0*	*50*	*0*	*100*	*75 - 125*				

MS Sample ID: **HS17030339-01MS** Units: **ug/L** Analysis Date: **08-Mar-2017 14:59**
Client ID: **MW-1** Run ID: **VOA1_290761** SeqNo: **4011062** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	46.18	5.0	50	0	92.4	73 - 121				
Ethylbenzene	48.07	5.0	50	0	96.1	80 - 120				
Toluene	47.28	5.0	50	0	94.6	80 - 120				
Xylenes, Total	156.3	5.0	150	0	104	80 - 120				
Surr: 1,2-Dichloroethane-d4	*49.51*	*0*	*50*	*0*	*99.0*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*53.84*	*0*	*50*	*0*	*108*	*72 - 125*				
Surr: Dibromofluoromethane	*48.4*	*0*	*50*	*0*	*96.8*	*71 - 125*				
Surr: Toluene-d8	*50.64*	*0*	*50*	*0*	*101*	*75 - 125*				

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 15-Mar-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS17030339

QC BATCH REPORT

Batch ID: R290761 **Instrument: VOA1** **Method: SW8260**

MSD Sample ID: **HS17030339-01MSD** Units: **ug/L** Analysis Date: **08-Mar-2017 15:25**
Client ID: **MW-1** Run ID: **VOA1_290761** SeqNo: **4011063** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	47.26	5.0	50	0	94.5	73 - 121	46.18	2.31	20	
Ethylbenzene	46.07	5.0	50	0	92.1	80 - 120	48.07	4.25	20	
Toluene	46.37	5.0	50	0	92.7	80 - 120	47.28	1.94	20	
Xylenes, Total	140.4	5.0	150	0	93.6	78 - 121	156.3	10.7	20	
Surr: 1,2-Dichloroethane-d4	*49.93*	*0*	*50*	*0*	*99.9*	*70 - 125*	*49.51*	*0.842*	*20*	
Surr: 4-Bromofluorobenzene	*56.84*	*0*	*50*	*0*	*114*	*72 - 125*	*53.84*	*5.42*	*20*	
Surr: Dibromofluoromethane	*48.88*	*0*	*50*	*0*	*97.8*	*71 - 125*	*48.4*	*0.981*	*20*	
Surr: Toluene-d8	*50.27*	*0*	*50*	*0*	*101*	*75 - 125*	*50.64*	*0.734*	*20*	

The following samples were analyzed in this batch:

HS17030339-01	HS17030339-02	HS17030339-03	HS17030339-04
HS17030339-05	HS17030339-06	HS17030339-07	HS17030339-08
HS17030339-09	HS17030339-10	HS17030339-11	

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

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 15-Mar-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS17030339

QC BATCH REPORT

Batch ID: R291110 **Instrument: ICS2100** **Method: E300**

MBLK Sample ID: **WBLKW2-031417** Units: **mg/L** Analysis Date: **14-Mar-2017 12:25**
Client ID: Run ID: **ICS2100_291110** SeqNo: **4018462** 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: **WLCSW2-031417** Units: **mg/L** Analysis Date: **14-Mar-2017 12:40**
Client ID: Run ID: **ICS2100_291110** SeqNo: **4018463** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.75	0.500	20	0	104	90 - 110				

LCSD Sample ID: **WLCSDW2-031417** Units: **mg/L** Analysis Date: **14-Mar-2017 12:54**
Client ID: Run ID: **ICS2100_291110** SeqNo: **4018464** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.57	0.500	20	0	103	90 - 110	20.75	0.871	20	

MS Sample ID: **HS17030339-01MS** Units: **mg/L** Analysis Date: **14-Mar-2017 16:17**
Client ID: **MW-1** Run ID: **ICS2100_291110** SeqNo: **4018477** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	248	5.00	100	147.7	100	80 - 120				

MS Sample ID: **HS17030338-02MS** Units: **mg/L** Analysis Date: **14-Mar-2017 14:06**
Client ID: Run ID: **ICS2100_291110** SeqNo: **4018468** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	106.6	2.50	50	53.22	107	80 - 120				

MSD Sample ID: **HS17030339-01MSD** Units: **mg/L** Analysis Date: **14-Mar-2017 16:31**
Client ID: **MW-1** Run ID: **ICS2100_291110** SeqNo: **4018478** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	252.6	5.00	100	147.7	105	80 - 120	248	1.85	20	

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

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ALS Group USA, Corp Date: 15-Mar-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS17030339

QC BATCH REPORT

Batch ID: R291110 **Instrument: ICS2100** **Method: E300**

MSD Sample ID: **HS17030338-02MSD** Units: **mg/L** Analysis Date: **14-Mar-2017 14:20**
Client ID: Run ID: **ICS2100_291110** SeqNo: **4018469** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	104	2.50	50	53.22	102	80 - 120	106.6	2.48	20	

The following samples were analyzed in this batch:

HS17030339-01	HS17030339-02	HS17030339-03	HS17030339-04
HS17030339-05	HS17030339-06	HS17030339-07	HS17030339-08
HS17030339-09	HS17030339-10		

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

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ALS Group USA, Corp Date: 15-Mar-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS17030339

QUALIFIERS, ACRONYMS, UNITS

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

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

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

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ALS Group USA, Corp Date: 15-Mar-17

CERTIFICATIONS,ACCREDITATIONS & LICENSES

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

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ALS Group USA, Corp Date: 15-Mar-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS17030339

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS17030339-01	MW-1	Login	3/7/2017 7:28:25 PM	CL	GCU025
HS17030339-01	MW-1	Login	3/7/2017 7:28:25 PM	CL	VOA009
HS17030339-02	MW-2	Login	3/7/2017 7:28:25 PM	CL	GCU025
HS17030339-02	MW-2	Login	3/7/2017 7:28:25 PM	CL	VOA009
HS17030339-03	MW-3	Login	3/7/2017 7:28:25 PM	CL	GCU025
HS17030339-03	MW-3	Login	3/7/2017 7:28:25 PM	CL	VOA009
HS17030339-04	MW-4	Login	3/7/2017 7:28:25 PM	CL	GCU025
HS17030339-04	MW-4	Login	3/7/2017 7:28:25 PM	CL	VOA009
HS17030339-05	MW-5	Login	3/7/2017 7:28:25 PM	CL	GCU025
HS17030339-05	MW-5	Login	3/7/2017 7:28:25 PM	CL	VOA009
HS17030339-06	MW-6	Login	3/7/2017 7:31:12 PM	CL	GCU025
HS17030339-06	MW-6	Login	3/7/2017 7:31:12 PM	CL	VOA009
HS17030339-07	MW-7	Login	3/7/2017 7:31:12 PM	CL	GCU025
HS17030339-07	MW-7	Login	3/7/2017 7:31:12 PM	CL	VOA009
HS17030339-08	MW-8	Login	3/7/2017 7:31:12 PM	CL	GCU025
HS17030339-08	MW-8	Login	3/7/2017 7:31:12 PM	CL	VOA009
HS17030339-09	MW-9	Login	3/7/2017 7:31:12 PM	CL	GCU025
HS17030339-09	MW-9	Login	3/7/2017 7:31:12 PM	CL	VOA009
HS17030339-11	Trip Blank	Login	3/7/2017 7:32:14 PM	CL	VOA009
HS17030339-10	DUP	Login	3/7/2017 7:34:41 PM	CL	GCU025
HS17030339-10	DUP	Login	3/7/2017 7:34:41 PM	CL	VOA009

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ALS Group USA, Corp Date: 15-Mar-17

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **07-Mar-2017 09:10**

Work Order: HS17030339 Received by: **JRM**

Checklist completed by: *Cesar A. Lira* eSignature 7-Mar-2017 Date

Reviewed by: *Dane J. Wacasey* eSignature 9-Mar-2017 Date

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.1c/4.6c uc/c	IR#11	
Cooler(s)/Kit(s):	Med. Blue		
Date/Time sample(s) sent to storage:	3/7/2017 8:00pm		
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: No collection time for DUP or Trip Blank; Logged DUP and trip blank for analysis per SSOW.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
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Spring City, PA +1 610 948 4903
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Chain of Custody Form

Page _____ of _____

COC ID: 161440

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	4502201559 ENV749-40	Project Name	55627DM GSHI PXP Hill E.C. Federal	A	8260_W (8260 BTEX)
Work Order		Project Number		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	Angela Bown	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		e-Mail Address		J	

HS17030339
Glenn Springs Holdings, Inc.
55627DM GSHI PXP Hill E.C. Federal

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1	3.2.17	16:00	Water		4	X	X									
2	MW-2	3.2.17	15:45	Water		4	X	X									
3	MW-3	3.2.17	16:15	Water		4	X	X									
4	MW-4	3.2.17	14:20	Water		4	X	X									
5	MW-5	3.2.17	15:30	Water		4	X	X									
6	MW-6	3.2.17	13:30	Water		4	X	X									
7	MW-7	3.2.17	13:50	Water		4	X	X									
8	MW-8	3.2.17	14:45	Water		4	X	X									
9	MW-9	3.2.17	15:15	Water		4	X	X									
10																	

Sampler(s) Please Print & Sign | Shipment Method | Required Turnaround Time: (Check Box) TAT 10 days Other | Results Due Date:

Relinquished by:	Date: 3.6.17	Time:	Received by:	Notes: [GSHI PXP Hill EC Federal 7 TB]	
Relinquished by:	Date:	Time:	Received by (Laboratory): JM 3.7.17 0910	Cooler ID: M.Blue / M.Blue	Cooler Temp: 4.1 / 1.1
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	QC Package: (Check One Box Below) QC Level STD Other:	

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

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

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

Chain of Custody Form

Page _____ of _____

COC ID: 161439

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	4502201559 ENV749-40	Project Name	55627DM GSHI PXP Hill E.C. Federal	A	8260_W (8260 BTEX)
Work Order		Project Number		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	Angela Bown	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		e-Mail Address		J	

HS17030339
Glenn Springs Holdings, Inc.
55627DM GSHI PXP Hill E.C. Federal

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

Sampler(s) Please Print & Sign | Shipment Method | Required Turnaround Time: (Check Box) TAT 10 days Other: | Results Due Date:

Relinquished by:	Date: 3.6.17	Time:	Received by:	Notes: [GSHI PXP Hill EC Federal 7 TB]
Relinquished by:	Date:	Time:	Received by (Laboratory): 3.7.17 0910	Cooler ID: MBL / IR — Cooler Temp: 4.1 / 1.1
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	QC Package: (Check One Box Below) QC Level STD Other:

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

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

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

M. Blue

CUSTODY SEAL

Date: 3.6.17 Time: 17:38

Name:

Company: Tetra Tech

Seal Broken By: SM

Date: 03/07/17

M. Blue MAR 0 7 2017

FedEx
TRK# 0221 6786 7203 7382

TUE – 07 MAR 10:30A
PRIORITY OVERNIGHT

AB SGRA

M. Blue

77099
TX-US IAH

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

September 08, 2017

Angela Bown
Glenn Springs Holdings, Inc.
PO Box 2148

Houston, TX 77252-2148

Work Order: **HS17090049**

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

Dear Angela,

ALS Environmental received 11 sample(s) on Sep 01, 2017 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

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ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS17090049

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS17090049-01	MW-1	Groundwater		30-Aug-2017 14:25	01-Sep-2017 15:20	☐
HS17090049-02	MW-2	Groundwater		30-Aug-2017 14:35	01-Sep-2017 15:20	☐
HS17090049-03	MW-3	Groundwater		30-Aug-2017 14:20	01-Sep-2017 15:20	☐
HS17090049-04	MW-4	Groundwater		30-Aug-2017 15:13	01-Sep-2017 15:20	☐
HS17090049-05	MW-5	Groundwater		30-Aug-2017 15:40	01-Sep-2017 15:20	☐
HS17090049-06	MW-6	Groundwater		30-Aug-2017 14:48	01-Sep-2017 15:20	☐
HS17090049-07	MW-7	Groundwater		30-Aug-2017 15:00	01-Sep-2017 15:20	☐
HS17090049-08	MW-8	Groundwater		30-Aug-2017 15:25	01-Sep-2017 15:20	☐
HS17090049-09	MW-9	Groundwater		30-Aug-2017 15:50	01-Sep-2017 15:20	☐
HS17090049-10	DUP	Groundwater		30-Aug-2017 00:00	01-Sep-2017 15:20	☐
HS17090049-11	Trip Blank	Water		30-Aug-2017 00:00	01-Sep-2017 15:20	☐

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ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS17090049

GCMS Volatiles by Method SW8260

Batch ID: R301018,R301074,R301082

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

WetChemistry by Method E300

Batch ID: R301105

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

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ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-1
Collection Date: 30-Aug-2017 14:25

ANALYTICAL REPORT
WorkOrder:HS17090049
Lab ID:HS17090049-01
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	05-Sep-2017 08:12
Ethylbenzene		U	0.50	5.0	ug/L	1	05-Sep-2017 08:12
Toluene		U	0.50	5.0	ug/L	1	05-Sep-2017 08:12
Xylenes, Total		U	0.50	5.0	ug/L	1	05-Sep-2017 08:12
Surr: 1,2-Dichloroethane-d4	*96.2*			*70-126*	*%REC*	*1*	*05-Sep-2017 08:12*
Surr: 4-Bromofluorobenzene	*100*			*81-113*	*%REC*	*1*	*05-Sep-2017 08:12*
Surr: Dibromofluoromethane	*99.2*			*77-123*	*%REC*	*1*	*05-Sep-2017 08:12*
Surr: Toluene-d8	*106*			*82-127*	*%REC*	*1*	*05-Sep-2017 08:12*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**383**		**2.00**	**5.00**	**mg/L**	10	06-Sep-2017 05:31

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

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ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS17090049
Sample ID: MW-2
Lab ID:HS17090049-02
Collection Date: 30-Aug-2017 14:35
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	05-Sep-2017 08:39
Ethylbenzene		U	0.50	5.0	ug/L	1	05-Sep-2017 08:39
Toluene		U	0.50	5.0	ug/L	1	05-Sep-2017 08:39
Xylenes, Total		U	0.50	5.0	ug/L	1	05-Sep-2017 08:39
Surr: 1,2-Dichloroethane-d4	*99.3*			*70-126*	*%REC*	*1*	*05-Sep-2017 08:39*
Surr: 4-Bromofluorobenzene	*95.3*			*81-113*	*%REC*	*1*	*05-Sep-2017 08:39*
Surr: Dibromofluoromethane	*99.8*			*77-123*	*%REC*	*1*	*05-Sep-2017 08:39*
Surr: Toluene-d8	*101*			*82-127*	*%REC*	*1*	*05-Sep-2017 08:39*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**165**		**2.00**	**5.00**	**mg/L**	10	06-Sep-2017 06:36

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

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ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS17090049
Sample ID: MW-3
Lab ID:HS17090049-03
Collection Date: 30-Aug-2017 14:20
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	05-Sep-2017 09:06
Ethylbenzene		U	0.50	5.0	ug/L	1	05-Sep-2017 09:06
Toluene		U	0.50	5.0	ug/L	1	05-Sep-2017 09:06
Xylenes, Total		U	0.50	5.0	ug/L	1	05-Sep-2017 09:06
Surr: 1,2-Dichloroethane-d4	*94.1*			*70-126*	*%REC*	*1*	*05-Sep-2017 09:06*
Surr: 4-Bromofluorobenzene	*98.7*			*81-113*	*%REC*	*1*	*05-Sep-2017 09:06*
Surr: Dibromofluoromethane	*98.5*			*77-123*	*%REC*	*1*	*05-Sep-2017 09:06*
Surr: Toluene-d8	*105*			*82-127*	*%REC*	*1*	*05-Sep-2017 09:06*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**278**		**2.00**	**5.00**	**mg/L**	10	06-Sep-2017 06:57

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

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ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-4
Collection Date: 30-Aug-2017 15:13

ANALYTICAL REPORT
WorkOrder:HS17090049
Lab ID:HS17090049-04
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	05-Sep-2017 09:33
Ethylbenzene		U	0.50	5.0	ug/L	1	05-Sep-2017 09:33
Toluene		U	0.50	5.0	ug/L	1	05-Sep-2017 09:33
Xylenes, Total		U	0.50	5.0	ug/L	1	05-Sep-2017 09:33
Surr: 1,2-Dichloroethane-d4	*94.9*			*70-126*	*%REC*	*1*	*05-Sep-2017 09:33*
Surr: 4-Bromofluorobenzene	*95.4*			*81-113*	*%REC*	*1*	*05-Sep-2017 09:33*
Surr: Dibromofluoromethane	*98.8*			*77-123*	*%REC*	*1*	*05-Sep-2017 09:33*
Surr: Toluene-d8	*102*			*82-127*	*%REC*	*1*	*05-Sep-2017 09:33*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**479**		**2.00**	**5.00**	**mg/L**	10	06-Sep-2017 07:19

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-5
Collection Date: 30-Aug-2017 15:40

ANALYTICAL REPORT
WorkOrder:HS17090049
Lab ID:HS17090049-05
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	05-Sep-2017 09:59
Ethylbenzene		U	0.50	5.0	ug/L	1	05-Sep-2017 09:59
Toluene		U	0.50	5.0	ug/L	1	05-Sep-2017 09:59
Xylenes, Total		U	0.50	5.0	ug/L	1	05-Sep-2017 09:59
Surr: 1,2-Dichloroethane-d4	*94.9*			*70-126*	*%REC*	*1*	*05-Sep-2017 09:59*
Surr: 4-Bromofluorobenzene	*98.5*			*81-113*	*%REC*	*1*	*05-Sep-2017 09:59*
Surr: Dibromofluoromethane	*95.2*			*77-123*	*%REC*	*1*	*05-Sep-2017 09:59*
Surr: Toluene-d8	*101*			*82-127*	*%REC*	*1*	*05-Sep-2017 09:59*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**750**		**2.00**	**5.00**	**mg/L**	10	06-Sep-2017 07:41

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-6
Collection Date: 30-Aug-2017 14:48

ANALYTICAL REPORT
WorkOrder:HS17090049
Lab ID:HS17090049-06
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	05-Sep-2017 22:57
Ethylbenzene		U	0.50	5.0	ug/L	1	05-Sep-2017 22:57
Toluene		U	0.50	5.0	ug/L	1	05-Sep-2017 22:57
Xylenes, Total		U	0.50	5.0	ug/L	1	05-Sep-2017 22:57
Surr: 1,2-Dichloroethane-d4	*95.9*			*70-126*	*%REC*	*1*	*05-Sep-2017 22:57*
Surr: 4-Bromofluorobenzene	*99.4*			*81-113*	*%REC*	*1*	*05-Sep-2017 22:57*
Surr: Dibromofluoromethane	*97.6*			*77-123*	*%REC*	*1*	*05-Sep-2017 22:57*
Surr: Toluene-d8	*99.7*			*82-127*	*%REC*	*1*	*05-Sep-2017 22:57*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**94.2**		**1.00**	**2.50**	**mg/L**	5	06-Sep-2017 08:02

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7
Collection Date: 30-Aug-2017 15:00

ANALYTICAL REPORT
WorkOrder:HS17090049
Lab ID:HS17090049-07
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	05-Sep-2017 23:24
Ethylbenzene		U	0.50	5.0	ug/L	1	05-Sep-2017 23:24
Toluene		U	0.50	5.0	ug/L	1	05-Sep-2017 23:24
Xylenes, Total		U	0.50	5.0	ug/L	1	05-Sep-2017 23:24
Surr: 1,2-Dichloroethane-d4	*98.0*			*70-126*	*%REC*	*1*	*05-Sep-2017 23:24*
Surr: 4-Bromofluorobenzene	*93.9*			*81-113*	*%REC*	*1*	*05-Sep-2017 23:24*
Surr: Dibromofluoromethane	*102*			*77-123*	*%REC*	*1*	*05-Sep-2017 23:24*
Surr: Toluene-d8	*102*			*82-127*	*%REC*	*1*	*05-Sep-2017 23:24*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**701**		**8.00**	**20.0**	**mg/L**	40	06-Sep-2017 08:24

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-8
Collection Date: 30-Aug-2017 15:25

ANALYTICAL REPORT
WorkOrder:HS17090049
Lab ID:HS17090049-08
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	06-Sep-2017 04:18
Ethylbenzene		U	0.50	5.0	ug/L	1	06-Sep-2017 04:18
Toluene		U	0.50	5.0	ug/L	1	06-Sep-2017 04:18
Xylenes, Total		U	0.50	5.0	ug/L	1	06-Sep-2017 04:18
Surr: 1,2-Dichloroethane-d4	*93.8*			*70-126*	*%REC*	*1*	*06-Sep-2017 04:18*
Surr: 4-Bromofluorobenzene	*101*			*81-113*	*%REC*	*1*	*06-Sep-2017 04:18*
Surr: Dibromofluoromethane	*100*			*77-123*	*%REC*	*1*	*06-Sep-2017 04:18*
Surr: Toluene-d8	*105*			*82-127*	*%REC*	*1*	*06-Sep-2017 04:18*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**182**		**2.00**	**5.00**	**mg/L**	10	06-Sep-2017 08:46

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-9
Collection Date: 30-Aug-2017 15:50

ANALYTICAL REPORT
WorkOrder:HS17090049
Lab ID:HS17090049-09
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	06-Sep-2017 05:12
Ethylbenzene		U	0.50	5.0	ug/L	1	06-Sep-2017 05:12
Toluene		U	0.50	5.0	ug/L	1	06-Sep-2017 05:12
Xylenes, Total		U	0.50	5.0	ug/L	1	06-Sep-2017 05:12
Surr: 1,2-Dichloroethane-d4	*94.6*			*70-126*	*%REC*	*1*	*06-Sep-2017 05:12*
Surr: 4-Bromofluorobenzene	*96.0*			*81-113*	*%REC*	*1*	*06-Sep-2017 05:12*
Surr: Dibromofluoromethane	*98.6*			*77-123*	*%REC*	*1*	*06-Sep-2017 05:12*
Surr: Toluene-d8	*99.9*			*82-127*	*%REC*	*1*	*06-Sep-2017 05:12*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**104**		**2.00**	**5.00**	**mg/L**	10	06-Sep-2017 09:51

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: DUP
Collection Date: 30-Aug-2017 00:00

ANALYTICAL REPORT
WorkOrder:HS17090049
Lab ID:HS17090049-10
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	06-Sep-2017 05:38
Ethylbenzene		U	0.50	5.0	ug/L	1	06-Sep-2017 05:38
Toluene		U	0.50	5.0	ug/L	1	06-Sep-2017 05:38
Xylenes, Total		U	0.50	5.0	ug/L	1	06-Sep-2017 05:38
Surr: 1,2-Dichloroethane-d4	*96.8*			*70-126*	*%REC*	*1*	*06-Sep-2017 05:38*
Surr: 4-Bromofluorobenzene	*93.1*			*81-113*	*%REC*	*1*	*06-Sep-2017 05:38*
Surr: Dibromofluoromethane	*97.8*			*77-123*	*%REC*	*1*	*06-Sep-2017 05:38*
Surr: Toluene-d8	*95.8*			*82-127*	*%REC*	*1*	*06-Sep-2017 05:38*
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**683**		**8.00**	**20.0**	**mg/L**	40	06-Sep-2017 10:13

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS17090049
Sample ID: Trip Blank
Lab ID:HS17090049-11
Collection Date: 30-Aug-2017 00:00
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	06-Sep-2017 04:45
Ethylbenzene		U	0.50	5.0	ug/L	1	06-Sep-2017 04:45
Toluene		U	0.50	5.0	ug/L	1	06-Sep-2017 04:45
Xylenes, Total		U	0.50	5.0	ug/L	1	06-Sep-2017 04:45
Surr: 1,2-Dichloroethane-d4	*92.8*			*70-126*	*%REC*	*1*	*06-Sep-2017 04:45*
Surr: 4-Bromofluorobenzene	*96.9*			*81-113*	*%REC*	*1*	*06-Sep-2017 04:45*
Surr: Dibromofluoromethane	*96.1*			*77-123*	*%REC*	*1*	*06-Sep-2017 04:45*
Surr: Toluene-d8	*95.0*			*82-127*	*%REC*	*1*	*06-Sep-2017 04:45*

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS17090049

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R301018	**Test Name :** VOLATILES - SW8260C			**Matrix:** Groundwater		
HS17090049-01	MW-1	30 Aug 2017 14:25			05 Sep 2017 08:12	1
HS17090049-02	MW-2	30 Aug 2017 14:35			05 Sep 2017 08:39	1
HS17090049-03	MW-3	30 Aug 2017 14:20			05 Sep 2017 09:06	1
HS17090049-04	MW-4	30 Aug 2017 15:13			05 Sep 2017 09:33	1
HS17090049-05	MW-5	30 Aug 2017 15:40			05 Sep 2017 09:59	1
Batch ID R301074	**Test Name :** VOLATILES - SW8260C			**Matrix:** Groundwater		
HS17090049-06	MW-6	30 Aug 2017 14:48			05 Sep 2017 22:57	1
HS17090049-07	MW-7	30 Aug 2017 15:00			05 Sep 2017 23:24	1
Batch ID R301082	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS17090049-11	Trip Blank	30 Aug 2017 00:00			06 Sep 2017 04:45	1
Batch ID R301082	**Test Name :** VOLATILES - SW8260C			**Matrix:** Groundwater		
HS17090049-08	MW-8	30 Aug 2017 15:25			06 Sep 2017 04:18	1
HS17090049-09	MW-9	30 Aug 2017 15:50			06 Sep 2017 05:12	1
HS17090049-10	DUP	30 Aug 2017 00:00			06 Sep 2017 05:38	1
Batch ID R301105	**Test Name :** ANIONS BY E300.0			**Matrix:** Groundwater		
HS17090049-01	MW-1	30 Aug 2017 14:25			06 Sep 2017 05:31	10
HS17090049-02	MW-2	30 Aug 2017 14:35			06 Sep 2017 06:36	10
HS17090049-03	MW-3	30 Aug 2017 14:20			06 Sep 2017 06:57	10
HS17090049-04	MW-4	30 Aug 2017 15:13			06 Sep 2017 07:19	10
HS17090049-05	MW-5	30 Aug 2017 15:40			06 Sep 2017 07:41	10
HS17090049-06	MW-6	30 Aug 2017 14:48			06 Sep 2017 08:02	5
HS17090049-07	MW-7	30 Aug 2017 15:00			06 Sep 2017 08:24	40
HS17090049-08	MW-8	30 Aug 2017 15:25			06 Sep 2017 08:46	10
HS17090049-09	MW-9	30 Aug 2017 15:50			06 Sep 2017 09:51	10
HS17090049-10	DUP	30 Aug 2017 00:00			06 Sep 2017 10:13	40

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS17090049

QC BATCH REPORT

Batch ID: R301018 **Instrument: VOA1** **Method: SW8260**

MBLK Sample ID: **VBLKW-170904** Units: **ug/L** Analysis Date: **05-Sep-2017 02:25**
Client ID: Run ID: **VOA1_301018** SeqNo: **4217336** 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	*46.68*	*0*	*50*	*0*	*93.4*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*49.42*	*0*	*50*	*0*	*98.8*	*82 - 115*				
Surr: Dibromofluoromethane	*46.41*	*0*	*50*	*0*	*92.8*	*73 - 126*				
Surr: Toluene-d8	*53.04*	*0*	*50*	*0*	*106*	*81 - 119*				

LCS Sample ID: **VLCSW-170904** Units: **ug/L** Analysis Date: **05-Sep-2017 01:31**
Client ID: Run ID: **VOA1_301018** SeqNo: **4217335** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	47.71	5.0	50	0	95.4	74 - 120				
Ethylbenzene	46.48	5.0	50	0	93.0	77 - 117				
Toluene	48.72	5.0	50	0	97.4	77 - 118				
Xylenes, Total	143.1	5.0	150	0	95.4	75 - 122				
Surr: 1,2-Dichloroethane-d4	*49.11*	*0*	*50*	*0*	*98.2*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*50.18*	*0*	*50*	*0*	*100*	*82 - 115*				
Surr: Dibromofluoromethane	*46.44*	*0*	*50*	*0*	*92.9*	*73 - 126*				
Surr: Toluene-d8	*48*	*0*	*50*	*0*	*96.0*	*81 - 119*				

MS Sample ID: **HS17090043-04MS** Units: **ug/L** Analysis Date: **05-Sep-2017 03:18**
Client ID: Run ID: **VOA1_301018** SeqNo: **4217338** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	43.9	5.0	50	0	87.8	70 - 127				
Ethylbenzene	40.66	5.0	50	0	81.3	70 - 124				
Toluene	46.18	5.0	50	0	92.4	70 - 123				
Xylenes, Total	128.2	5.0	150	0	85.5	70 - 130				
Surr: 1,2-Dichloroethane-d4	*49.12*	*0*	*50*	*0*	*98.2*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*49.23*	*0*	*50*	*0*	*98.5*	*81 - 113*				
Surr: Dibromofluoromethane	*48.04*	*0*	*50*	*0*	*96.1*	*77 - 123*				
Surr: Toluene-d8	*49.33*	*0*	*50*	*0*	*98.7*	*82 - 127*				

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS17090049

QC BATCH REPORT

Batch ID: R301018 **Instrument: VOA1** **Method: SW8260**

MSD Sample ID: **HS17090043-04MSD** Units: **ug/L** Analysis Date: **05-Sep-2017 03:45**
Client ID: Run ID: **VOA1_301018** SeqNo: **4217339** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	40.96	5.0	50	0	81.9	70 - 127	43.9	6.94	20	
Ethylbenzene	42.18	5.0	50	0	84.4	70 - 124	40.66	3.66	20	
Toluene	46.24	5.0	50	0	92.5	70 - 123	46.18	0.116	20	
Xylenes, Total	134.2	5.0	150	0	89.4	70 - 130	128.2	4.52	20	
Surr: 1,2-Dichloroethane-d4	*51.03*	*0*	*50*	*0*	*102*	*70 - 126*	*49.12*	*3.81*	*20*	
Surr: 4-Bromofluorobenzene	*50.93*	*0*	*50*	*0*	*102*	*81 - 113*	*49.23*	*3.41*	*20*	
Surr: Dibromofluoromethane	*49.04*	*0*	*50*	*0*	*98.1*	*77 - 123*	*48.04*	*2.06*	*20*	
Surr: Toluene-d8	*49.7*	*0*	*50*	*0*	*99.4*	*82 - 127*	*49.33*	*0.757*	*20*	

The following samples were analyzed in this batch: HS17090049-01 HS17090049-02 HS17090049-03 HS17090049-04 HS17090049-05

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

Released to Imaging: 9/20/2021 3:06:37 PM RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS17090049

QC BATCH REPORT

Batch ID: R301074 **Instrument: VOA1** **Method: SW8260**

MBLK Sample ID: **VBLKW-170905** Units: **ug/L** Analysis Date: **05-Sep-2017 14:28**
Client ID: Run ID: **VOA1_301074** SeqNo: **4218217** 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	*47.22*	*0*	*50*	*0*	*94.4*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*50.09*	*0*	*50*	*0*	*100*	*82 - 115*				
Surr: Dibromofluoromethane	*48.33*	*0*	*50*	*0*	*96.7*	*73 - 126*				
Surr: Toluene-d8	*52.79*	*0*	*50*	*0*	*106*	*81 - 119*				

LCS Sample ID: **VLCSW-170905** Units: **ug/L** Analysis Date: **05-Sep-2017 13:34**
Client ID: Run ID: **VOA1_301074** SeqNo: **4218216** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	47.99	5.0	50	0	96.0	74 - 120				
Ethylbenzene	50.16	5.0	50	0	100	77 - 117				
Toluene	53.58	5.0	50	0	107	77 - 118				
Xylenes, Total	158.9	5.0	150	0	106	75 - 122				
Surr: 1,2-Dichloroethane-d4	*50.35*	*0*	*50*	*0*	*101*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*51.33*	*0*	*50*	*0*	*103*	*82 - 115*				
Surr: Dibromofluoromethane	*48.89*	*0*	*50*	*0*	*97.8*	*73 - 126*				
Surr: Toluene-d8	*49.29*	*0*	*50*	*0*	*98.6*	*81 - 119*				

MS Sample ID: **HS17090192-01MS** Units: **ug/L** Analysis Date: **05-Sep-2017 15:48**
Client ID: Run ID: **VOA1_301074** SeqNo: **4218220** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	40.96	5.0	50	0	81.9	70 - 127				
Ethylbenzene	45.64	5.0	50	0	91.3	70 - 124				
Toluene	48.19	5.0	50	0	96.4	70 - 123				
Xylenes, Total	141.1	5.0	150	0	94.1	70 - 130				
Surr: 1,2-Dichloroethane-d4	*47.35*	*0*	*50*	*0*	*94.7*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*52.54*	*0*	*50*	*0*	*105*	*81 - 113*				
Surr: Dibromofluoromethane	*46.79*	*0*	*50*	*0*	*93.6*	*77 - 123*				
Surr: Toluene-d8	*51.72*	*0*	*50*	*0*	*103*	*82 - 127*				

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS17090049

QC BATCH REPORT

Batch ID: R301074 **Instrument: VOA1** **Method: SW8260**

MSD Sample ID: **HS17090192-01MSD** Units: **ug/L** Analysis Date: **05-Sep-2017 16:15**
Client ID: Run ID: **VOA1_301074** SeqNo: **4218221** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	44.73	5.0	50	0	89.5	70 - 127	40.96	8.8	20	
Ethylbenzene	43.27	5.0	50	0	86.5	70 - 124	45.64	5.32	20	
Toluene	47.38	5.0	50	0	94.8	70 - 123	48.19	1.71	20	
Xylenes, Total	131.1	5.0	150	0	87.4	70 - 130	141.1	7.35	20	
Surr: 1,2-Dichloroethane-d4	*49.55*	*0*	*50*	*0*	*99.1*	*70 - 126*	*47.35*	*4.52*	*20*	
Surr: 4-Bromofluorobenzene	*52*	*0*	*50*	*0*	*104*	*81 - 113*	*52.54*	*1.04*	*20*	
Surr: Dibromofluoromethane	*47.72*	*0*	*50*	*0*	*95.4*	*77 - 123*	*46.79*	*1.95*	*20*	
Surr: Toluene-d8	*48.94*	*0*	*50*	*0*	*97.9*	*82 - 127*	*51.72*	*5.53*	*20*	

The following samples were analyzed in this batch: HS17090049-06 HS17090049-07

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

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ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS17090049

QC BATCH REPORT

Batch ID: R301082 **Instrument: VOA1** **Method: SW8260**

MBLK Sample ID: **VBLKW-170905** Units: **ug/L** Analysis Date: **06-Sep-2017 02:31**
Client ID: Run ID: **VOA1_301082** SeqNo: **4218326** 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	*46.72*	*0*	*50*	*0*	*93.4*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*49.86*	*0*	*50*	*0*	*99.7*	*82 - 115*				
Surr: Dibromofluoromethane	*48.45*	*0*	*50*	*0*	*96.9*	*73 - 126*				
Surr: Toluene-d8	*50.23*	*0*	*50*	*0*	*100*	*81 - 119*				

LCS Sample ID: **VLCSW-170905** Units: **ug/L** Analysis Date: **06-Sep-2017 01:38**
Client ID: Run ID: **VOA1_301082** SeqNo: **4218325** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.46	5.0	50	0	96.9	74 - 120				
Ethylbenzene	46.32	5.0	50	0	92.6	77 - 117				
Toluene	49.63	5.0	50	0	99.3	77 - 118				
Xylenes, Total	147.2	5.0	150	0	98.1	75 - 122				
Surr: 1,2-Dichloroethane-d4	*49.69*	*0*	*50*	*0*	*99.4*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*47.66*	*0*	*50*	*0*	*95.3*	*82 - 115*				
Surr: Dibromofluoromethane	*47.39*	*0*	*50*	*0*	*94.8*	*73 - 126*				
Surr: Toluene-d8	*46.84*	*0*	*50*	*0*	*93.7*	*81 - 119*				

MS Sample ID: **HS17081451-01MS** Units: **ug/L** Analysis Date: **06-Sep-2017 03:25**
Client ID: Run ID: **VOA1_301082** SeqNo: **4218328** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	43.55	5.0	50	0	87.1	70 - 127				
Ethylbenzene	44.45	5.0	50	0	88.9	70 - 124				
Toluene	47.98	5.0	50	0	96.0	70 - 123				
Xylenes, Total	131.8	5.0	150	0	87.9	70 - 130				
Surr: 1,2-Dichloroethane-d4	*44.59*	*0*	*50*	*0*	*89.2*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*48.28*	*0*	*50*	*0*	*96.6*	*81 - 113*				
Surr: Dibromofluoromethane	*48.26*	*0*	*50*	*0*	*96.5*	*77 - 123*				
Surr: Toluene-d8	*47.05*	*0*	*50*	*0*	*94.1*	*82 - 127*				

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

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ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS17090049

QC BATCH REPORT

Batch ID: R301082 **Instrument: VOA1** **Method: SW8260**

MSD Sample ID: **HS17081451-01MSD** Units: **ug/L** Analysis Date: **06-Sep-2017 03:51**
Client ID: Run ID: **VOA1_301082** SeqNo: **4218329** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	41.19	5.0	50	0	82.4	70 - 127	43.55	5.58	20	
Ethylbenzene	42.87	5.0	50	0	85.7	70 - 124	44.45	3.61	20	
Toluene	47.22	5.0	50	0	94.4	70 - 123	47.98	1.58	20	
Xylenes, Total	138.5	5.0	150	0	92.3	70 - 130	131.8	4.93	20	
Surr: 1,2-Dichloroethane-d4	*47.04*	*0*	*50*	*0*	*94.1*	*70 - 126*	*44.59*	*5.33*	*20*	
Surr: 4-Bromofluorobenzene	*49.44*	*0*	*50*	*0*	*98.9*	*81 - 113*	*48.28*	*2.37*	*20*	
Surr: Dibromofluoromethane	*47.93*	*0*	*50*	*0*	*95.9*	*77 - 123*	*48.26*	*0.686*	*20*	
Surr: Toluene-d8	*48.85*	*0*	*50*	*0*	*97.7*	*82 - 127*	*47.05*	*3.74*	*20*	

The following samples were analyzed in this batch: HS17090049-08 HS17090049-09 HS17090049-10 HS17090049-11

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

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ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS17090049

QC BATCH REPORT

Batch ID: R301105 **Instrument: ICS3K2** **Method: E300**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW2-090517** Units: **mg/L** Analysis Date: **06-Sep-2017 03:42**										
Client ID: Run ID: **ICS3K2_301105** SeqNo: **4218725** PrepDate: DF: **1**										
Chloride	U	0.500								
LCS Sample ID: **WLCSW2-090517** Units: **mg/L** Analysis Date: **06-Sep-2017 04:04**										
Client ID: Run ID: **ICS3K2_301105** SeqNo: **4218726** PrepDate: DF: **1**										
Chloride	19.56	0.500	20	0	97.8	90 - 110				
LCSD Sample ID: **WLCSDW2-090517** Units: **mg/L** Analysis Date: **06-Sep-2017 04:25**										
Client ID: Run ID: **ICS3K2_301105** SeqNo: **4218727** PrepDate: DF: **1**										
Chloride	19.44	0.500	20	0	97.2	90 - 110	19.56	0.621	20	
MS Sample ID: **HS17090053-01MS** Units: **mg/L** Analysis Date: **06-Sep-2017 01:32**										
Client ID: Run ID: **ICS3K2_301105** SeqNo: **4218719** PrepDate: DF: **5**										
Chloride	137.2	2.50	50	85.51	103	80 - 120				
MS Sample ID: **HS17090049-01MS** Units: **mg/L** Analysis Date: **06-Sep-2017 05:52**										
Client ID: **MW-1** Run ID: **ICS3K2_301105** SeqNo: **4218731** PrepDate: DF: **10**										
Chloride	479.5	5.00	100	383.4	96.1	80 - 120				
MSD Sample ID: **HS17090053-01MSD** Units: **mg/L** Analysis Date: **06-Sep-2017 01:54**										
Client ID: Run ID: **ICS3K2_301105** SeqNo: **4218720** PrepDate: DF: **5**										
Chloride	136.5	2.50	50	85.51	102	80 - 120	137.2	0.547	20	

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

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ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS17090049

QC BATCH REPORT

Batch ID: R301105 **Instrument: ICS3K2** **Method: E300**

MSD Sample ID: **HS17090049-01MSD** Units: **mg/L** Analysis Date: **06-Sep-2017 06:14**
Client ID: **MW-1** Run ID: **ICS3K2_301105** SeqNo: **4218732** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	483.1	5.00	100	383.4	99.8	80 - 120	479.5	0.755	20	

The following samples were analyzed in this batch:

HS17090049-01	HS17090049-02	HS17090049-03	HS17090049-04
HS17090049-05	HS17090049-06	HS17090049-07	HS17090049-08
HS17090049-09	HS17090049-10		

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

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ALS Group USA, Corp Date: 08-Sep-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS17090049**

QUALIFIERS, ACRONYMS, UNITS

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

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

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

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ALS Group USA, Corp Date: 08-Sep-17

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	17-027-0	27-Mar-2018
California	2919 2016-2018	31-Jul-2018
Illinois	004112	09-May-2018
Kentucky	123043	30-Apr-2018
Louisiana	03087 2017-2017	30-Jun-2018
North Carolina	624-2017	31-Dec-2017
North Dakota	R193 2017-2017	30-Apr-2018
Texas	T104704231-17-19	30-Apr-2018

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ALS Group USA, Corp Date: 08-Sep-17

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **01-Sep-2017 15:20**

Work Order: HS17090049 Received by: **JRM**

Checklist completed by: *Nilesh D. Ranchod* eSignature 1-Sep-2017 Date

Reviewed by: *Dane J. Wacasey* eSignature 7-Sep-2017 Date

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	0.6C / 1.1C UC/C	IR# 15	
Cooler(s)/Kit(s):	43065		
Date/Time sample(s) sent to storage:	09/01/2017 8:00PM		
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 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070

Chain of Custody Form

Page _____ of _____

COC ID: 166118

HS17090049

NV

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

Customer Information		Project Information		ALS Project Manager:
Purchase Order	4502201559 ENV749-40	Project Name	55627DM GSHI PXP Hill EC Fed 7 TB	
Work Order		Project Number		
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.	
Send Report To	Angela Bown	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	Angela.Bown@ghd.com	e-Mail Address		

A	8260_W (8260 BTEX)
B	300_W (300 Chloride)
C	8260_W (8260 BTEX-Trip Blank)
D	
E	
F	
G	
H	
I	
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1	8/30	1425	Groundwa	1,8	4	X	X									
2	MW-2	8/30	1435	Groundwa	1,8	4	X	X									
3	MW-3	8/30	1420	Groundwa	1,8	4	X	X									
4	MW-4	8/30	1513	Groundwa	1,8	4	X	X									
5	MW-5	8/30	1540	Groundwa	1,8	4	X	X									
6	MW-6	8/30	1448	Groundwa	1,8	4	X	X									
7	MW-7	8/30	1500	Groundwa	1,8	4	X	X									
8	MW-8	8/30	1525	Groundwa	1,8	4	X	X									
9	MW-9	8/30	1550	Groundwa	1,8	4	X	X									
10	DUP	8/30		Groundwa	1,8	4	X	X									

Sampler(s) Please Print & Sign

Shipment Method: FedEx

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other _____

Results Due Date:

Relinquished by: Date: 8/31/17 Time: 1600 Received by:

Relinquished by: Date: Time: Received by (Laboratory):

Logged by (Laboratory): Date: Time: Checked by (Laboratory): 9.1.17 1520

Notes: [GSHI PXP Hill EC Federal 7 TB]

Cooler ID	Cooler Temp.
93067	0.6
11415	
68405	

QC Package: (Check One Box Below)

- [X] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

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

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

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Chain of Custody Form

Page _____ of _____

COC ID: 166117

HS17090049

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

ALS Project Manager:

Customer Information		Project Information	
Purchase Order	4502201559 ENV749-40	Project Name	55627DM GSHI PXP Hill EC Fed 7 TB
Work Order		Project Number	
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.
Send Report To	Angela Bown	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	Angela.Bown@ghd.com	e-Mail Address	

A	8260_W (8260 BTEX)
B	300_W (300 Chloride)
C	8260_W (8260 BTEX-Trip Blank)
D	
E	
F	
G	
H	
I	
J	

No.	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																	
10																	

Sampler(s) Please Print & Sign

Shipment Method: FedEx

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other

Results Due Date:

Relinquished by: Rhonda Hale	Date: 8/31/17	Time: 1600	Received by:
Relinquished by:	Date:	Time:	Received by (Laboratory):
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: [GSHI PXP Hill EC Federal 7 TB]

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)

- [X] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

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

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

43065

CUSTODY SEAL

Date: 8/31/17 Time: 1600
Name: Sterling Beadle
Company: Tetra Tech

Seal Broken By:

Date: 09/01/17

43065 SEP 0 1 2017

FedEx.
TRK# 0221 7376 9748 0335

FRI - 01 SEP 10:30A
PRIORITY OVERNIGHT

AB SGRA

43065

77099
TX-US
IAH

FID 638561 31AUG17 MAFA 546C1/FF19/0C8A

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

March 09, 2018

James Abston
Glenn Springs Holdings, Inc.
PO Box 2148

Houston, TX 77252-2148

Work Order: **HS18021255**

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

Dear James,

ALS Environmental received 11 sample(s) on Feb 24, 2018 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 Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS18021255

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS18021255-01	MW-1	Groundwater		22-Feb-2018 11:10	24-Feb-2018 09:15	☐
HS18021255-02	MW-2	Groundwater		22-Feb-2018 11:10	24-Feb-2018 09:15	☐
HS18021255-03	MW-3	Groundwater		22-Feb-2018 12:45	24-Feb-2018 09:15	☐
HS18021255-04	MW-4	Groundwater		22-Feb-2018 12:00	24-Feb-2018 09:15	☐
HS18021255-05	MW-5	Groundwater		22-Feb-2018 13:05	24-Feb-2018 09:15	☐
HS18021255-06	MW-6	Groundwater		22-Feb-2018 11:40	24-Feb-2018 09:15	☐
HS18021255-07	MW-7	Groundwater		22-Feb-2018 12:05	24-Feb-2018 09:15	☐
HS18021255-08	MW-8	Groundwater		22-Feb-2018 13:30	24-Feb-2018 09:15	☐
HS18021255-09	MW-9	Groundwater		22-Feb-2018 12:35	24-Feb-2018 09:15	☐
HS18021255-10	DUP	Groundwater		22-Feb-2018 00:00	24-Feb-2018 09:15	☐
HS18021255-11	Trip Blank	Water	ALS 020218-16	22-Feb-2018 00:00	24-Feb-2018 09:15	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS18021255

GCMS Volatiles by Method SW8260

Batch ID: R311585,R311722

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

Batch ID: R311659

Sample ID: HS18021108-08MS

- MS and MSD are for an unrelated sample

WetChemistry by Method E300

Batch ID: R312266

Sample ID: HS18021252-05MS

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

Batch ID: R312270

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

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ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-1
Collection Date: 22-Feb-2018 11:10

ANALYTICAL REPORT
WorkOrder:HS18021255
Lab ID:HS18021255-01
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	27-Feb-2018 19:32
Ethylbenzene		U	0.50	5.0	ug/L	1	27-Feb-2018 19:32
Toluene		U	0.50	5.0	ug/L	1	27-Feb-2018 19:32
Xylenes, Total		U	0.50	5.0	ug/L	1	27-Feb-2018 19:32
Surr: 1,2-Dichloroethane-d4	*89.5*			*70-126*	*%REC*	*1*	*27-Feb-2018 19:32*
Surr: 4-Bromofluorobenzene	*102*			*82-124*	*%REC*	*1*	*27-Feb-2018 19:32*
Surr: Dibromofluoromethane	*90.0*			*77-123*	*%REC*	*1*	*27-Feb-2018 19:32*
Surr: Toluene-d8	*108*			*82-127*	*%REC*	*1*	*27-Feb-2018 19:32*
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**407**		**2.00**	**5.00**	**mg/L**	10	09-Mar-2018 01:26

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-2
Collection Date: 22-Feb-2018 11:10

ANALYTICAL REPORT
WorkOrder:HS18021255
Lab ID:HS18021255-02
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	27-Feb-2018 19:59
Ethylbenzene		U	0.50	5.0	ug/L	1	27-Feb-2018 19:59
Toluene		U	0.50	5.0	ug/L	1	27-Feb-2018 19:59
Xylenes, Total		U	0.50	5.0	ug/L	1	27-Feb-2018 19:59
Surr: 1,2-Dichloroethane-d4	*85.6*			*70-126*	*%REC*	*1*	*27-Feb-2018 19:59*
Surr: 4-Bromofluorobenzene	*93.7*			*82-124*	*%REC*	*1*	*27-Feb-2018 19:59*
Surr: Dibromofluoromethane	*92.2*			*77-123*	*%REC*	*1*	*27-Feb-2018 19:59*
Surr: Toluene-d8	*107*			*82-127*	*%REC*	*1*	*27-Feb-2018 19:59*
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**171**		**2.00**	**5.00**	**mg/L**	10	09-Mar-2018 01:47

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS18021255
Sample ID: MW-3
Lab ID:HS18021255-03
Collection Date: 22-Feb-2018 12:45
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	27-Feb-2018 20:26
Ethylbenzene		U	0.50	5.0	ug/L	1	27-Feb-2018 20:26
Toluene		U	0.50	5.0	ug/L	1	27-Feb-2018 20:26
Xylenes, Total		U	0.50	5.0	ug/L	1	27-Feb-2018 20:26
Surr: 1,2-Dichloroethane-d4	*92.5*			*70-126*	*%REC*	*1*	*27-Feb-2018 20:26*
Surr: 4-Bromofluorobenzene	*94.5*			*82-124*	*%REC*	*1*	*27-Feb-2018 20:26*
Surr: Dibromofluoromethane	*95.2*			*77-123*	*%REC*	*1*	*27-Feb-2018 20:26*
Surr: Toluene-d8	*91.5*			*82-127*	*%REC*	*1*	*27-Feb-2018 20:26*
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**302**		**2.00**	**5.00**	**mg/L**	10	09-Mar-2018 02:53

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS18021255
Sample ID: MW-4
Lab ID:HS18021255-04
Collection Date: 22-Feb-2018 12:00
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	27-Feb-2018 20:53
Ethylbenzene		U	0.50	5.0	ug/L	1	27-Feb-2018 20:53
Toluene		U	0.50	5.0	ug/L	1	27-Feb-2018 20:53
Xylenes, Total		U	0.50	5.0	ug/L	1	27-Feb-2018 20:53
Surr: 1,2-Dichloroethane-d4	*88.1*			*70-126*	*%REC*	*1*	*27-Feb-2018 20:53*
Surr: 4-Bromofluorobenzene	*86.3*			*82-124*	*%REC*	*1*	*27-Feb-2018 20:53*
Surr: Dibromofluoromethane	*94.3*			*77-123*	*%REC*	*1*	*27-Feb-2018 20:53*
Surr: Toluene-d8	*101*			*82-127*	*%REC*	*1*	*27-Feb-2018 20:53*
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**494**		**2.00**	**5.00**	**mg/L**	10	09-Mar-2018 03:14

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS18021255
Sample ID: MW-5
Lab ID:HS18021255-05
Collection Date: 22-Feb-2018 13:05
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	27-Feb-2018 21:19
Ethylbenzene		U	0.50	5.0	ug/L	1	27-Feb-2018 21:19
Toluene		U	0.50	5.0	ug/L	1	27-Feb-2018 21:19
Xylenes, Total		U	0.50	5.0	ug/L	1	27-Feb-2018 21:19
Surr: 1,2-Dichloroethane-d4	*90.7*			*70-126*	*%REC*	*1*	*27-Feb-2018 21:19*
Surr: 4-Bromofluorobenzene	*94.5*			*82-124*	*%REC*	*1*	*27-Feb-2018 21:19*
Surr: Dibromofluoromethane	*100*			*77-123*	*%REC*	*1*	*27-Feb-2018 21:19*
Surr: Toluene-d8	*99.8*			*82-127*	*%REC*	*1*	*27-Feb-2018 21:19*
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**653**		**2.00**	**5.00**	**mg/L**	10	08-Mar-2018 21:51

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

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ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-6
Collection Date: 22-Feb-2018 11:40

ANALYTICAL REPORT
WorkOrder:HS18021255
Lab ID:HS18021255-06
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	27-Feb-2018 21:46
Ethylbenzene		U	0.50	5.0	ug/L	1	27-Feb-2018 21:46
Toluene		U	0.50	5.0	ug/L	1	27-Feb-2018 21:46
Xylenes, Total		U	0.50	5.0	ug/L	1	27-Feb-2018 21:46
Surr: 1,2-Dichloroethane-d4	*88.9*			*70-126*	*%REC*	*1*	*27-Feb-2018 21:46*
Surr: 4-Bromofluorobenzene	*94.4*			*82-124*	*%REC*	*1*	*27-Feb-2018 21:46*
Surr: Dibromofluoromethane	*95.5*			*77-123*	*%REC*	*1*	*27-Feb-2018 21:46*
Surr: Toluene-d8	*101*			*82-127*	*%REC*	*1*	*27-Feb-2018 21:46*
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**100**		**2.00**	**5.00**	**mg/L**	10	08-Mar-2018 22:05

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7
Collection Date: 22-Feb-2018 12:05

ANALYTICAL REPORT
WorkOrder:HS18021255
Lab ID:HS18021255-07
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	27-Feb-2018 22:13
Ethylbenzene		U	0.50	5.0	ug/L	1	27-Feb-2018 22:13
Toluene		U	0.50	5.0	ug/L	1	27-Feb-2018 22:13
Xylenes, Total		U	0.50	5.0	ug/L	1	27-Feb-2018 22:13
Surr: 1,2-Dichloroethane-d4	*89.8*			*70-126*	*%REC*	*1*	*27-Feb-2018 22:13*
Surr: 4-Bromofluorobenzene	*99.3*			*82-124*	*%REC*	*1*	*27-Feb-2018 22:13*
Surr: Dibromofluoromethane	*95.8*			*77-123*	*%REC*	*1*	*27-Feb-2018 22:13*
Surr: Toluene-d8	*110*			*82-127*	*%REC*	*1*	*27-Feb-2018 22:13*
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**772**		**2.00**	**5.00**	**mg/L**	10	08-Mar-2018 22:20

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-8
Collection Date: 22-Feb-2018 13:30

ANALYTICAL REPORT
WorkOrder:HS18021255
Lab ID:HS18021255-08
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	27-Feb-2018 22:39
Ethylbenzene		U	0.50	5.0	ug/L	1	27-Feb-2018 22:39
Toluene		U	0.50	5.0	ug/L	1	27-Feb-2018 22:39
Xylenes, Total		U	0.50	5.0	ug/L	1	27-Feb-2018 22:39
Surr: 1,2-Dichloroethane-d4	*89.9*			*70-126*	*%REC*	*1*	*27-Feb-2018 22:39*
Surr: 4-Bromofluorobenzene	*98.9*			*82-124*	*%REC*	*1*	*27-Feb-2018 22:39*
Surr: Dibromofluoromethane	*93.4*			*77-123*	*%REC*	*1*	*27-Feb-2018 22:39*
Surr: Toluene-d8	*103*			*82-127*	*%REC*	*1*	*27-Feb-2018 22:39*
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**179**		**2.00**	**5.00**	**mg/L**	10	08-Mar-2018 22:34

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-9
Collection Date: 22-Feb-2018 12:35

ANALYTICAL REPORT
WorkOrder:HS18021255
Lab ID:HS18021255-09
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	27-Feb-2018 18:36
Ethylbenzene		U	0.50	5.0	ug/L	1	27-Feb-2018 18:36
Toluene		U	0.50	5.0	ug/L	1	27-Feb-2018 18:36
Xylenes, Total		U	0.50	5.0	ug/L	1	27-Feb-2018 18:36
Surr: 1,2-Dichloroethane-d4	*76.0*			*70-126*	*%REC*	*1*	*27-Feb-2018 18:36*
Surr: 4-Bromofluorobenzene	*87.0*			*82-124*	*%REC*	*1*	*27-Feb-2018 18:36*
Surr: Dibromofluoromethane	*85.2*			*77-123*	*%REC*	*1*	*27-Feb-2018 18:36*
Surr: Toluene-d8	*91.2*			*82-127*	*%REC*	*1*	*27-Feb-2018 18:36*
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**113**		**2.00**	**5.00**	**mg/L**	10	08-Mar-2018 22:49

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: DUP
Collection Date: 22-Feb-2018 00:00

ANALYTICAL REPORT
WorkOrder:HS18021255
Lab ID:HS18021255-10
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	28-Feb-2018 12:26
Ethylbenzene		U	0.50	5.0	ug/L	1	28-Feb-2018 12:26
Toluene		U	0.50	5.0	ug/L	1	28-Feb-2018 12:26
Xylenes, Total		U	0.50	5.0	ug/L	1	28-Feb-2018 12:26
Surr: 1,2-Dichloroethane-d4	*95.6*			*70-126*	*%REC*	*1*	*28-Feb-2018 12:26*
Surr: 4-Bromofluorobenzene	*105*			*82-124*	*%REC*	*1*	*28-Feb-2018 12:26*
Surr: Dibromofluoromethane	*102*			*77-123*	*%REC*	*1*	*28-Feb-2018 12:26*
Surr: Toluene-d8	*103*			*82-127*	*%REC*	*1*	*28-Feb-2018 12:26*
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**781**		**2.00**	**5.00**	**mg/L**	10	08-Mar-2018 23:04

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: Trip Blank
Collection Date: 22-Feb-2018 00:00

ANALYTICAL REPORT
WorkOrder:HS18021255
Lab ID:HS18021255-11
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	27-Feb-2018 18:39
Ethylbenzene		U	0.50	5.0	ug/L	1	27-Feb-2018 18:39
Toluene		U	0.50	5.0	ug/L	1	27-Feb-2018 18:39
Xylenes, Total		U	0.50	5.0	ug/L	1	27-Feb-2018 18:39
Surr: 1,2-Dichloroethane-d4	*89.0*			*70-126*	*%REC*	*1*	*27-Feb-2018 18:39*
Surr: 4-Bromofluorobenzene	*95.2*			*82-124*	*%REC*	*1*	*27-Feb-2018 18:39*
Surr: Dibromofluoromethane	*97.7*			*77-123*	*%REC*	*1*	*27-Feb-2018 18:39*
Surr: Toluene-d8	*111*			*82-127*	*%REC*	*1*	*27-Feb-2018 18:39*

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18021255

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R311585	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS18021255-11	Trip Blank	22 Feb 2018 00:00			27 Feb 2018 18:39	1
Batch ID R311585	**Test Name :** VOLATILES - SW8260C			**Matrix:** Groundwater		
HS18021255-01	MW-1	22 Feb 2018 11:10			27 Feb 2018 19:32	1
HS18021255-02	MW-2	22 Feb 2018 11:10			27 Feb 2018 19:59	1
HS18021255-03	MW-3	22 Feb 2018 12:45			27 Feb 2018 20:26	1
HS18021255-04	MW-4	22 Feb 2018 12:00			27 Feb 2018 20:53	1
HS18021255-05	MW-5	22 Feb 2018 13:05			27 Feb 2018 21:19	1
HS18021255-06	MW-6	22 Feb 2018 11:40			27 Feb 2018 21:46	1
HS18021255-07	MW-7	22 Feb 2018 12:05			27 Feb 2018 22:13	1
HS18021255-08	MW-8	22 Feb 2018 13:30			27 Feb 2018 22:39	1
Batch ID R311659	**Test Name :** VOLATILES - SW8260C			**Matrix:** Groundwater		
HS18021255-09	MW-9	22 Feb 2018 12:35			27 Feb 2018 18:36	1
Batch ID R311722	**Test Name :** VOLATILES - SW8260C			**Matrix:** Groundwater		
HS18021255-10	DUP	22 Feb 2018 00:00			28 Feb 2018 12:26	1
Batch ID R312266	**Test Name :** ANIONS BY E300.0			**Matrix:** Groundwater		
HS18021255-05	MW-5	22 Feb 2018 13:05			08 Mar 2018 21:51	10
HS18021255-06	MW-6	22 Feb 2018 11:40			08 Mar 2018 22:05	10
HS18021255-07	MW-7	22 Feb 2018 12:05			08 Mar 2018 22:20	10
HS18021255-08	MW-8	22 Feb 2018 13:30			08 Mar 2018 22:34	10
HS18021255-09	MW-9	22 Feb 2018 12:35			08 Mar 2018 22:49	10
HS18021255-10	DUP	22 Feb 2018 00:00			08 Mar 2018 23:04	10
Batch ID R312270	**Test Name :** ANIONS BY E300.0			**Matrix:** Groundwater		
HS18021255-01	MW-1	22 Feb 2018 11:10			09 Mar 2018 01:26	10
HS18021255-02	MW-2	22 Feb 2018 11:10			09 Mar 2018 01:47	10
HS18021255-03	MW-3	22 Feb 2018 12:45			09 Mar 2018 02:53	10
HS18021255-04	MW-4	22 Feb 2018 12:00			09 Mar 2018 03:14	10

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18021255

QC BATCH REPORT

Batch ID: R311585 **Instrument: VOA1** **Method: SW8260**

MBLK Sample ID: **VBLKW-180227** Units: **ug/L** Analysis Date: **27-Feb-2018 13:17**
Client ID: Run ID: **VOA1_311585** SeqNo: **4454035** 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	*49.86*	*0*	*50*	*0*	*99.7*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*49.58*	*0*	*50*	*0*	*99.2*	*83 - 122*				
Surr: Dibromofluoromethane	*49.54*	*0*	*50*	*0*	*99.1*	*73 - 126*				
Surr: Toluene-d8	*48.42*	*0*	*50*	*0*	*96.8*	*81 - 119*				

LCS Sample ID: **VLCSW-180227** Units: **ug/L** Analysis Date: **27-Feb-2018 12:23**
Client ID: Run ID: **VOA1_311585** SeqNo: **4454034** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	41.56	5.0	50	0	83.1	74 - 120				
Ethylbenzene	42.44	5.0	50	0	84.9	77 - 117				
Toluene	40.69	5.0	50	0	81.4	77 - 118				
Xylenes, Total	135.7	5.0	150	0	90.4	75 - 122				
Surr: 1,2-Dichloroethane-d4	*49.37*	*0*	*50*	*0*	*98.7*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*48.01*	*0*	*50*	*0*	*96.0*	*83 - 122*				
Surr: Dibromofluoromethane	*49.97*	*0*	*50*	*0*	*99.9*	*73 - 126*				
Surr: Toluene-d8	*46.71*	*0*	*50*	*0*	*93.4*	*81 - 119*				

MS Sample ID: **HS18021252-05MS** Units: **ug/L** Analysis Date: **27-Feb-2018 15:31**
Client ID: Run ID: **VOA1_311585** SeqNo: **4454401** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.81	5.0	50	0	97.6	70 - 127				
Ethylbenzene	47.42	5.0	50	0	94.8	70 - 124				
Toluene	46.65	5.0	50	0	93.3	70 - 123				
Xylenes, Total	138.3	5.0	150	0	92.2	70 - 130				
Surr: 1,2-Dichloroethane-d4	*47.7*	*0*	*50*	*0*	*95.4*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*51.09*	*0*	*50*	*0*	*102*	*82 - 124*				
Surr: Dibromofluoromethane	*46.41*	*0*	*50*	*0*	*92.8*	*77 - 123*				
Surr: Toluene-d8	*49.42*	*0*	*50*	*0*	*98.8*	*82 - 127*				

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18021255

QC BATCH REPORT

Batch ID: R311585 **Instrument: VOA1** **Method: SW8260**

MSD Sample ID: **HS18021252-05MSD** Units: **ug/L** Analysis Date: **27-Feb-2018 15:58**
Client ID: Run ID: **VOA1_311585** SeqNo: **4454402** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	47.06	5.0	50	0	94.1	70 - 127	48.81	3.65	20	
Ethylbenzene	44.43	5.0	50	0	88.9	70 - 124	47.42	6.5	20	
Toluene	43.79	5.0	50	0	87.6	70 - 123	46.65	6.31	20	
Xylenes, Total	136.2	5.0	150	0	90.8	70 - 130	138.3	1.56	20	
Surr: 1,2-Dichloroethane-d4	*51.37*	*0*	*50*	*0*	*103*	*70 - 126*	*47.7*	*7.42*	*20*	
Surr: 4-Bromofluorobenzene	*47.72*	*0*	*50*	*0*	*95.4*	*82 - 124*	*51.09*	*6.82*	*20*	
Surr: Dibromofluoromethane	*46.61*	*0*	*50*	*0*	*93.2*	*77 - 123*	*46.41*	*0.434*	*20*	
Surr: Toluene-d8	*48.64*	*0*	*50*	*0*	*97.3*	*82 - 127*	*49.42*	*1.61*	*20*	

The following samples were analyzed in this batch: HS18021255-01 HS18021255-02 HS18021255-03 HS18021255-04 HS18021255-05 HS18021255-06 HS18021255-07 HS18021255-08 HS18021255-11

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

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ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18021255

QC BATCH REPORT

Batch ID: R311659 **Instrument: VOA6** **Method: SW8260**

MBLK Sample ID: **VBLKW-180227** Units: **ug/L** Analysis Date: **27-Feb-2018 13:19**
Client ID: Run ID: **VOA6_311659** SeqNo: **4455213** 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	*48.72*	*0*	*50*	*0*	*97.4*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*46.13*	*0*	*50*	*0*	*92.3*	*83 - 122*				
Surr: Dibromofluoromethane	*47.79*	*0*	*50*	*0*	*95.6*	*73 - 126*				
Surr: Toluene-d8	*47.59*	*0*	*50*	*0*	*95.2*	*81 - 119*				

LCS Sample ID: **VLCSW-180227** Units: **ug/L** Analysis Date: **27-Feb-2018 12:06**
Client ID: Run ID: **VOA6_311659** SeqNo: **4455212** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	47.1	5.0	50	0	94.2	74 - 120				
Ethylbenzene	46.53	5.0	50	0	93.1	77 - 117				
Toluene	51.85	5.0	50	0	104	77 - 118				
Xylenes, Total	137.9	5.0	150	0	91.9	75 - 122				
Surr: 1,2-Dichloroethane-d4	*45.3*	*0*	*50*	*0*	*90.6*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*46.91*	*0*	*50*	*0*	*93.8*	*83 - 122*				
Surr: Dibromofluoromethane	*45.53*	*0*	*50*	*0*	*91.1*	*73 - 126*				
Surr: Toluene-d8	*48*	*0*	*50*	*0*	*96.0*	*81 - 119*				

MS Sample ID: **HS18021108-08MS** Units: **ug/L** Analysis Date: **27-Feb-2018 14:32**
Client ID: Run ID: **VOA6_311659** SeqNo: **4455216** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	36.53	5.0	50	0	73.1	70 - 127				
Ethylbenzene	43.72	5.0	50	0	87.4	70 - 124				
Toluene	45.69	5.0	50	0	91.4	70 - 123				
Xylenes, Total	132.6	5.0	150	0	88.4	70 - 130				
Surr: 1,2-Dichloroethane-d4	*34.5*	*0*	*50*	*0*	*69.0*	*70 - 126*				S
Surr: 4-Bromofluorobenzene	*44.62*	*0*	*50*	*0*	*89.2*	*82 - 124*				
Surr: Dibromofluoromethane	*37.53*	*0*	*50*	*0*	*75.1*	*77 - 123*				S
Surr: Toluene-d8	*44.93*	*0*	*50*	*0*	*89.9*	*82 - 127*				

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18021255

QC BATCH REPORT

Batch ID: R311659 **Instrument: VOA6** **Method: SW8260**

MSD Sample ID: **HS18021108-08MSD** Units: **ug/L** Analysis Date: **27-Feb-2018 14:57**
Client ID: Run ID: **VOA6_311659** SeqNo: **4455217** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	42.06	5.0	50	0	84.1	70 - 127	36.53	14.1	20	
Ethylbenzene	42.12	5.0	50	0	84.2	70 - 124	43.72	3.74	20	
Toluene	48.86	5.0	50	0	97.7	70 - 123	45.69	6.69	20	
Xylenes, Total	127.2	5.0	150	0	84.8	70 - 130	132.6	4.14	20	
Surr: 1,2-Dichloroethane-d4	*38.31*	*0*	*50*	*0*	*76.6*	*70 - 126*	*34.5*	*10.5*	*20*	
Surr: 4-Bromofluorobenzene	*44.46*	*0*	*50*	*0*	*88.9*	*82 - 124*	*44.62*	*0.364*	*20*	
Surr: Dibromofluoromethane	*42.35*	*0*	*50*	*0*	*84.7*	*77 - 123*	*37.53*	*12.1*	*20*	
Surr: Toluene-d8	*48.22*	*0*	*50*	*0*	*96.4*	*82 - 127*	*44.93*	*7.06*	*20*	

The following samples were analyzed in this batch: HS18021255-09

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

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ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18021255

QC BATCH REPORT

Batch ID: R311722 **Instrument: VOA1** **Method: SW8260**

MBLK Sample ID: **VBLKW-180228** Units: **ug/L** Analysis Date: **28-Feb-2018 11:59**
Client ID: Run ID: **VOA1_311722** SeqNo: **4456447** 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	*43.84*	*0*	*50*	*0*	*87.7*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*47.4*	*0*	*50*	*0*	*94.8*	*83 - 122*				
Surr: Dibromofluoromethane	*47.53*	*0*	*50*	*0*	*95.1*	*73 - 126*				
Surr: Toluene-d8	*53.17*	*0*	*50*	*0*	*106*	*81 - 119*				

LCS Sample ID: **VLCSW-180228** Units: **ug/L** Analysis Date: **28-Feb-2018 11:05**
Client ID: Run ID: **VOA1_311722** SeqNo: **4456446** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	46.36	5.0	50	0	92.7	74 - 120				
Ethylbenzene	46.59	5.0	50	0	93.2	77 - 117				
Toluene	44.88	5.0	50	0	89.8	77 - 118				
Xylenes, Total	130	5.0	150	0	86.7	75 - 122				
Surr: 1,2-Dichloroethane-d4	*47.74*	*0*	*50*	*0*	*95.5*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*48.2*	*0*	*50*	*0*	*96.4*	*83 - 122*				
Surr: Dibromofluoromethane	*49.07*	*0*	*50*	*0*	*98.1*	*73 - 126*				
Surr: Toluene-d8	*50.23*	*0*	*50*	*0*	*100*	*81 - 119*				

MS Sample ID: **HS18021255-10MS** Units: **ug/L** Analysis Date: **28-Feb-2018 15:33**
Client ID: **DUP** Run ID: **VOA1_311722** SeqNo: **4456455** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	45.28	5.0	50	0	90.6	70 - 127				
Ethylbenzene	43.81	5.0	50	0	87.6	70 - 124				
Toluene	43.14	5.0	50	0	86.3	70 - 123				
Xylenes, Total	126.3	5.0	150	0	84.2	70 - 130				
Surr: 1,2-Dichloroethane-d4	*45.13*	*0*	*50*	*0*	*90.3*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*49.09*	*0*	*50*	*0*	*98.2*	*82 - 124*				
Surr: Dibromofluoromethane	*46.47*	*0*	*50*	*0*	*92.9*	*77 - 123*				
Surr: Toluene-d8	*51.87*	*0*	*50*	*0*	*104*	*82 - 127*				

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18021255

QC BATCH REPORT

Batch ID: R311722 **Instrument: VOA1** **Method: SW8260**

MSD Sample ID: **HS18021255-10MSD** Units: **ug/L** Analysis Date: **28-Feb-2018 16:00**
Client ID: **DUP** Run ID: **VOA1_311722** SeqNo: **4456456** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	42.81	5.0	50	0	85.6	70 - 127	45.28	0	20	
Ethylbenzene	46.4	5.0	50	0	92.8	70 - 124	43.81	0	20	
Toluene	43.76	5.0	50	0	87.5	70 - 123	43.14	0	20	
Xylenes, Total	138.2	5.0	150	0	92.2	70 - 130	126.3	0	20	
Surr: 1,2-Dichloroethane-d4	*49.06*	*0*	*50*	*0*	*98.1*	*70 - 126*	*45.13*	*0*	*20*	
Surr: 4-Bromofluorobenzene	*47.39*	*0*	*50*	*0*	*94.8*	*82 - 124*	*49.09*	*0*	*20*	
Surr: Dibromofluoromethane	*49.55*	*0*	*50*	*0*	*99.1*	*77 - 123*	*46.47*	*0*	*20*	
Surr: Toluene-d8	*46.61*	*0*	*50*	*0*	*93.2*	*82 - 127*	*51.87*	*0*	*20*	

The following samples were analyzed in this batch: HS18021255-10

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

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ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18021255

QC BATCH REPORT

Batch ID: R312266 **Instrument: ICS2100** **Method: E300**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW2-030718** Units: **mg/L** Analysis Date: **08-Mar-2018 15:55** Client ID: Run ID: **ICS2100_312266** SeqNo: **4468067** PrepDate: DF: **1**										
Chloride	U	0.500								
LCS Sample ID: **WLCSW2-030718** Units: **mg/L** Analysis Date: **08-Mar-2018 16:10** Client ID: Run ID: **ICS2100_312266** SeqNo: **4468068** PrepDate: DF: **1**										
Chloride	20.6	0.500	20	0	103	90 - 110				
LCSD Sample ID: **WLCSDW2-030718** Units: **mg/L** Analysis Date: **08-Mar-2018 16:24** Client ID: Run ID: **ICS2100_312266** SeqNo: **4468069** PrepDate: DF: **1**										
Chloride	20.42	0.500	20	0	102	90 - 110	20.6	0.897	20	
MS Sample ID: **HS18030283-11MS** Units: **mg/L** Analysis Date: **08-Mar-2018 16:53** Client ID: Run ID: **ICS2100_312266** SeqNo: **4468071** PrepDate: DF: **20**										
Chloride	1253	10.0	200	1054	99.3	80 - 120				O
MS Sample ID: **HS18021252-05MS** Units: **mg/L** Analysis Date: **08-Mar-2018 19:40** Client ID: Run ID: **ICS2100_312266** SeqNo: **4468080** PrepDate: DF: **10**										
Chloride	556	5.00	100	482.1	74.0	80 - 120				SO
MSD Sample ID: **HS18030283-11MSD** Units: **mg/L** Analysis Date: **08-Mar-2018 17:08** Client ID: Run ID: **ICS2100_312266** SeqNo: **4468072** PrepDate: DF: **20**										
Chloride	1279	10.0	200	1054	112	80 - 120	1253	2.08	20	O

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18021255

QC BATCH REPORT

Batch ID: R312266 **Instrument: ICS2100** **Method: E300**

MSD Sample ID: **HS18021252-05MSD** Units: **mg/L** Analysis Date: **08-Mar-2018 19:54**
Client ID: Run ID: **ICS2100_312266** SeqNo: **4468081** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	604.7	5.00	100	482.1	123	80 - 120	556	8.38	20	SO

The following samples were analyzed in this batch: HS18021255-05 HS18021255-06 HS18021255-07 HS18021255-08 HS18021255-09 HS18021255-10

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

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ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18021255

QC BATCH REPORT

Batch ID: R312270 **Instrument: ICS3K2** **Method: E300**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW1-030818** Units: **mg/L** Analysis Date: **09-Mar-2018 00:21**										
Client ID: Run ID: **ICS3K2_312270** SeqNo: **4468147** PrepDate: DF: **1**										
Chloride	U	0.500								
LCS Sample ID: **WLCSW1-030818** Units: **mg/L** Analysis Date: **09-Mar-2018 00:42**										
Client ID: Run ID: **ICS3K2_312270** SeqNo: **4468148** PrepDate: DF: **1**										
Chloride	20.47	0.500	20	0	102	90 - 110				
LCSD Sample ID: **WLCSDW1-030818** Units: **mg/L** Analysis Date: **09-Mar-2018 01:04**										
Client ID: Run ID: **ICS3K2_312270** SeqNo: **4468149** PrepDate: DF: **1**										
Chloride	20.49	0.500	20	0	102	90 - 110	20.47	0.137	20	
MS Sample ID: **HS18021256-03MS** Units: **mg/L** Analysis Date: **09-Mar-2018 05:46**										
Client ID: Run ID: **ICS3K2_312270** SeqNo: **4468161** PrepDate: DF: **10**										
Chloride	152.1	5.00	100	52.7	99.4	80 - 120				
MS Sample ID: **HS18021255-02MS** Units: **mg/L** Analysis Date: **09-Mar-2018 02:09**										
Client ID: **MW-2** Run ID: **ICS3K2_312270** SeqNo: **4468152** PrepDate: DF: **10**										
Chloride	268.1	5.00	100	171.1	97.1	80 - 120				
MSD Sample ID: **HS18021256-03MSD** Units: **mg/L** Analysis Date: **09-Mar-2018 06:08**										
Client ID: Run ID: **ICS3K2_312270** SeqNo: **4468162** PrepDate: DF: **10**										
Chloride	151.6	5.00	100	52.7	98.9	80 - 120	152.1	0.275	20	

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

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18021255

QC BATCH REPORT

Batch ID: R312270 **Instrument: ICS3K2** **Method: E300**

MSD Sample ID: **HS18021255-02MSD** Units: **mg/L** Analysis Date: **09-Mar-2018 02:31**
Client ID: **MW-2** Run ID: **ICS3K2_312270** SeqNo: **4468153** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	267.3	5.00	100	171.1	96.3	80 - 120	268.1	0.289	20	

The following samples were analyzed in this batch: HS18021255-01 HS18021255-02 HS18021255-03 HS18021255-04

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

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 09-Mar-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS18021255**

QUALIFIERS, ACRONYMS, UNITS

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

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

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

RIGHT SOLUTIONS | RIGHT PARTNER
Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 09-Mar-18

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	17-027-0	27-Mar-2018
California	2919 2016-2018	31-Jul-2018
Illinois	004112	09-May-2018
Kentucky	123043	30-Apr-2018
Louisiana	03087 2017-2017	30-Jun-2018
North Dakota	R193 2017-2017	30-Apr-2018
Oklahoma	2017-088	31-Aug-2018
Texas	T104704231-17-19	30-Apr-2018
North Carolina	624-2018	31-Dec-2018

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 09-Mar-18

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **24-Feb-2018 09:15**

Work Order: HS18021255 Received by: **JRM**

Checklist completed by: *Jared R. Makan* eSignature 24-Feb-2018 Date Reviewed by: *Dane J. Wacasey* eSignature 26-Feb-2018 Date

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.9c/2.3c UC/C	IR30	
Cooler(s)/Kit(s):	25640		
Date/Time sample(s) sent to storage:	02/24/2018 14:55		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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

Chain of Custody Form

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

Page _____ of _____

COC ID: 174475

ALS Project Manager:		ALS Work Order #:	

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	4502201559 ENV749-40	Project Name	GSHI PXP Hill E.C. Federal #7 TB	A	8260_W (BTEX)
Work Order		Project Number	55627DM (ENV749A008)	B	300_W (300 Chloride)
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.	C	8260_W (BTEX) Trip Blank
Send Report To	Angela Bown	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	Angela.Bown@ghd.com	e-Mail Address		J	

HS18021255
Glenn Springs Holdings, Inc.
55627DM GSHI PXP Hill E.C. Federal #7 TB

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1	2-22-18	1110	GW	1,8	4	X	X									
2	MW-2	2-22-18	1110	GW	1,8	4	X	X									
3	MW-3	2-22-18	1245	GW	1,8	4	X	X									
4	MW-4	2-22-18	1200	GW	1,8	4	X	X									
5	MW-5	2-22-18	1305	GW	1,8	4	X	X									
6	MW-6	2-22-18	1140	GW	1,8	4	X	X									
7	MW-7	2-22-18	1205	GW	1,8	4	X	X									
8	MW-8	2-22-18	1380	GW	1,8	4	X	X									
9	MW-9	2-22-18	1235	GW	1,8	4	X	X									
10	Dup	2-22-18	——	GW	1,8	4	X	X									

Sampler(s) Please Print & Sign

Shipment Method

Required Turnaround Time: (Check Box) ☐ Other _____ ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date:	Time:	Received by (Laboratory):
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: GSHI PXP Hill EC Federal 7 TB

Cooler ID	Cooler Temp.
25640	1.9
	1.30
	CF 0.4

QC Package: (Check One Box Below)
☒ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other _____
☐ TRRP Checklist
☐ TRRP Level IV

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

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

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

Chain of Custody Form

Page _____ of _____

COC ID: 174474

ALS Project Manager:		ALS Work Order #:	

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	4502201559 ENV749-40	Project Name	GSHI PXP Hill E.C. Federal #7 TB	A	8260_W (BTEX)
Work Order		Project Number	55627DM (ENV749A008)	B	300_W (300 Chloride)
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.	C	8260_W (BTEX) Trip Blank
Send Report To	Angela Bown	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	Angela.Bown@ghd.com	e-Mail Address		J	

HS18021255

Glenn Springs Holdings, Inc.

55627DM GSHI PXP Hill E.C. Federal #7 TB

No.	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																	
10																	

Sampler(s) Please Print & Sign

Shipment Method

Required Turnaround Time: (Check Box) ☐ Other _____ ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
[signature]	2-23-18	1120	
Relinquished by:	Date:	Time:	Received by (Laboratory):
	2/24/18	09:15	JM
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: GSHI PXP Hill EC Federal 7 TB

Cooler ID	Cooler Temp.
25640	1.9
	1.430
	CF 0.4

QC Package: (Check One Box Below)

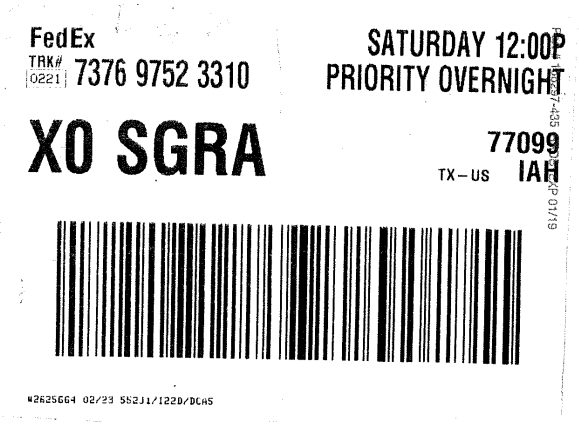
- ☒ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other _____
- ☐ TRRP Checklist
- ☐ TRRP Level IV

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

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

Date: 2-23-
Name: Ste
Company: T

CUSTODY SEAL
Time: 1120
ling Beadle
excaTech

Seal Broken By:
Date: 2/24/18

RIGHT SOLUTIONS | RIGHT PARTNER

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

September 26, 2018

James Abston
Glenn Springs Holdings, Inc.
PO Box 2148

Houston, TX 77252-2148

Work Order: **HS18090747**

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

Dear James,

ALS Environmental received 11 sample(s) on Sep 14, 2018 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

Released to Imaging: 9/20/2021 3:06:37 PM
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ALS Houston, US Date: 26-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS18090747

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS18090747-01	MW-1	Groundwater		12-Sep-2018 11:20	14-Sep-2018 08:46	☐
HS18090747-02	MW-2	Groundwater		11-Sep-2018 15:00	14-Sep-2018 08:46	☐
HS18090747-03	MW-3	Groundwater		12-Sep-2018 12:15	14-Sep-2018 08:46	☐
HS18090747-04	MW-4	Groundwater		12-Sep-2018 15:00	14-Sep-2018 08:46	☐
HS18090747-05	MW-5	Groundwater		12-Sep-2018 14:00	14-Sep-2018 08:46	☐
HS18090747-06	MW-6	Groundwater		11-Sep-2018 14:30	14-Sep-2018 08:46	☐
HS18090747-07	MW-7	Groundwater		12-Sep-2018 16:00	14-Sep-2018 08:46	☐
HS18090747-08	MW-8	Groundwater		12-Sep-2018 15:30	14-Sep-2018 08:46	☐
HS18090747-09	MW-9	Groundwater		12-Sep-2018 13:30	14-Sep-2018 08:46	☐
HS18090747-10	DUP	Groundwater		12-Sep-2018 00:00	14-Sep-2018 08:46	☐
HS18090747-11	Trip Blank	Water	ALS 080918-16	12-Sep-2018 00:00	14-Sep-2018 08:46	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 26-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS18090747

CASE NARRATIVE

GCMS Volatiles by Method SW8260

Batch ID: R323958,R323980

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

WetChemistry by Method E300

Batch ID: R324097

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 26-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-1
Collection Date: 12-Sep-2018 11:20

ANALYTICAL REPORT
WorkOrder:HS18090747
Lab ID:HS18090747-01
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	23-Sep-2018 13:06
Ethylbenzene		U	0.50	5.0	ug/L	1	23-Sep-2018 13:06
Toluene		U	0.50	5.0	ug/L	1	23-Sep-2018 13:06
Xylenes, Total		U	0.50	5.0	ug/L	1	23-Sep-2018 13:06
Surr: 1,2-Dichloroethane-d4	*94.6*			*70-126*	*%REC*	*1*	*23-Sep-2018 13:06*
Surr: 4-Bromofluorobenzene	*95.7*			*82-124*	*%REC*	*1*	*23-Sep-2018 13:06*
Surr: Dibromofluoromethane	*87.5*			*77-123*	*%REC*	*1*	*23-Sep-2018 13:06*
Surr: Toluene-d8	*107*			*82-127*	*%REC*	*1*	*23-Sep-2018 13:06*
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**209**		**2.00**	**5.00**	**mg/L**	10	24-Sep-2018 19:38

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

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ALS Houston, US Date: 26-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-2
Collection Date: 11-Sep-2018 15:00

ANALYTICAL REPORT
WorkOrder:HS18090747
Lab ID:HS18090747-02
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	24-Sep-2018 12:59
Ethylbenzene		U	0.50	5.0	ug/L	1	24-Sep-2018 12:59
Toluene		U	0.50	5.0	ug/L	1	24-Sep-2018 12:59
Xylenes, Total		U	0.50	5.0	ug/L	1	24-Sep-2018 12:59
Surr: 1,2-Dichloroethane-d4	*96.6*			*70-126*	*%REC*	*1*	*24-Sep-2018 12:59*
Surr: 4-Bromofluorobenzene	*93.4*			*82-124*	*%REC*	*1*	*24-Sep-2018 12:59*
Surr: Dibromofluoromethane	*87.9*			*77-123*	*%REC*	*1*	*24-Sep-2018 12:59*
Surr: Toluene-d8	*107*			*82-127*	*%REC*	*1*	*24-Sep-2018 12:59*
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**178**		**2.00**	**5.00**	**mg/L**	10	24-Sep-2018 20:43

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

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ALS Houston, US Date: 26-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-3
Collection Date: 12-Sep-2018 12:15

ANALYTICAL REPORT
WorkOrder:HS18090747
Lab ID:HS18090747-03
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	24-Sep-2018 19:40
Ethylbenzene		U	0.50	5.0	ug/L	1	24-Sep-2018 19:40
Toluene		U	0.50	5.0	ug/L	1	24-Sep-2018 19:40
Xylenes, Total		U	0.50	5.0	ug/L	1	24-Sep-2018 19:40
Surr: 1,2-Dichloroethane-d4	*97.0*			*70-126*	*%REC*	*1*	*24-Sep-2018 19:40*
Surr: 4-Bromofluorobenzene	*92.3*			*82-124*	*%REC*	*1*	*24-Sep-2018 19:40*
Surr: Dibromofluoromethane	*88.8*			*77-123*	*%REC*	*1*	*24-Sep-2018 19:40*
Surr: Toluene-d8	*106*			*82-127*	*%REC*	*1*	*24-Sep-2018 19:40*
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**293**		**2.00**	**5.00**	**mg/L**	10	24-Sep-2018 21:05

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

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ALS Houston, US Date: 26-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-4
Collection Date: 12-Sep-2018 15:00

ANALYTICAL REPORT
WorkOrder:HS18090747
Lab ID:HS18090747-04
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	24-Sep-2018 13:49
Ethylbenzene		U	0.50	5.0	ug/L	1	24-Sep-2018 13:49
Toluene		U	0.50	5.0	ug/L	1	24-Sep-2018 13:49
Xylenes, Total		U	0.50	5.0	ug/L	1	24-Sep-2018 13:49
Surr: 1,2-Dichloroethane-d4	*95.2*			*70-126*	*%REC*	*1*	*24-Sep-2018 13:49*
Surr: 4-Bromofluorobenzene	*95.6*			*82-124*	*%REC*	*1*	*24-Sep-2018 13:49*
Surr: Dibromofluoromethane	*89.6*			*77-123*	*%REC*	*1*	*24-Sep-2018 13:49*
Surr: Toluene-d8	*105*			*82-127*	*%REC*	*1*	*24-Sep-2018 13:49*
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**644**		**4.00**	**10.0**	**mg/L**	20	24-Sep-2018 21:27

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

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ALS Houston, US Date: 26-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-5
Collection Date: 12-Sep-2018 14:00

ANALYTICAL REPORT
WorkOrder:HS18090747
Lab ID:HS18090747-05
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	24-Sep-2018 16:45
Ethylbenzene		U	0.50	5.0	ug/L	1	24-Sep-2018 16:45
Toluene		U	0.50	5.0	ug/L	1	24-Sep-2018 16:45
Xylenes, Total		U	0.50	5.0	ug/L	1	24-Sep-2018 16:45
Surr: 1,2-Dichloroethane-d4	*96.3*			*70-126*	*%REC*	*1*	*24-Sep-2018 16:45*
Surr: 4-Bromofluorobenzene	*94.7*			*82-124*	*%REC*	*1*	*24-Sep-2018 16:45*
Surr: Dibromofluoromethane	*89.3*			*77-123*	*%REC*	*1*	*24-Sep-2018 16:45*
Surr: Toluene-d8	*107*			*82-127*	*%REC*	*1*	*24-Sep-2018 16:45*
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**658**		**4.00**	**10.0**	**mg/L**	20	24-Sep-2018 21:48

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

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ALS Houston, US Date: 26-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-6
Collection Date: 11-Sep-2018 14:30

ANALYTICAL REPORT
WorkOrder:HS18090747
Lab ID:HS18090747-06
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	24-Sep-2018 13:24
Ethylbenzene		U	0.50	5.0	ug/L	1	24-Sep-2018 13:24
Toluene		U	0.50	5.0	ug/L	1	24-Sep-2018 13:24
Xylenes, Total		U	0.50	5.0	ug/L	1	24-Sep-2018 13:24
Surr: 1,2-Dichloroethane-d4	*95.8*			*70-126*	*%REC*	*1*	*24-Sep-2018 13:24*
Surr: 4-Bromofluorobenzene	*93.9*			*82-124*	*%REC*	*1*	*24-Sep-2018 13:24*
Surr: Dibromofluoromethane	*89.7*			*77-123*	*%REC*	*1*	*24-Sep-2018 13:24*
Surr: Toluene-d8	*107*			*82-127*	*%REC*	*1*	*24-Sep-2018 13:24*
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**104**		**0.400**	**1.00**	**mg/L**	2	24-Sep-2018 23:15

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

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ALS Houston, US Date: 26-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7
Collection Date: 12-Sep-2018 16:00

ANALYTICAL REPORT
WorkOrder:HS18090747
Lab ID:HS18090747-07
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	24-Sep-2018 17:10
Ethylbenzene		U	0.50	5.0	ug/L	1	24-Sep-2018 17:10
Toluene		U	0.50	5.0	ug/L	1	24-Sep-2018 17:10
Xylenes, Total		U	0.50	5.0	ug/L	1	24-Sep-2018 17:10
Surr: 1,2-Dichloroethane-d4	*97.9*			*70-126*	*%REC*	*1*	*24-Sep-2018 17:10*
Surr: 4-Bromofluorobenzene	*96.8*			*82-124*	*%REC*	*1*	*24-Sep-2018 17:10*
Surr: Dibromofluoromethane	*89.1*			*77-123*	*%REC*	*1*	*24-Sep-2018 17:10*
Surr: Toluene-d8	*107*			*82-127*	*%REC*	*1*	*24-Sep-2018 17:10*
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**781**		**4.00**	**10.0**	**mg/L**	20	24-Sep-2018 23:37

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

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ALS Houston, US Date: 26-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-8
Collection Date: 12-Sep-2018 15:30

ANALYTICAL REPORT
WorkOrder:HS18090747
Lab ID:HS18090747-08
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	24-Sep-2018 17:35
Ethylbenzene		U	0.50	5.0	ug/L	1	24-Sep-2018 17:35
Toluene		U	0.50	5.0	ug/L	1	24-Sep-2018 17:35
Xylenes, Total		U	0.50	5.0	ug/L	1	24-Sep-2018 17:35
Surr: 1,2-Dichloroethane-d4	*96.2*			*70-126*	*%REC*	*1*	*24-Sep-2018 17:35*
Surr: 4-Bromofluorobenzene	*94.8*			*82-124*	*%REC*	*1*	*24-Sep-2018 17:35*
Surr: Dibromofluoromethane	*89.2*			*77-123*	*%REC*	*1*	*24-Sep-2018 17:35*
Surr: Toluene-d8	*105*			*82-127*	*%REC*	*1*	*24-Sep-2018 17:35*
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**180**		**2.00**	**5.00**	**mg/L**	10	24-Sep-2018 23:59

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

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ALS Houston, US Date: 26-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-9
Collection Date: 12-Sep-2018 13:30

ANALYTICAL REPORT
WorkOrder:HS18090747
Lab ID:HS18090747-09
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	24-Sep-2018 18:00
Ethylbenzene		U	0.50	5.0	ug/L	1	24-Sep-2018 18:00
Toluene		U	0.50	5.0	ug/L	1	24-Sep-2018 18:00
Xylenes, Total		U	0.50	5.0	ug/L	1	24-Sep-2018 18:00
Surr: 1,2-Dichloroethane-d4	*98.1*			*70-126*	*%REC*	*1*	*24-Sep-2018 18:00*
Surr: 4-Bromofluorobenzene	*94.9*			*82-124*	*%REC*	*1*	*24-Sep-2018 18:00*
Surr: Dibromofluoromethane	*90.2*			*77-123*	*%REC*	*1*	*24-Sep-2018 18:00*
Surr: Toluene-d8	*106*			*82-127*	*%REC*	*1*	*24-Sep-2018 18:00*
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**122**		**2.00**	**5.00**	**mg/L**	10	25-Sep-2018 00:20

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

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ALS Houston, US Date: 26-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: DUP
Collection Date: 12-Sep-2018 00:00

ANALYTICAL REPORT
WorkOrder:HS18090747
Lab ID:HS18090747-10
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	24-Sep-2018 18:25
Ethylbenzene		U	0.50	5.0	ug/L	1	24-Sep-2018 18:25
Toluene		U	0.50	5.0	ug/L	1	24-Sep-2018 18:25
Xylenes, Total		U	0.50	5.0	ug/L	1	24-Sep-2018 18:25
Surr: 1,2-Dichloroethane-d4	*97.9*			*70-126*	*%REC*	*1*	*24-Sep-2018 18:25*
Surr: 4-Bromofluorobenzene	*95.2*			*82-124*	*%REC*	*1*	*24-Sep-2018 18:25*
Surr: Dibromofluoromethane	*87.8*			*77-123*	*%REC*	*1*	*24-Sep-2018 18:25*
Surr: Toluene-d8	*106*			*82-127*	*%REC*	*1*	*24-Sep-2018 18:25*
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**795**		**4.00**	**10.0**	**mg/L**	20	25-Sep-2018 00:42

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 26-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: Trip Blank
Collection Date: 12-Sep-2018 00:00

ANALYTICAL REPORT
WorkOrder:HS18090747
Lab ID:HS18090747-11
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	24-Sep-2018 12:34
Ethylbenzene		U	0.50	5.0	ug/L	1	24-Sep-2018 12:34
Toluene		U	0.50	5.0	ug/L	1	24-Sep-2018 12:34
Xylenes, Total		U	0.50	5.0	ug/L	1	24-Sep-2018 12:34
Surr: 1,2-Dichloroethane-d4	*95.2*			*70-126*	*%REC*	*1*	*24-Sep-2018 12:34*
Surr: 4-Bromofluorobenzene	*95.0*			*82-124*	*%REC*	*1*	*24-Sep-2018 12:34*
Surr: Dibromofluoromethane	*89.1*			*77-123*	*%REC*	*1*	*24-Sep-2018 12:34*
Surr: Toluene-d8	*106*			*82-127*	*%REC*	*1*	*24-Sep-2018 12:34*

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 26-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18090747

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R323958	**Test Name :** VOLATILES - SW8260C				**Matrix:** Groundwater	
HS18090747-01	MW-1	12 Sep 2018 11:20			23 Sep 2018 13:06	1
Batch ID R323980	**Test Name :** VOLATILES - SW8260C				**Matrix:** Water	
HS18090747-11	Trip Blank	12 Sep 2018 00:00			24 Sep 2018 12:34	1
Batch ID R323980	**Test Name :** VOLATILES - SW8260C				**Matrix:** Groundwater	
HS18090747-02	MW-2	11 Sep 2018 15:00			24 Sep 2018 12:59	1
HS18090747-03	MW-3	12 Sep 2018 12:15			24 Sep 2018 19:40	1
HS18090747-04	MW-4	12 Sep 2018 15:00			24 Sep 2018 13:49	1
HS18090747-05	MW-5	12 Sep 2018 14:00			24 Sep 2018 16:45	1
HS18090747-06	MW-6	11 Sep 2018 14:30			24 Sep 2018 13:24	1
HS18090747-07	MW-7	12 Sep 2018 16:00			24 Sep 2018 17:10	1
HS18090747-08	MW-8	12 Sep 2018 15:30			24 Sep 2018 17:35	1
HS18090747-09	MW-9	12 Sep 2018 13:30			24 Sep 2018 18:00	1
HS18090747-10	DUP	12 Sep 2018 00:00			24 Sep 2018 18:25	1
Batch ID R324097	**Test Name :** ANIONS BY E300.0				**Matrix:** Groundwater	
HS18090747-01	MW-1	12 Sep 2018 11:20			24 Sep 2018 19:38	10
HS18090747-02	MW-2	11 Sep 2018 15:00			24 Sep 2018 20:43	10
HS18090747-03	MW-3	12 Sep 2018 12:15			24 Sep 2018 21:05	10
HS18090747-04	MW-4	12 Sep 2018 15:00			24 Sep 2018 21:27	20
HS18090747-05	MW-5	12 Sep 2018 14:00			24 Sep 2018 21:48	20
HS18090747-06	MW-6	11 Sep 2018 14:30			24 Sep 2018 23:15	2
HS18090747-07	MW-7	12 Sep 2018 16:00			24 Sep 2018 23:37	20
HS18090747-08	MW-8	12 Sep 2018 15:30			24 Sep 2018 23:59	10
HS18090747-09	MW-9	12 Sep 2018 13:30			25 Sep 2018 00:20	10
HS18090747-10	DUP	12 Sep 2018 00:00			25 Sep 2018 00:42	20

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 26-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18090747

QC BATCH REPORT

Batch ID: R323958 **Instrument: VOA9** **Method: SW8260**

MBLK Sample ID: **VBLKW-180923** Units: **ug/L** Analysis Date: **23-Sep-2018 12:41**
Client ID: Run ID: **VOA9_323958** SeqNo: **4737417** 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	*47.46*	*0*	*50*	*0*	*94.9*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*47.38*	*0*	*50*	*0*	*94.8*	*82 - 115*				
Surr: Dibromofluoromethane	*44.35*	*0*	*50*	*0*	*88.7*	*73 - 126*				
Surr: Toluene-d8	*52.87*	*0*	*50*	*0*	*106*	*81 - 120*				

LCS Sample ID: **VLCSW-180923** Units: **ug/L** Analysis Date: **23-Sep-2018 11:51**
Client ID: Run ID: **VOA9_323958** SeqNo: **4737416** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.14	5.0	20	0	106	74 - 120				
Ethylbenzene	18.78	5.0	20	0	93.9	77 - 117				
Toluene	20.36	5.0	20	0	102	77 - 118				
Xylenes, Total	57.18	5.0	60	0	95.3	75 - 122				
Surr: 1,2-Dichloroethane-d4	*45.72*	*0*	*50*	*0*	*91.4*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*49.01*	*0*	*50*	*0*	*98.0*	*82 - 115*				
Surr: Dibromofluoromethane	*46.57*	*0*	*50*	*0*	*93.1*	*73 - 126*				
Surr: Toluene-d8	*52.76*	*0*	*50*	*0*	*106*	*81 - 120*				

MS Sample ID: **HS18090747-01MS** Units: **ug/L** Analysis Date: **23-Sep-2018 13:31**
Client ID: **MW-1** Run ID: **VOA9_323958** SeqNo: **4737419** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.84	5.0	20	0	114	70 - 127				
Ethylbenzene	20.55	5.0	20	0	103	70 - 124				
Toluene	21.66	5.0	20	0	108	70 - 123				
Xylenes, Total	59.71	5.0	60	0	99.5	70 - 130				
Surr: 1,2-Dichloroethane-d4	*47.58*	*0*	*50*	*0*	*95.2*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*48.95*	*0*	*50*	*0*	*97.9*	*82 - 124*				
Surr: Dibromofluoromethane	*47.23*	*0*	*50*	*0*	*94.5*	*77 - 123*				
Surr: Toluene-d8	*52.62*	*0*	*50*	*0*	*105*	*82 - 127*				

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

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 26-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18090747

QC BATCH REPORT

Batch ID: R323958 **Instrument: VOA9** **Method: SW8260**

MSD Sample ID: **HS18090747-01MSD** Units: **ug/L** Analysis Date: **23-Sep-2018 13:56**
Client ID: **MW-1** Run ID: **VOA9_323958** SeqNo: **4737420** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.47	5.0	20	0	112	70 - 127	22.84	1.62	20	
Ethylbenzene	20.11	5.0	20	0	101	70 - 124	20.55	2.2	20	
Toluene	21.15	5.0	20	0	106	70 - 123	21.66	2.39	20	
Xylenes, Total	59.05	5.0	60	0	98.4	70 - 130	59.71	1.12	20	
Surr: 1,2-Dichloroethane-d4	*47.46*	*0*	*50*	*0*	*94.9*	*70 - 126*	*47.58*	*0.265*	*20*	
Surr: 4-Bromofluorobenzene	*49.3*	*0*	*50*	*0*	*98.6*	*82 - 124*	*48.95*	*0.721*	*20*	
Surr: Dibromofluoromethane	*47.36*	*0*	*50*	*0*	*94.7*	*77 - 123*	*47.23*	*0.277*	*20*	
Surr: Toluene-d8	*52.67*	*0*	*50*	*0*	*105*	*82 - 127*	*52.62*	*0.1*	*20*	

The following samples were analyzed in this batch: HS18090747-01

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

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ALS Houston, US Date: 26-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18090747

QC BATCH REPORT

Batch ID: R323980 **Instrument: VOA9** **Method: SW8260**

MBLK Sample ID: **VBLKW-180924** Units: **ug/L** Analysis Date: **24-Sep-2018 12:09**
Client ID: Run ID: **VOA9_323980** SeqNo: **4737942** 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	*47.33*	*0*	*50*	*0*	*94.7*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*46.83*	*0*	*50*	*0*	*93.7*	*82 - 115*				
Surr: Dibromofluoromethane	*45*	*0*	*50*	*0*	*90.0*	*73 - 126*				
Surr: Toluene-d8	*53.05*	*0*	*50*	*0*	*106*	*81 - 120*				

LCS Sample ID: **VLCSW-180924** Units: **ug/L** Analysis Date: **24-Sep-2018 11:19**
Client ID: Run ID: **VOA9_323980** SeqNo: **4737941** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.22	5.0	20	0	106	74 - 120				
Ethylbenzene	17.63	5.0	20	0	88.2	77 - 117				
Toluene	19.75	5.0	20	0	98.8	77 - 118				
Xylenes, Total	53.64	5.0	60	0	89.4	75 - 122				
Surr: 1,2-Dichloroethane-d4	*46.72*	*0*	*50*	*0*	*93.4*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*49.5*	*0*	*50*	*0*	*99.0*	*82 - 115*				
Surr: Dibromofluoromethane	*46.66*	*0*	*50*	*0*	*93.3*	*73 - 126*				
Surr: Toluene-d8	*52.56*	*0*	*50*	*0*	*105*	*81 - 120*				

MS Sample ID: **HS18090747-04MS** Units: **ug/L** Analysis Date: **24-Sep-2018 14:39**
Client ID: **MW-4** Run ID: **VOA9_323980** SeqNo: **4738362** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	23.26	5.0	20	0	116	70 - 127				
Ethylbenzene	21	5.0	20	0	105	70 - 124				
Toluene	21.95	5.0	20	0	110	70 - 123				
Xylenes, Total	61.28	5.0	60	0	102	70 - 130				
Surr: 1,2-Dichloroethane-d4	*47.11*	*0*	*50*	*0*	*94.2*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*49.52*	*0*	*50*	*0*	*99.0*	*82 - 124*				
Surr: Dibromofluoromethane	*47.16*	*0*	*50*	*0*	*94.3*	*77 - 123*				
Surr: Toluene-d8	*52.53*	*0*	*50*	*0*	*105*	*82 - 127*				

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

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ALS Houston, US Date: 26-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18090747

QC BATCH REPORT

Batch ID: R323980 **Instrument: VOA9** **Method: SW8260**

MSD Sample ID: **HS18090747-04MSD** Units: **ug/L** Analysis Date: **24-Sep-2018 15:04**
Client ID: **MW-4** Run ID: **VOA9_323980** SeqNo: **4738363** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	22.93	5.0	20	0	115	70 - 127	23.26	1.42	20	
Ethylbenzene	20.69	5.0	20	0	103	70 - 124	21	1.47	20	
Toluene	21.68	5.0	20	0	108	70 - 123	21.95	1.23	20	
Xylenes, Total	60.49	5.0	60	0	101	70 - 130	61.28	1.31	20	
Surr: 1,2-Dichloroethane-d4	*47.04*	*0*	*50*	*0*	*94.1*	*70 - 126*	*47.11*	*0.155*	*20*	
Surr: 4-Bromofluorobenzene	*49.65*	*0*	*50*	*0*	*99.3*	*82 - 124*	*49.52*	*0.271*	*20*	
Surr: Dibromofluoromethane	*47.53*	*0*	*50*	*0*	*95.1*	*77 - 123*	*47.16*	*0.799*	*20*	
Surr: Toluene-d8	*52.34*	*0*	*50*	*0*	*105*	*82 - 127*	*52.53*	*0.359*	*20*	

The following samples were analyzed in this batch:

HS18090747-02	HS18090747-03	HS18090747-04	HS18090747-05
HS18090747-06	HS18090747-07	HS18090747-08	HS18090747-09
HS18090747-10	HS18090747-11		

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

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 26-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18090747

QC BATCH REPORT

Batch ID: R324097 **Instrument: ICS3K2** **Method: E300**

MBLK Sample ID: **WBLKW1-092418** Units: **mg/L** Analysis Date: **24-Sep-2018 18:51**
Client ID: Run ID: **ICS3K2_324097** SeqNo: **4740304** 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: **WLCSW1-092418** Units: **mg/L** Analysis Date: **24-Sep-2018 19:13**
Client ID: Run ID: **ICS3K2_324097** SeqNo: **4740305** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.64	0.500	20	0	103	90 - 110				

LCSD Sample ID: **WLCSDW1-092418** Units: **mg/L** Analysis Date: **25-Sep-2018 05:02**
Client ID: Run ID: **ICS3K2_324097** SeqNo: **4740330** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.78	0.500	20	0	104	90 - 110	20.64	0.676	20	

MS Sample ID: **HS18091184-01MS** Units: **mg/L** Analysis Date: **25-Sep-2018 01:47**
Client ID: Run ID: **ICS3K2_324097** SeqNo: **4740322** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	149	2.50	50	97.32	103	80 - 120				

MS Sample ID: **HS18090747-01MS** Units: **mg/L** Analysis Date: **24-Sep-2018 20:00**
Client ID: **MW-1** Run ID: **ICS3K2_324097** SeqNo: **4740307** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	320	5.00	100	208.9	111	80 - 120				

MSD Sample ID: **HS18091184-01MSD** Units: **mg/L** Analysis Date: **25-Sep-2018 02:09**
Client ID: Run ID: **ICS3K2_324097** SeqNo: **4740323** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	149.5	2.50	50	97.32	104	80 - 120	149	0.343	20	

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

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ALS Houston, US Date: 26-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18090747

QC BATCH REPORT

Batch ID: R324097 **Instrument:** ICS3K2 **Method:** E300

MSD Sample ID: **HS18090747-01MSD** Units: **mg/L** Analysis Date: **24-Sep-2018 20:22**
Client ID: **MW-1** Run ID: **ICS3K2_324097** SeqNo: **4740308** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	316.2	5.00	100	208.9	107	80 - 120	320	1.18	20	

The following samples were analyzed in this batch:

HS18090747-01	HS18090747-02	HS18090747-03	HS18090747-04
HS18090747-05	HS18090747-06	HS18090747-07	HS18090747-08
HS18090747-09	HS18090747-10		

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

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 26-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS18090747**

QUALIFIERS, ACRONYMS, UNITS

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

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

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

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ALS Houston, US Date: 26-Sep-18

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
North Carolina	624-2018	31-Dec-2018
Arkansas	88-0356	27-Mar-2019
Texas	T10470231-18-21	30-Apr-2019
North Dakota	R193 2018-2019	30-Apr-2019
Illinois	004438	29-Jun-2019
Louisiana	03087	30-Jun-2019
Dept of Defense	L2231 Rev 3-30-2018	22-Dec-2018
Kentucky	123043 - 2018	30-Apr-2019
Kansas	E-10352 2018-2019	31-Jul-2019
Oklahoma	2018-156	31-Aug-2019

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ALS Houston, US Date: 26-Sep-18

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **14-Sep-2018 08:46**

Work Order: HS18090747 Received by: **RPG**

Checklist completed by: *Jared R. Makan* eSignature 15-Sep-2018 Date

Reviewed by: *Dane J. Wacasey* eSignature 19-Sep-2018 Date

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	0.8c/0.4c UC/C	IR11	
Cooler(s)/Kit(s):	24411		
Date/Time sample(s) sent to storage:	09/15/2018 15:00		
Water - VOA vials have zero headspace?	Yes ☐	No ☑	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes: Third BTEX vial for MW-6 contains headspace greater than 6mm. Ample volume remains for analysis.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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Chain of Custody Form

Page _____ of _____

COC ID: 190394

ALS Project Manager:		ALS Work Order #:	

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	4502201559 ENV749-40	Project Name	55627DM GSHI PXP Hill E.C. Fed.7TB	A	8260_W(8260 BTEX)
Work Order		Project Number		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	Angela Bown	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	Angela.Bown@ghd.com	e-Mail Address		J	

HS18090747

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

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1	9/12/18	1120	Groundwa	1,8	4	X	X									
2	MW-2	9/11/18	1500	Groundwa	1,8	4	X	X									
3	MW-3	9/12/18	1215	Groundwa	1,8	4	X	X									
4	MW-4	9/12/18	1500	Groundwa	1,8	4	X	X									
5	MW-5	9/12/18	1400	Groundwa	1,8	4	X	X									
6	MW-6	9/11/18	1430	Groundwa	1,8	4	X	X									
7	MW-7	9/12/18	1600	Groundwa	1,8	4	X	X									
8	MW-8	9/12/18	1530	Groundwa	1,8	4	X	X									
9	MW-9	9/12/18	1330	Groundwa	1,8	4	X	X									
10	DUP			Groundwa	1,8	4	X	X									

Sampler(s) Please Print & Sign: H.Stanhunt

Shipment Method: FedEx

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other _____

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
H.Stanhunt	9/13/18	1200	
Relinquished by:	Date:	Time:	Received by (Laboratory):
	9/14/18	08:46	Rey
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: [GSHI PXP Hill EC Federal 7 TB]

Cooler ID	Cooler Temp.
24411	0.8

QC Package: (Check One Box Below)
- [X] Level II Std QC
- [ ] Level III Std QC/Raw Data
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

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

IR-21 v1.0 CF-0.4

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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Chain of Custody Form

Page _____ of _____

COC ID: 190393

ALS Project Manager:		ALS Work Order #:	

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	4502201559 ENV749-40	Project Name	55627DM GSHI PXP Hill E.C. Federa	A	8260_W (8260 BTEX)
Work Order		Project Number		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	Angela Bown	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	Angela.Bown@ghd.com	e-Mail Address		J	

HS18090747

Glenn Springs Holdings, Inc.

55627DM GSHI PXP Hill E.C. Federal #7 TB

No.	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																	
10																	

Sampler(s) Please Print & Sign

Shipment Method: FedEx

Required Turnaround Time: (Check Box) [ ] Other _____ [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
Relinquished by:	Date: 9/14/18	Time: 08:46	Received by (Laboratory):
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: [GSHI PXP Hill EC Federal 7 TB]

Cooler ID	Cooler Temp.
24411	4° C 0-8

QC Package: (Check One Box Below)

- [X] Level II Std QC
- [ ] Level III Std QC/Raw Date
- [ ] Level IV SW846/CLP
- [ ] Other
- [ ] TRRP Checklist
- [ ] TRRP Level IV

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

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

Rev 11 CLF-0.4

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

24411

CUSTODY SEAL

Date: 9/13/18 Time: 1200
Name: Hal Tan Hunt
Company: Tetra Tech

Seal Broken By: RM
Date: 09/14/18

24411 SEP 14 2018

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

24411

CUSTODY SEAL

Date: 9/13/18 Time: 1200
Name: Hal Tan Hunt
Company: Tetra Tech

Seal Broken By: RM
Date: 09/14/18

CLIENT SERVICES
ALS LABORATORY GROUP
10450 STANCLIFF ROAD
SUITE 210
HOUSTON TX 77099
(281) 530-5656
REF: GSHI PXP-DW

24411

RMA:

FedEx Express

FedEx
TRK# 0221 4380 9531 8027

FRI - 14 SEP 10:30A
PRIORITY OVERNIGHT

AB SGRA

77099
TX-US IAH

546C1/3309/5

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Appendix C

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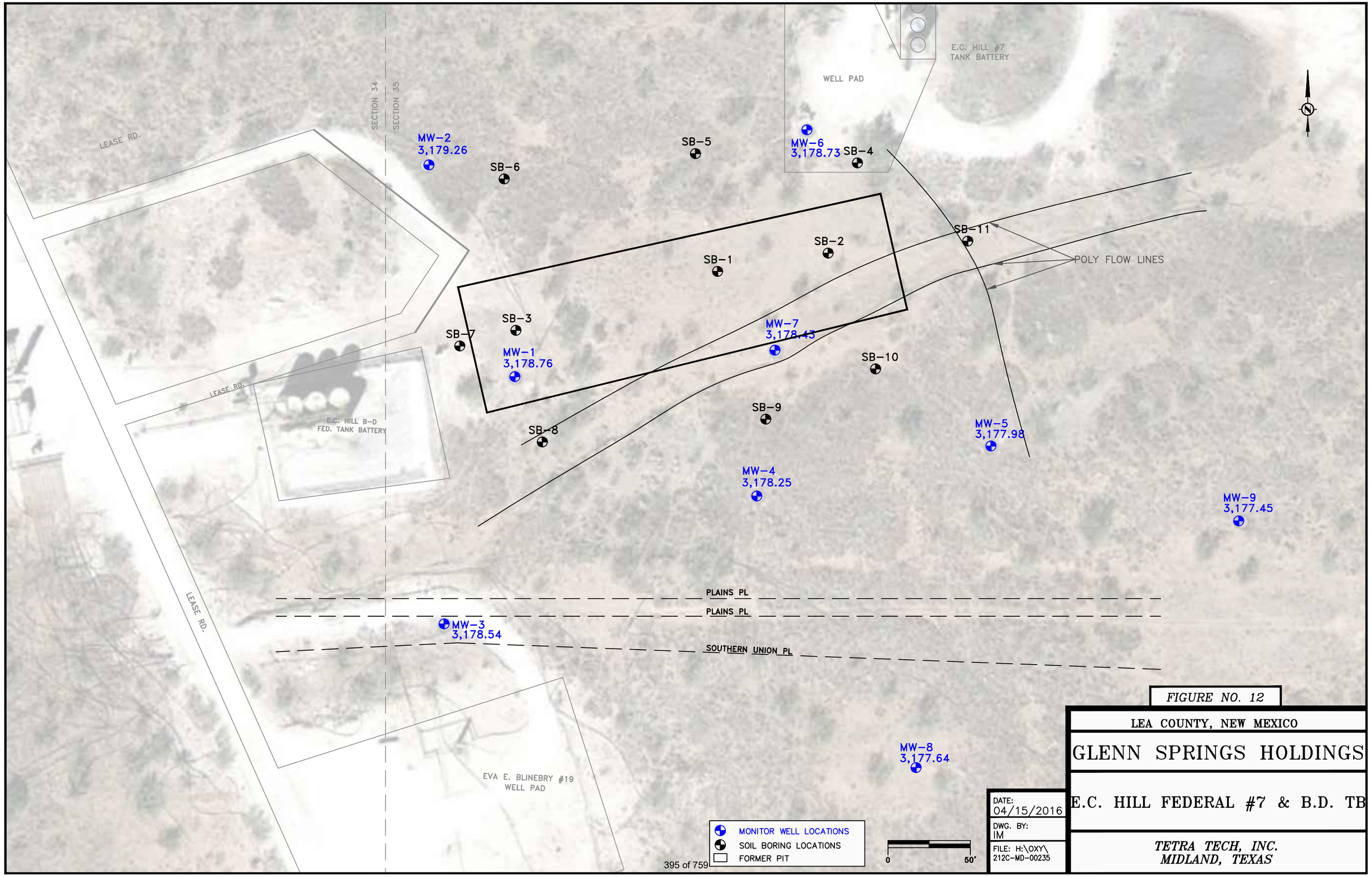


FIGURE NO. 12

LEA COUNTY, NEW MEXICO

GLENN SPRINGS HOLDINGS

E.C. HILL FEDERAL #7 & B.D. TB

DATE: 04/15/2016
DWG. BY: IM
FILE: H:\OXY\212C-MD-00235

TETRA TECH, INC.
MIDLAND, TEXAS

Received by OCD: 4/13/2020 9:00:46 AM

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SAMPLE LOG

Client:	Oxy / Glenn Springs Holdings	TD:	71'	
Site Name	E.C. Hill B-D and #7 Tank Battery	Screen Depth:	NA	
Boring/Well:	SB-1	DTW:	NA	
GPS	32.26494°, -103.14156°			
Project #:	212C-MD-00235			
Total Depth	71'			
Date Installed:	9/30/2015			

DEPTH (Ft)	SAMPLE DESCRIPTION	NOTES	PID (ppm)	CONDUCTIVITY (ppm)
5-6	Saturated black sand with HC color and odor	Strong HC odor	161	1,010
10-11	Tan/gray sand, fine with HC odor	HC odor	169	3,520
15-16	Moist gray sand, fine with HC odor	HC odor	115	6,550
20-21	Moist brown sand, fine with HC odor	HC odor	74	6,730
25-26	Moist brown sand, fine with HC odor	HC odor	72	3,390
30-31	Moist gray sand, fine with HC odor	HC odor	46	4,830
40-41	Brown/red sand, fine, moist	No Stain or odor	26	6,540
50-51	Brown/red sand, fine, moist	No Stain or odor	5.7	6,670
60-61	Tan/pink sand, fine, dry	No Stain or odor	4.9	4,530
70-71	Brown/red sand, fine, moist	No Stain or odor	3.0	3,800

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SAMPLE LOG

Client:	Oxy / Glenn Springs Holdings	TD:	31'	
Site Name	E.C. Hill B-D and #7 Tank Battery	Screen Depth:	NA	
Boring/Well:	SB-2	DTW:	NA	
GPS	32.26496°, -103.14139°			
Project #:	212C-MD-00235			
Total Depth	31'			
Date Installed:	9/30/2015			

DEPTH (Ft)	SAMPLE DESCRIPTION	NOTES	PID (ppm)	CONDUCTIVITY (ppm)
5-6	*Saturated black sand with strong HC odor*	*Strong HC odor*	*41.5*	*835*
10-11	*Tan sand, fine, moist with HC odor*	*HC odor*	*6.8*	*1,590*
15-16		*HC odor*	*6.6*	*1,950*
20-21	*Tan/Brown sand, fine, moist with no HC odor*	*No Stain or odor*	*1.2*	*1,750*
25-26	*Brown/red sand, fine, moist with no HC odor*	*No Stain or odor*	*1.1*	*1,240*
30-31	*Brown/red sand, fine, moist with no HC odor*	*No Stain or odor*	*1.5*	*1,340*

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SAMPLE LOG

Client:	Oxy / Glenn Springs Holdings	TD:	71'	
Site Name	E.C. Hill B-D and #7 Tank Battery	Screen Depth:	NA	
Boring/Well:	SB-3	DTW:	NA	
GPS	32.26491°, -103.14202°			
Project #:	212C-MD-00235			
Total Depth	71'			
Date Installed:	9/30/2015			

DEPTH (Ft)	SAMPLE DESCRIPTION	NOTES	PID (ppm)	CONDUCTIVITY (ppm)
5-6	Saturated black sand with strong HC odor	Strong HC odor	82.4	1,170
10-11	Dark brown sand, fine, moist with strong HC odor	Strong HC odor	629	3,910
15-16	Tan sand, fine, moist with HC odor	HC odor	173	4,740
20-21	Tan sand, fine, moist with HC odor	HC odor	214	5,270
25-26	Tan sand, fine, moist with light HC odor	HC odor	65	3,600
30-31	Brown/red sand, fine, dry	No stain or odor	38	5,640
40-41	Brown/red sand, fine, moist	No stain or odor	103	5,660
50-51	Brown/red sand, fine, dry	No stain or odor	70	5,030
60-61	Tan sand, fine, dry	No stain or odor	82	7,100
70-71	Brown/red sand, fine, moist	No stain or odor	9.9	4,460

SAMPLE LOG

Client:	Oxy / Glenn Springs Holdings	TD:	20'	
Site Name	E.C. Hill B-D and #7 Tank Battery	Screen Depth:	NA	
Boring/Well:	SB-4	DTW:	NA	
GPS	32.26513°, -103.14141°			
Project #:	212C-MD-00235			
Total Depth	20'			
Date Installed:	10/1/2015			

DEPTH (Ft)	SAMPLE DESCRIPTION	NOTES	PID (ppm)	CONDUCTIVITY (ppm)
5-6	*Brown/red sand, fine, dry with no odor*	*No Stain or odor*	*1.4*	*947*
10-11	*Brown sand, fine, moist with no odor*	*No Stain or odor*	*2.9*	*1,830*
15-16	*Tan/pink sand, fine, moist with no odor*	*No Stain or odor*	*0.4*	*1,860*
19-20	*Brown sand, fine, moist with no odor*	*No Stain or odor*	*0.1*	*1,570*

SAMPLE LOG

Client:	Oxy / Glenn Springs Holdings	TD:	20'	
Site Name	E.C. Hill B-D and #7 Tank Battery	Screen Depth:	NA	
Boring/Well:	SB-5	DTW:	NA	
GPS	32.26513°, -103.14165°			
Project #:	212C-MD-00235			
Total Depth	20'			
Date Installed:	10/1/2015			

DEPTH (Ft)	SAMPLE DESCRIPTION	NOTES	PID (ppm)	CONDUCTIVITY (ppm)
5-6	*Brown/red sand, fine, dry with no odor*	*No Stain or odor*	*0.1*	*678*
10-11	*Brown sand, fine, moist with no odor*	*No Stain or odor*	*0.2*	*1,330*
15-16	*Tan/pink sand, fine, moist with no odor*	*No Stain or odor*	*0.1*	*1,550*
19-20	*Tan sand, fine, moist with no odor*	*No Stain or odor*	*0.1*	-

SAMPLE LOG

Client:	Oxy / Glenn Springs Holdings	TD:	20'	
Site Name	E.C. Hill B-D and #7 Tank Battery	Screen Depth:	NA	
Boring/Well:	SB-6	DTW:	NA	
GPS	32.26515°, -103.14208°			
Project #:	212C-MD-00235			
Total Depth	20'			
Date Installed:	10/1/2015			

DEPTH (Ft)	SAMPLE DESCRIPTION	NOTES	PID (ppm)	CONDUCTIVITY (ppm)
5-6	*Brown/red sand, fine, dry with no odor*	*No Stain or odor*	*0.2*	*672*
10-11	*Tan/pink sand, fine, dry with no odor*	*No Stain or odor*	*1.0*	*1,430*
15-16	*Tan/pink sand, fine, moist with no odor*	*No Stain or odor*	*0.3*	*1,670*
19-20	*Brown/red sand, fine, moist with no odor*	*No Stain or odor*	*0.1*	*2,030*

SAMPLE LOG

Client:	Oxy / Glenn Springs Holdings	TD:	20'	
Site Name	E.C. Hill B-D and #7 Tank Battery	Screen Depth:	NA	
Boring/Well:	SB-7	DTW:	NA	
GPS	32.26483°, -103.14211°			
Project #:	212C-MD-00235			
Total Depth	20'			
Date Installed:	10/1/2015			

DEPTH (Ft)	SAMPLE DESCRIPTION	NOTES	PID (ppm)	CONDUCTIVITY (ppm)
5-6	*Dark brown sand, fine, moist, weathered*	*Weathered*	*2.8*	*2,970*
10-11	*Tan/brown sand, fine, moist with no odor*	*No Stain or odor*	*107*	*3,090*
15-16	*Tan/brown sand, fine, moist with no odor*	*No Stain or odor*	*2.3*	*3,400*
19-20	*Brown/red sand, fine, moist with no odor*	*No Stain or odor*	*0.8*	*1,670*

SAMPLE LOG

Client:	Oxy / Glenn Springs Holdings	TD:	20'	
Site Name	E.C. Hill B-D and #7 Tank Battery	Screen Depth:	NA	
Boring/Well:	SB-8	DTW:	NA	
GPS	32.26470°, -103.14193°			
Project #:	212C-MD-00235			
Total Depth	20'			
Date Installed:	10/1/2015			

DEPTH (Ft)	SAMPLE DESCRIPTION	NOTES	PID (ppm)	CONDUCTIVITY (ppm)
5-6	*Brown/red sand, fine, moist with no odor*	*No Stain or odor*	*2.8*	*1,040*
10-11	*Tan sand, fine, moist with no odor*	*No Stain or odor*	*0.5*	*2,930*
15-16	*Tan sand, fine, moist with no odor*	*No Stain or odor*	*0.1*	*3,080*
19-20	*Tan sand, fine, moist with no odor*	*No Stain or odor*	*0.4*	*2,760*

SAMPLE LOG

Client:	Oxy / Glenn Springs Holdings	TD:	20'	
Site Name	E.C. Hill B-D and #7 Tank Battery	Screen Depth:	NA	
Boring/Well:	SB-9	DTW:	NA	
GPS	32.26469°, -103.14147°			
Project #:	212C-MD-00235			
Total Depth	20'			
Date Installed:	10/1/2015			

DEPTH (Ft)	SAMPLE DESCRIPTION	NOTES	PID (ppm)	CONDUCTIVITY (ppm)
5-6	*Brown/red sand, fine, dry with no odor*	*No Stain or odor*	*1.3*	*939*
10-11	*Brown/red sand, fine with red clay intermixed*	*No Stain or odor*	*0.5*	*2,180*
15-16	*Tan sand, fine, moist with no odor*	*No Stain or odor*	*0.1*	*1,080*
19-20	*Tan sand, fine, dry with no odor*	*No Stain or odor*	*0.1*	*1,780*

SAMPLE LOG

Client:	Oxy / Glenn Springs Holdings	TD:	20'	
Site Name	E.C. Hill B-D and #7 Tank Battery	Screen Depth:	NA	
Boring/Well:	SB-10	DTW:	NA	
GPS	32.26475°, -103.14120°			
Project #:	212C-MD-00235			
Total Depth	20'			
Date Installed:	10/1/2015			

DEPTH (Ft)	SAMPLE DESCRIPTION	NOTES	PID (ppm)	CONDUCTIVITY (ppm)
5-6	*Brown/red sand, fine, dry with no odor*	*No Stain or odor*	*0.6*	*542*
10-11	*Brown/red sand, fine, dry with no odor*	*No Stain or odor*	*1.4*	*2,020*
15-16	*Tan sand, fine, moist with no odor*	*No Stain or odor*	*0.2*	*1,130*
19-20	*Tan sand, fine, dry with no odor*	*No Stain or odor*	*0.1*	*1,540*

SAMPLE LOG

Client:	Oxy / Glenn Springs Holdings	TD:	20'	
Site Name	E.C. Hill B-D and #7 Tank Battery	Screen Depth:	NA	
Boring/Well:	SB-11	DTW:	NA	
GPS	32.26500°, -103.14113°			
Project #:	212C-MD-00235			
Total Depth	20'			
Date Installed:	10/1/2015			

DEPTH (Ft)	SAMPLE DESCRIPTION	NOTES	PID (ppm)	CONDUCTIVITY (ppm)
5-6	*Brown/red sand, fine, dry with no odor*	*No Stain or odor*	*0.3*	*1,350*
10-11	*Tan sand, fine, dry with no odor*	*No Stain or odor*	*0.5*	*2,120*
15-16	*Tan sand, fine, moist with no odor*	*No Stain or odor*	*0.1*	*1,960*
19-20	*Brown/red sand, fine, dry with no odor*	*No Stain or odor*	*0.1*	*1,740*

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Table 3
Soil Boring Analytical Data
Oxy USA, Inc.
E.C. Hill B-D & Federal #7 Tank Battery
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	Total						
SB-1	9/30/2015	5-6	X		44	1,900	**1,944**	<0.0060	<0.0060	0.018	0.057	0.075	194
	"	10-11	X		17	12,000	**12,017**	0.090	0.039	0.048	0.17	0.129	**1,960**
	"	15-16	X		9.5	5,700	**5,710**	0.048	0.017	0.032	0.12	0.217	**5,510**
	"	20-21	X		-	-	-	-	-	-	-	-	**1,940**
	"	25-26	X		-	-	-	-	-	-	-	-	-
	"	30-31	X		6.7	1,900	**1,907**	-	-	-	-	-	**2,060**
	"	40-41	X		-	-	-	-	-	-	-	-	**2,260**
	"	50-51	X		0.072	87	87.1	-	-	-	-	-	**2,860**
	"	60-61	X		-	-	-	-	-	-	-	-	**1,740**
	"	70-71	X		<0.063	31	31	-	-	-	-	-	**1,180**
SB-2	9/30/2015	5-6	X		20	6,700	**6,720**	0.0075	0.0059	0.024	0.057	0.094	173
	"	10-11	X		<0.059	9,100	**9,100**	<0.0059	<0.0059	<0.0059	<0.012	<0.012	**400**
	"	15-16	X		-	-	-	-	-	-	-	-	-
	"	20-21	X		<0.060	9.0	9.0	-	-	-	-	-	203
	"	25-26	X		<0.050	6.2	6.2	-	-	-	-	-	-
	"	30-31	X		-	-	-	-	-	-	-	-	**437**

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Table 3
Soil Boring Analytical Data
Oxy USA, Inc.
E.C. Hill B-D & Federal #7 Tank Battery
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	Total						
SB-3	9/30/2015	5-6	X		36	3,500	**3,536**	<0.0055	<0.0055	0.049	0.02	0.069	**429**
	"	10-11	X		30	4,800	**4,830**	0.015	0.042	0.19	2.5	2.75	**2,610**
	"	15-16	X		19	4,000	**4,019**	<0.0061	0.019	0.11	0.48	0.609	**2,590**
	"	20-21	X		-	-	-	-	-	-	-	-	**1,260**
	"	25-26	X		-	-	-	-	-	-	-	-	-
	"	30-31	X		0.18	500	500	-	-	-	-	-	**3,570**
	"	40-41	X		-	-	-	-	-	-	-	-	**2,640**
	"	50-51	X		0.96	3,400	**3,401**	-	-	-	-	-	**3,050**
	"	60-61	X		-	-	-	-	-	-	-	-	**3,710**
	"	70-71	X		0.069	73	73.1	-	-	-	-	-	**1,230**
SB-4	9/30/2015	5-6	X		<0.059	2.3	2.3	<0.0059	<0.0059	<0.0059	<0.012	<0.12	61.1
	"	10-11	X		<0.061	7.4	7.4	<0.0060	<0.0060	<0.0060	<0.012	<0.012	162
	"	15-16	X		-	-	-	-	-	-	-	-	**327**
	"	20-21	X		-	-	-	-	-	-	-	-	71.9
SB-5	9/30/2015	5-6	X		<0.062	<2.1	<2.1	<0.0062	<0.0062	<0.0062	<0.012	<0.012	14.5
	"	10-11	X		<0.068	<2.3	<2.3	<0.0069	<0.0069	<0.0069	<0.014	<0.014	46.9
	"	15-16	X		-	-	-	-	-	-	-	-	84.3
	"	19-20	X		-	-	-	-	-	-	-	-	54.5

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Table 3
Soil Boring Analytical Data
Oxy USA, Inc.
E.C. Hill B-D & Federal #7 Tank Battery
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	Total						
SB-6	9/30/2015	5-6	X		<0.063	<2.1	<2.1	<0.0063	<0.0063	<0.0063	<0.013	<0.013	9.24
	"	10-11	X		<0.059	9.3	9.3	<0.0060	<0.0060	<0.0060	<0.012	<0.012	80.1
	"	15-16	X		-	-	-	-	-	-	-	-	67.2
	"	19-20	X		-	-	-	-	-	-	-	-	55.6
SB-7	9/30/2015	5-6	X		<0.056	250	250	<0.0056	<0.0056	<0.0056	<0.011	<0.011	**1,050**
	"	10-11	X		3.7	1,100	**1,104**	<0.0060	<0.0060	<0.0060	<0.012	<0.012	**1,130**
	"	15-16	X		<0.056	3.9	3.9	-	-	-	-	-	**811**
	"	19-20	X		<0.055	3.5	3.5	-	-	-	-	-	**450**
SB-8	9/30/2015	5-6	X		<0.063	<2.1	<2.1	<0.0060	<0.0060	<0.0060	<0.012	<0.012	44.8
	"	10-11	X		<0.058	<2.0	<2.0	<0.0058	<0.0058	<0.0058	<0.012	<0.012	**1,070**
	"	15-16	X		-	-	-	-	-	-	-	-	**848**
	"	19-20	X		-	-	-	-	-	-	-	-	**530**
SB-9	9/30/2015	5-6	X		<0.052	11	11	<0.0051	<0.0051	<0.0051	<0.010	<0.010	10.7
	"	10-11	X		<0.055	30	30	<0.0055	<0.0055	<0.0055	<0.011	<0.011	86.7
	"	15-16	X		-	-	-	-	-	-	-	-	207
	"	19-20	X		-	-	-	-	-	-	-	-	210

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Received by OCD: 4/13/2020 9:00:46 AM

Table 3
Soil Boring Analytical Data
Oxy USA, Inc.
E.C. Hill B-D & Federal #7 Tank Battery
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			In-Situ	Removed	GRO	DRO	Total						
SB-10	9/30/2015	5-6	X		<0.050	<1.7	<1.7	<0.0049	<0.0049	<0.0049	<0.0098	<0.0098	7.88
	"	10-11	X		<0.052	4.6	4.6	<0.0052	<0.0052	<0.0052	<0.010	<0.010	13.4
	"	15-16	X		-	-	-	-	-	-	-	-	35.9
	"	19-20	X		-	-	-	-	-	-	-	-	**627**
SB-11	9/30/2015	5-6	X		<0.050	6.2	6.2	<0.0049	<0.0049	<0.0049	<0.0098	<0.0098	14.8
	"	10-11	X		<0.054	60	60	<0.0054	<0.0054	<0.0054	<0.011	<0.011	**793**
	"	15-16	X		-	-	-	-	-	-	-	-	**545**
	"	19-20	X		-	-	-	-	-	-	-	-	**361**

(-) Not Analyzed

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

October 20, 2015

Angela Bown
Glenn Springs Holdings, Inc.
C/O GHD
PO Box 485
Addison, TX 75001

Work Order: **HS15100391**

Laboratory Results for: **55627DM GSHI PXP Hill EC Federal 7 TB**

Dear Angela,

ALS Environmental received 59 sample(s) on Oct 09, 2015 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: Dane.Wacasey
Dane J. Wacasey

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Work Order: HS15100391

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS15100391-01	SB-1 5-6'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-02	SB-1 10-11'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-03	SB-1 15-16'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-04	SB-1 20-21'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-05	SB-1 25-26'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☑
HS15100391-06	SB-1 30-31'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-07	SB-1 40-41'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-08	SB-1 50-51'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-09	SB-1 60-61'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-10	SB-1 70-71'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-11	SB-2 5-6'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-12	SB-2 10-11'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-13	SB-2 15-16'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☑
HS15100391-14	SB-2 20-21'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-15	SB-2 25-26'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-16	SB-2 30-31'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-17	SB-3 5-6'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-18	SB-3 10-11'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-19	SB-3 15-16'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-20	SB-3 20-21'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-21	SB-3 25-26'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☑
HS15100391-22	SB-3 30-31'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-23	SB-3 40-41'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-24	SB-3 50-51'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-25	SB-3 60-61'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-26	SB-3 70-71'	Soil		30-Sep-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-27	SB-4 5-6'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Work Order: HS15100391

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS15100391-28	SB-4 10-11'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-29	SB-4 15-16'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-30	SB-4 20-21'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-31	SB-5 5-6'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-32	SB-5 10-11'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-33	SB-5 15-16'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-34	SB-5 19-20'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-35	SB-6 5-6'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-36	SB-6 10-11'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-37	SB-6 15-16'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-38	SB-6 19-20'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-39	SB-7 5-6'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-40	SB-7 10-11'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-41	SB-7 15-16'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-42	SB-7 19-20'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-43	SB-8 5-6'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-44	SB-8 10-11'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-45	SB-8 15-16'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-46	SB-8 19-20'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-47	SB-9 5-6'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-48	SB-9 10-11'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-49	SB-9 15-16'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-50	SB-9 19-20'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-51	SB-10 5-6'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-52	SB-10 10-11'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-53	SB-10 15-16'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-54	SB-10 19-20'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Work Order: HS15100391

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS15100391-55	SB-11 5-6'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-56	SB-11 10-11'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-57	SB-11 15-16'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-58	SB-11 19-20'	Soil		01-Oct-2015 00:00	09-Oct-2015 08:44	☐
HS15100391-59	Trip Blank	Water	10/05/2015-12	30-Sep-2015 00:00	09-Oct-2015 08:44	☐

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Work Order: HS15100391

Work Order Comments

• Additional analysis was requested for select samples on October 13, 2015 via email from the client.

GC Semivolatiles by Method SW8015M

Batch ID: 98015

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

Batch ID: 98031

Sample ID: **SB-3 50-51' (HS15100391-24)**
• MS/MSD failed recovery limits for TPH (Diesel Range) and surrogate 2-Fluorobiphenyl due to matrix effect.

GC Volatiles by Method SW8015

Batch ID: R263098, R263109

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

GCMS Volatiles by Method SW8260

Batch ID: R262859

Sample ID: **HS15100303-06**
• MS and MSD are for an unrelated sample.

Batch ID: R262848

Sample ID: **SB-11 10-11' (HS15100391-56)**
• MS/MSD failed recovery limits due to matrix effect.

Batch ID: R262855

Sample ID: **SB-2 10-11' (HS15100391-12)**
• MS/MSD failed recovery limits due to matrix effect. Furthermore, due to non-homgeneity of the soil matrix, the MSD RPD criterion was exceeded.

Wet Chemistry by Method SW9056

Batch ID: 98036

Sample ID: **SB-3 60-61' (HS15100391-25)**
• MSD failed recovery limits due to matrix effect. Furthermore, due to non-homgeneity of the soil matrix, the MSD RPD criterion was exceeded.

WetChemistry by Method SW3550

Batch ID: R262872,R262873,R262898

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

WetChemistry by Method SW9056

Batch ID: 98035,98037

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-1 5-6'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-01
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	U		0.0060	mg/Kg-dry	1	12-Oct-2015 09:49
Ethylbenzene	**0.018**		**0.0060**	**mg/Kg-dry**	1	12-Oct-2015 09:49
m,p-Xylene	**0.042**		**0.012**	**mg/Kg-dry**	1	12-Oct-2015 09:49
o-Xylene	**0.014**		**0.0060**	**mg/Kg-dry**	1	12-Oct-2015 09:49
Toluene	U		0.0060	mg/Kg-dry	1	12-Oct-2015 09:49
Xylenes, Total	**0.057**		**0.012**	**mg/Kg-dry**	1	12-Oct-2015 09:49
Surr: 1,2-Dichloroethane-d4	*89.6*		*70-128*	*%REC*	*1*	*12-Oct-2015 09:49*
Surr: 4-Bromofluorobenzene	*116*		*73-126*	*%REC*	*1*	*12-Oct-2015 09:49*
Surr: Dibromofluoromethane	*96.6*		*71-128*	*%REC*	*1*	*12-Oct-2015 09:49*
Surr: Toluene-d8	*112*		*73-127*	*%REC*	*1*	*12-Oct-2015 09:49*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**194**		**5.71**	**mg/Kg-dry**	1	14-Oct-2015 12:20
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	**44**		**0.060**	**mg/Kg-dry**	1	14-Oct-2015 13:18
Surr: 4-Bromofluorobenzene	*911*	*S*	*70-130*	*%REC*	*1*	*14-Oct-2015 13:18*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**16.5**		**0.0100**	**wt%**	1	12-Oct-2015 13:43
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 13-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**1,900**		**200**	**mg/Kg-dry**	100	16-Oct-2015 19:09
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-135*	*%REC*	*100*	*16-Oct-2015 19:09*

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

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-1 10-11'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-02
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	**0.090**		**0.0057**	**mg/Kg-dry**	1	12-Oct-2015 10:59
Ethylbenzene	**0.048**		**0.0057**	**mg/Kg-dry**	1	12-Oct-2015 10:59
m,p-Xylene	**0.11**		**0.011**	**mg/Kg-dry**	1	12-Oct-2015 10:59
o-Xylene	**0.058**		**0.0057**	**mg/Kg-dry**	1	12-Oct-2015 10:59
Toluene	**0.039**		**0.0057**	**mg/Kg-dry**	1	12-Oct-2015 10:59
Xylenes, Total	**0.17**		**0.011**	**mg/Kg-dry**	1	12-Oct-2015 10:59
Surr: 1,2-Dichloroethane-d4	*103*		*70-128*	*%REC*	*1*	*12-Oct-2015 10:59*
Surr: 4-Bromofluorobenzene	*100*		*73-126*	*%REC*	*1*	*12-Oct-2015 10:59*
Surr: Dibromofluoromethane	*101*		*71-128*	*%REC*	*1*	*12-Oct-2015 10:59*
Surr: Toluene-d8	*99.2*		*73-127*	*%REC*	*1*	*12-Oct-2015 10:59*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**1,960**		**26.1**	**mg/Kg-dry**	5	14-Oct-2015 13:24
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	**17**		**0.057**	**mg/Kg-dry**	1	14-Oct-2015 11:42
Surr: 4-Bromofluorobenzene	*690*	*S*	*70-130*	*%REC*	*1*	*14-Oct-2015 11:42*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**12.0**		**0.0100**	**wt%**	1	12-Oct-2015 13:43
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 13-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**12,000**		**390**	**mg/Kg-dry**	100	16-Oct-2015 19:33
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-135*	*%REC*	*100*	*16-Oct-2015 19:33*

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

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-1 15-16'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-03
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	**0.048**		**0.0062**	**mg/Kg-dry**	1	10-Oct-2015 22:05
Ethylbenzene	**0.032**		**0.0062**	**mg/Kg-dry**	1	10-Oct-2015 22:05
m,p-Xylene	**0.076**		**0.012**	**mg/Kg-dry**	1	10-Oct-2015 22:05
o-Xylene	**0.040**		**0.0062**	**mg/Kg-dry**	1	10-Oct-2015 22:05
Toluene	**0.017**		**0.0062**	**mg/Kg-dry**	1	10-Oct-2015 22:05
Xylenes, Total	**0.12**		**0.012**	**mg/Kg-dry**	1	10-Oct-2015 22:05
Surr: 1,2-Dichloroethane-d4	*83.2*		*70-128*	*%REC*	*1*	*10-Oct-2015 22:05*
Surr: 4-Bromofluorobenzene	*96.1*		*73-126*	*%REC*	*1*	*10-Oct-2015 22:05*
Surr: Dibromofluoromethane	*81.0*		*71-128*	*%REC*	*1*	*10-Oct-2015 22:05*
Surr: Toluene-d8	*97.7*		*73-127*	*%REC*	*1*	*10-Oct-2015 22:05*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**5,510**		**114**	**mg/Kg-dry**	20	14-Oct-2015 13:45
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	**9.5**		**0.063**	**mg/Kg-dry**	1	14-Oct-2015 11:58
Surr: 4-Bromofluorobenzene	*577*	*S*	*70-130*	*%REC*	*1*	*14-Oct-2015 11:58*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**20.9**		**0.0100**	**wt%**	1	12-Oct-2015 13:43
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 13-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**5,700**		**210**	**mg/Kg-dry**	100	16-Oct-2015 19:57
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-135*	*%REC*	*100*	*16-Oct-2015 19:57*

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

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-1 20-21'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-04
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**1,940**		**59.1**	**mg/Kg-dry**	10	14-Oct-2015 14:06
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**19.1**		**0.0100**	**wt%**	1	12-Oct-2015 13:43

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-1 30-31'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-06
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**2,060**		**27.1**	**mg/Kg-dry**	5	14-Oct-2015 14:28
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	**6.7**		**0.057**	**mg/Kg-dry**	1	14-Oct-2015 12:46
Surr: 4-Bromofluorobenzene	*76.4*		*70-130*	*%REC*	*1*	*14-Oct-2015 12:46*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**12.8**		**0.0100**	**wt%**	1	12-Oct-2015 13:43
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 13-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**1,900**		**190**	**mg/Kg-dry**	100	16-Oct-2015 20:21
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-135*	*%REC*	*100*	*16-Oct-2015 20:21*

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-1 40-41'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-07
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**2,260**		**24.0**	**mg/Kg-dry**	5	14-Oct-2015 15:31
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**4.21**		**0.0100**	**wt%**	1	12-Oct-2015 13:43

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

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-1 50-51'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-08
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**2,860**		**29.3**	**mg/Kg-dry**	5	14-Oct-2015 15:52
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	**0.072**		**0.065**	**mg/Kg-dry**	1	14-Oct-2015 12:14
Surr: 4-Bromofluorobenzene	*84.6*		*70-130*	*%REC*	*1*	*14-Oct-2015 12:14*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**23.5**		**0.0100**	**wt%**	1	12-Oct-2015 13:43
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 13-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**87**		**11**	**mg/Kg-dry**	5	16-Oct-2015 18:45
Surr: 2-Fluorobiphenyl	*67.3*		*60-135*	*%REC*	*5*	*16-Oct-2015 18:45*

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-1 60-61'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-09
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**1,740**		**27.5**	**mg/Kg-dry**	5	14-Oct-2015 16:14
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**18.4**		**0.0100**	**wt%**	1	12-Oct-2015 13:43

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-1 70-71'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-10
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**1,180**		**6.25**	**mg/Kg-dry**	1	14-Oct-2015 16:35
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	U		0.063	mg/Kg-dry	1	14-Oct-2015 12:30
Surr: 4-Bromofluorobenzene	*78.3*		*70-130*	*%REC*	*1*	*14-Oct-2015 12:30*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**21.0**		**0.0100**	**wt%**	1	12-Oct-2015 13:43
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 13-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**31**		**2.1**	**mg/Kg-dry**	1	14-Oct-2015 22:54
Surr: 2-Fluorobiphenyl	*79.3*		*60-135*	*%REC*	*1*	*14-Oct-2015 22:54*

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-2 5-6'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-11
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	**0.0075**		**0.0057**	**mg/Kg-dry**	1	12-Oct-2015 10:12
Ethylbenzene	**0.024**		**0.0057**	**mg/Kg-dry**	1	12-Oct-2015 10:12
m,p-Xylene	**0.037**		**0.011**	**mg/Kg-dry**	1	12-Oct-2015 10:12
o-Xylene	**0.020**		**0.0057**	**mg/Kg-dry**	1	12-Oct-2015 10:12
Toluene	**0.0059**		**0.0057**	**mg/Kg-dry**	1	12-Oct-2015 10:12
Xylenes, Total	**0.057**		**0.011**	**mg/Kg-dry**	1	12-Oct-2015 10:12
Surr: 1,2-Dichloroethane-d4	*90.7*		*70-128*	*%REC*	*1*	*12-Oct-2015 10:12*
Surr: 4-Bromofluorobenzene	*96.5*		*73-126*	*%REC*	*1*	*12-Oct-2015 10:12*
Surr: Dibromofluoromethane	*99.7*		*71-128*	*%REC*	*1*	*12-Oct-2015 10:12*
Surr: Toluene-d8	*102*		*73-127*	*%REC*	*1*	*12-Oct-2015 10:12*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**173**		**5.61**	**mg/Kg-dry**	1	14-Oct-2015 16:56
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	**20**		**0.059**	**mg/Kg-dry**	1	14-Oct-2015 13:02
Surr: 4-Bromofluorobenzene	*297*	*S*	*70-130*	*%REC*	*1*	*14-Oct-2015 13:02*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**15.9**		**0.0100**	**wt%**	1	12-Oct-2015 13:43
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 13-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**6,700**		**810**	**mg/Kg-dry**	100	16-Oct-2015 20:45
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-135*	*%REC*	*100*	*16-Oct-2015 20:45*

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

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-2 10-11'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-12
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	U		0.0059	mg/Kg-dry	1	12-Oct-2015 10:36
Ethylbenzene	U		0.0059	mg/Kg-dry	1	12-Oct-2015 10:36
m,p-Xylene	U		0.012	mg/Kg-dry	1	12-Oct-2015 10:36
o-Xylene	U		0.0059	mg/Kg-dry	1	12-Oct-2015 10:36
Toluene	U		0.0059	mg/Kg-dry	1	12-Oct-2015 10:36
Xylenes, Total	U		0.012	mg/Kg-dry	1	12-Oct-2015 10:36
Surr: 1,2-Dichloroethane-d4	*92.0*		*70-128*	*%REC*	*1*	*12-Oct-2015 10:36*
Surr: 4-Bromofluorobenzene	*98.0*		*73-126*	*%REC*	*1*	*12-Oct-2015 10:36*
Surr: Dibromofluoromethane	*94.1*		*71-128*	*%REC*	*1*	*12-Oct-2015 10:36*
Surr: Toluene-d8	*103*		*73-127*	*%REC*	*1*	*12-Oct-2015 10:36*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**400**		**5.43**	**mg/Kg-dry**	1	14-Oct-2015 17:17
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	U		0.059	mg/Kg-dry	1	14-Oct-2015 14:13
Surr: 4-Bromofluorobenzene	*31.5*	*S*	*70-130*	*%REC*	*1*	*14-Oct-2015 14:13*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**17.2**		**0.0100**	**wt%**	1	12-Oct-2015 13:43
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 13-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**9,100**		**410**	**mg/Kg-dry**	100	16-Oct-2015 21:09
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-135*	*%REC*	*100*	*16-Oct-2015 21:09*

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-2 20-21'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-14
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**203**		**5.56**	**mg/Kg-dry**	1	14-Oct-2015 17:38
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	U		0.060	mg/Kg-dry	1	14-Oct-2015 14:29
Surr: 4-Bromofluorobenzene	*75.1*		*70-130*	*%REC*	*1*	*14-Oct-2015 14:29*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**17.2**		**0.0100**	**wt%**	1	12-Oct-2015 13:43
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 13-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**9.0**		**2.1**	**mg/Kg-dry**	1	15-Oct-2015 00:06
Surr: 2-Fluorobiphenyl	*99.0*		*60-135*	*%REC*	*1*	*15-Oct-2015 00:06*

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-2 25-26'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-15
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	U		0.050	mg/Kg	1	14-Oct-2015 14:45
Surr: 4-Bromofluorobenzene	*78.7*		*70-130*	*%REC*	*1*	*14-Oct-2015 14:45*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 13-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**6.2**		**1.7**	**mg/Kg**	1	15-Oct-2015 00:30
Surr: 2-Fluorobiphenyl	*91.2*		*60-135*	*%REC*	*1*	*15-Oct-2015 00:30*

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-2 30-31'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-16
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**437**		**5.47**	**mg/Kg-dry**	1	14-Oct-2015 17:59
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**17.2**		**0.0100**	**wt%**	1	12-Oct-2015 13:43

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-3 5-6'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-17
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	U		0.0055	mg/Kg-dry	1	11-Oct-2015 05:51
Ethylbenzene	**0.049**		**0.0055**	**mg/Kg-dry**	1	11-Oct-2015 05:51
m,p-Xylene	**0.017**		**0.011**	**mg/Kg-dry**	1	11-Oct-2015 05:51
o-Xylene	U		0.0055	mg/Kg-dry	1	11-Oct-2015 05:51
Toluene	U		0.0055	mg/Kg-dry	1	11-Oct-2015 05:51
Xylenes, Total	**0.02**		**0.011**	**mg/Kg-dry**	1	11-Oct-2015 05:51
Surr: 1,2-Dichloroethane-d4	*93.9*		*70-128*	*%REC*	*1*	*11-Oct-2015 05:51*
Surr: 4-Bromofluorobenzene	*84.4*		*73-126*	*%REC*	*1*	*11-Oct-2015 05:51*
Surr: Dibromofluoromethane	*101*		*71-128*	*%REC*	*1*	*11-Oct-2015 05:51*
Surr: Toluene-d8	*102*		*73-127*	*%REC*	*1*	*11-Oct-2015 05:51*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**429**		**4.92**	**mg/Kg-dry**	1	14-Oct-2015 18:21
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	**36**		**0.055**	**mg/Kg-dry**	1	14-Oct-2015 16:05
Surr: 4-Bromofluorobenzene	*925*	*S*	*70-130*	*%REC*	*1*	*14-Oct-2015 16:05*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**8.77**		**0.0100**	**wt%**	1	12-Oct-2015 13:43
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 13-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**3,500**		**370**	**mg/Kg-dry**	200	16-Oct-2015 21:33
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-135*	*%REC*	*200*	*16-Oct-2015 21:33*

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

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-3 10-11'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-18
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	**0.015**		**0.0057**	**mg/Kg-dry**	1	11-Oct-2015 06:14
Ethylbenzene	**0.19**		**0.0057**	**mg/Kg-dry**	1	11-Oct-2015 06:14
m,p-Xylene	**1.6**		**0.11**	**mg/Kg-dry**	10	12-Oct-2015 09:25
o-Xylene	**0.94**		**0.057**	**mg/Kg-dry**	10	12-Oct-2015 09:25
Toluene	**0.042**		**0.0057**	**mg/Kg-dry**	1	11-Oct-2015 06:14
Xylenes, Total	**2.5**		**0.11**	**mg/Kg-dry**	10	12-Oct-2015 09:25
Surr: 1,2-Dichloroethane-d4	*97.7*		*70-128*	*%REC*	*1*	*11-Oct-2015 06:14*
Surr: 1,2-Dichloroethane-d4	*91.7*		*70-128*	*%REC*	*10*	*12-Oct-2015 09:25*
Surr: 4-Bromofluorobenzene	*101*		*73-126*	*%REC*	*1*	*11-Oct-2015 06:14*
Surr: 4-Bromofluorobenzene	*108*		*73-126*	*%REC*	*10*	*12-Oct-2015 09:25*
Surr: Dibromofluoromethane	*106*		*71-128*	*%REC*	*1*	*11-Oct-2015 06:14*
Surr: Dibromofluoromethane	*97.9*		*71-128*	*%REC*	*10*	*12-Oct-2015 09:25*
Surr: Toluene-d8	*106*		*73-127*	*%REC*	*1*	*11-Oct-2015 06:14*
Surr: Toluene-d8	*103*		*73-127*	*%REC*	*10*	*12-Oct-2015 09:25*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**2,610**		**54.8**	**mg/Kg-dry**	10	14-Oct-2015 18:42
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	**30**		**0.057**	**mg/Kg-dry**	1	14-Oct-2015 16:21
Surr: 4-Bromofluorobenzene	*1620*	*S*	*70-130*	*%REC*	*1*	*14-Oct-2015 16:21*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**12.4**		**0.0100**	**wt%**	1	12-Oct-2015 13:43
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 13-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**4,800**		**190**	**mg/Kg-dry**	100	16-Oct-2015 21:57
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-135*	*%REC*	*100*	*16-Oct-2015 21:57*

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-3 15-16'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-19
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	U		0.0061	mg/Kg-dry	1	10-Oct-2015 22:28
Ethylbenzene	**0.11**		**0.0061**	**mg/Kg-dry**	1	10-Oct-2015 22:28
m,p-Xylene	**0.29**		**0.012**	**mg/Kg-dry**	1	10-Oct-2015 22:28
o-Xylene	**0.20**		**0.0061**	**mg/Kg-dry**	1	10-Oct-2015 22:28
Toluene	**0.019**		**0.0061**	**mg/Kg-dry**	1	10-Oct-2015 22:28
Xylenes, Total	**0.48**		**0.012**	**mg/Kg-dry**	1	10-Oct-2015 22:28
Surr: 1,2-Dichloroethane-d4	*101*		*70-128*	*%REC*	*1*	*10-Oct-2015 22:28*
Surr: 4-Bromofluorobenzene	*94.1*		*73-126*	*%REC*	*1*	*10-Oct-2015 22:28*
Surr: Dibromofluoromethane	*107*		*71-128*	*%REC*	*1*	*10-Oct-2015 22:28*
Surr: Toluene-d8	*102*		*73-127*	*%REC*	*1*	*10-Oct-2015 22:28*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**2,590**		**30.1**	**mg/Kg-dry**	5	14-Oct-2015 19:45
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	**19**		**0.061**	**mg/Kg-dry**	1	14-Oct-2015 15:01
Surr: 4-Bromofluorobenzene	*1210*	*S*	*70-130*	*%REC*	*1*	*14-Oct-2015 15:01*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**20.0**		**0.0100**	**wt%**	1	12-Oct-2015 13:43
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 13-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**4,000**		**210**	**mg/Kg-dry**	100	16-Oct-2015 23:09
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-135*	*%REC*	*100*	*16-Oct-2015 23:09*

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

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-3 20-21'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-20
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**1,260**		**30.2**	**mg/Kg-dry**	5	15-Oct-2015 08:41
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**20.4**		**0.0100**	**wt%**	1	12-Oct-2015 11:58

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-3 30-31'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-22
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**3,570**		**49.2**	**mg/Kg-dry**	10	14-Oct-2015 20:28
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	**0.18**		**0.052**	**mg/Kg-dry**	1	14-Oct-2015 15:17
Surr: 4-Bromofluorobenzene	*82.4*		*70-130*	*%REC*	*1*	*14-Oct-2015 15:17*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**5.47**		**0.0100**	**wt%**	1	12-Oct-2015 11:58
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 13-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**500**		**18**	**mg/Kg-dry**	10	15-Oct-2015 14:55
Surr: 2-Fluorobiphenyl	*121*		*60-135*	*%REC*	*10*	*15-Oct-2015 14:55*

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

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-3 40-41'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-23
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**2,640**		**24.9**	**mg/Kg-dry**	5	14-Oct-2015 20:49
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**6.92**		**0.0100**	**wt%**	1	12-Oct-2015 11:58

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-3 50-51'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-24
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**3,050**		**27.1**	**mg/Kg-dry**	5	14-Oct-2015 21:10
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	**0.96**		**0.059**	**mg/Kg-dry**	1	14-Oct-2015 15:33
Surr: 4-Bromofluorobenzene	*90.6*		*70-130*	*%REC*	*1*	*14-Oct-2015 15:33*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**15.9**		**0.0100**	**wt%**	1	12-Oct-2015 11:58
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**3,400**		**200**	**mg/Kg-dry**	100	16-Oct-2015 23:57
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-135*	*%REC*	*100*	*16-Oct-2015 23:57*

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-3 60-61'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-25
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**3,710**		**62.4**	**mg/Kg-dry**	10	14-Oct-2015 22:35
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**26.7**		**0.0100**	**wt%**	1	12-Oct-2015 11:58

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

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-3 70-71'
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-26
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**1,230**		**28.7**	**mg/Kg-dry**	5	15-Oct-2015 09:03
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	**0.069**		**0.062**	**mg/Kg-dry**	1	14-Oct-2015 15:48
Surr: 4-Bromofluorobenzene	*75.9*		*70-130*	*%REC*	*1*	*14-Oct-2015 15:48*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**18.7**		**0.0100**	**wt%**	1	12-Oct-2015 11:58
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**73**		**2.1**	**mg/Kg-dry**	1	15-Oct-2015 02:54
Surr: 2-Fluorobiphenyl	*97.3*		*60-135*	*%REC*	*1*	*15-Oct-2015 02:54*

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-4 5-6'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-27
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	U		0.0059	mg/Kg-dry	1	11-Oct-2015 00:01
Ethylbenzene	U		0.0059	mg/Kg-dry	1	11-Oct-2015 00:01
m,p-Xylene	U		0.012	mg/Kg-dry	1	11-Oct-2015 00:01
o-Xylene	U		0.0059	mg/Kg-dry	1	11-Oct-2015 00:01
Toluene	U		0.0059	mg/Kg-dry	1	11-Oct-2015 00:01
Xylenes, Total	U		0.012	mg/Kg-dry	1	11-Oct-2015 00:01
Surr: 1,2-Dichloroethane-d4	*98.7*		*70-128*	*%REC*	*1*	*11-Oct-2015 00:01*
Surr: 4-Bromofluorobenzene	*88.6*		*73-126*	*%REC*	*1*	*11-Oct-2015 00:01*
Surr: Dibromofluoromethane	*105*		*71-128*	*%REC*	*1*	*11-Oct-2015 00:01*
Surr: Toluene-d8	*101*		*73-127*	*%REC*	*1*	*11-Oct-2015 00:01*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**61.1**		**5.36**	**mg/Kg-dry**	1	15-Oct-2015 00:42
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	U		0.059	mg/Kg-dry	1	14-Oct-2015 16:36
Surr: 4-Bromofluorobenzene	*78.4*		*70-130*	*%REC*	*1*	*14-Oct-2015 16:36*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**18.8**		**0.0100**	**wt%**	1	12-Oct-2015 11:58
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**2.3**		**2.1**	**mg/Kg-dry**	1	15-Oct-2015 03:18
Surr: 2-Fluorobiphenyl	*70.4*		*60-135*	*%REC*	*1*	*15-Oct-2015 03:18*

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

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-4 10-11'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-28
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	U		0.0060	mg/Kg-dry	1	11-Oct-2015 00:25
Ethylbenzene	U		0.0060	mg/Kg-dry	1	11-Oct-2015 00:25
m,p-Xylene	U		0.012	mg/Kg-dry	1	11-Oct-2015 00:25
o-Xylene	U		0.0060	mg/Kg-dry	1	11-Oct-2015 00:25
Toluene	U		0.0060	mg/Kg-dry	1	11-Oct-2015 00:25
Xylenes, Total	U		0.012	mg/Kg-dry	1	11-Oct-2015 00:25
Surr: 1,2-Dichloroethane-d4	*94.4*		*70-128*	*%REC*	*1*	*11-Oct-2015 00:25*
Surr: 4-Bromofluorobenzene	*88.5*		*73-126*	*%REC*	*1*	*11-Oct-2015 00:25*
Surr: Dibromofluoromethane	*102*		*71-128*	*%REC*	*1*	*11-Oct-2015 00:25*
Surr: Toluene-d8	*98.5*		*73-127*	*%REC*	*1*	*11-Oct-2015 00:25*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**162**		**6.01**	**mg/Kg-dry**	1	15-Oct-2015 01:03
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	U		0.061	mg/Kg-dry	1	14-Oct-2015 17:56
Surr: 4-Bromofluorobenzene	*80.3*		*70-130*	*%REC*	*1*	*14-Oct-2015 17:56*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**18.1**		**0.0100**	**wt%**	1	12-Oct-2015 11:58
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**7.4**		**2.1**	**mg/Kg-dry**	1	15-Oct-2015 03:42
Surr: 2-Fluorobiphenyl	*75.4*		*60-135*	*%REC*	*1*	*15-Oct-2015 03:42*

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-4 15-16'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-29
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**327**		**5.51**	**mg/Kg-dry**	1	15-Oct-2015 01:25
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**21.4**		**0.0100**	**wt%**	1	12-Oct-2015 11:58

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-4 20-21'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-30
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**71.9**		**4.70**	**mg/Kg-dry**	1	15-Oct-2015 01:46
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**7.02**		**0.0100**	**wt%**	1	12-Oct-2015 11:58

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-5 5-6'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-31
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	U		0.0062	mg/Kg-dry	1	11-Oct-2015 00:48
Ethylbenzene	U		0.0062	mg/Kg-dry	1	11-Oct-2015 00:48
m,p-Xylene	U		0.012	mg/Kg-dry	1	11-Oct-2015 00:48
o-Xylene	U		0.0062	mg/Kg-dry	1	11-Oct-2015 00:48
Toluene	U		0.0062	mg/Kg-dry	1	11-Oct-2015 00:48
Xylenes, Total	U		0.012	mg/Kg-dry	1	11-Oct-2015 00:48
Surr: 1,2-Dichloroethane-d4	*95.7*		*70-128*	*%REC*	*1*	*11-Oct-2015 00:48*
Surr: 4-Bromofluorobenzene	*87.7*		*73-126*	*%REC*	*1*	*11-Oct-2015 00:48*
Surr: Dibromofluoromethane	*101*		*71-128*	*%REC*	*1*	*11-Oct-2015 00:48*
Surr: Toluene-d8	*101*		*73-127*	*%REC*	*1*	*11-Oct-2015 00:48*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**14.5**		**6.21**	**mg/Kg-dry**	1	15-Oct-2015 02:07
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	U		0.062	mg/Kg-dry	1	14-Oct-2015 18:12
Surr: 4-Bromofluorobenzene	*79.0*		*70-130*	*%REC*	*1*	*14-Oct-2015 18:12*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**21.0**		**0.0100**	**wt%**	1	12-Oct-2015 11:58
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Oct-2015		Analyst: KMB
TPH (Diesel Range)	U		2.1	mg/Kg-dry	1	15-Oct-2015 04:06
Surr: 2-Fluorobiphenyl	*94.1*		*60-135*	*%REC*	*1*	*15-Oct-2015 04:06*

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-5 10-11'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-32
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	U		0.0069	mg/Kg-dry	1	11-Oct-2015 01:11
Ethylbenzene	U		0.0069	mg/Kg-dry	1	11-Oct-2015 01:11
m,p-Xylene	U		0.014	mg/Kg-dry	1	11-Oct-2015 01:11
o-Xylene	U		0.0069	mg/Kg-dry	1	11-Oct-2015 01:11
Toluene	U		0.0069	mg/Kg-dry	1	11-Oct-2015 01:11
Xylenes, Total	U		0.014	mg/Kg-dry	1	11-Oct-2015 01:11
Surr: 1,2-Dichloroethane-d4	*94.1*		*70-128*	*%REC*	*1*	*11-Oct-2015 01:11*
Surr: 4-Bromofluorobenzene	*90.4*		*73-126*	*%REC*	*1*	*11-Oct-2015 01:11*
Surr: Dibromofluoromethane	*104*		*71-128*	*%REC*	*1*	*11-Oct-2015 01:11*
Surr: Toluene-d8	*102*		*73-127*	*%REC*	*1*	*11-Oct-2015 01:11*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**46.9**		**6.42**	**mg/Kg-dry**	1	15-Oct-2015 02:28
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	U		0.068	mg/Kg-dry	1	14-Oct-2015 18:28
Surr: 4-Bromofluorobenzene	*91.6*		*70-130*	*%REC*	*1*	*14-Oct-2015 18:28*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**27.5**		**0.0100**	**wt%**	1	12-Oct-2015 11:58
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Oct-2015		Analyst: KMB
TPH (Diesel Range)	U		2.3	mg/Kg-dry	1	15-Oct-2015 04:30
Surr: 2-Fluorobiphenyl	*73.1*		*60-135*	*%REC*	*1*	*15-Oct-2015 04:30*

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-5 15-16'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-33
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**84.3**		**6.07**	**mg/Kg-dry**	1	15-Oct-2015 02:49
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**23.8**		**0.0100**	**wt%**	1	12-Oct-2015 11:58

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-5 19-20'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-34
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**54.5**		**6.05**	**mg/Kg-dry**	1	15-Oct-2015 03:11
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**17.6**		**0.0100**	**wt%**	1	12-Oct-2015 11:58

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-6 5-6'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-35
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	U		0.0063	mg/Kg-dry	1	11-Oct-2015 01:34
Ethylbenzene	U		0.0063	mg/Kg-dry	1	11-Oct-2015 01:34
m,p-Xylene	U		0.013	mg/Kg-dry	1	11-Oct-2015 01:34
o-Xylene	U		0.0063	mg/Kg-dry	1	11-Oct-2015 01:34
Toluene	U		0.0063	mg/Kg-dry	1	11-Oct-2015 01:34
Xylenes, Total	U		0.013	mg/Kg-dry	1	11-Oct-2015 01:34
Surr: 1,2-Dichloroethane-d4	*99.4*		*70-128*	*%REC*	*1*	*11-Oct-2015 01:34*
Surr: 4-Bromofluorobenzene	*90.7*		*73-126*	*%REC*	*1*	*11-Oct-2015 01:34*
Surr: Dibromofluoromethane	*102*		*71-128*	*%REC*	*1*	*11-Oct-2015 01:34*
Surr: Toluene-d8	*98.8*		*73-127*	*%REC*	*1*	*11-Oct-2015 01:34*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**9.24**		**6.23**	**mg/Kg-dry**	1	15-Oct-2015 04:14
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	U		0.063	mg/Kg-dry	1	14-Oct-2015 20:19
Surr: 4-Bromofluorobenzene	*77.5*		*70-130*	*%REC*	*1*	*14-Oct-2015 20:19*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**20.4**		**0.0100**	**wt%**	1	12-Oct-2015 11:58
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Oct-2015		Analyst: KMB
TPH (Diesel Range)	U		2.1	mg/Kg-dry	1	15-Oct-2015 05:42
Surr: 2-Fluorobiphenyl	*101*		*60-135*	*%REC*	*1*	*15-Oct-2015 05:42*

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-6 10-11'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-36
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	U		0.0060	mg/Kg-dry	1	11-Oct-2015 01:58
Ethylbenzene	U		0.0060	mg/Kg-dry	1	11-Oct-2015 01:58
m,p-Xylene	U		0.012	mg/Kg-dry	1	11-Oct-2015 01:58
o-Xylene	U		0.0060	mg/Kg-dry	1	11-Oct-2015 01:58
Toluene	U		0.0060	mg/Kg-dry	1	11-Oct-2015 01:58
Xylenes, Total	U		0.012	mg/Kg-dry	1	11-Oct-2015 01:58
Surr: 1,2-Dichloroethane-d4	*103*		*70-128*	*%REC*	*1*	*11-Oct-2015 01:58*
Surr: 4-Bromofluorobenzene	*94.1*		*73-126*	*%REC*	*1*	*11-Oct-2015 01:58*
Surr: Dibromofluoromethane	*112*		*71-128*	*%REC*	*1*	*11-Oct-2015 01:58*
Surr: Toluene-d8	*101*		*73-127*	*%REC*	*1*	*11-Oct-2015 01:58*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**80.1**		**5.63**	**mg/Kg-dry**	1	15-Oct-2015 04:35
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	U		0.059	mg/Kg-dry	1	14-Oct-2015 21:07
Surr: 4-Bromofluorobenzene	*75.1*		*70-130*	*%REC*	*1*	*14-Oct-2015 21:07*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**16.1**		**0.0100**	**wt%**	1	12-Oct-2015 11:58
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**9.3**		**2.0**	**mg/Kg-dry**	1	15-Oct-2015 06:06
Surr: 2-Fluorobiphenyl	*79.2*		*60-135*	*%REC*	*1*	*15-Oct-2015 06:06*

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-6 15-16'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-37
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**67.2**		**5.75**	**mg/Kg-dry**	1	15-Oct-2015 04:56
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**23.7**		**0.0100**	**wt%**	1	12-Oct-2015 11:58

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-6 19-20'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-38
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**55.6**		**6.00**	**mg/Kg-dry**	1	15-Oct-2015 05:18
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**23.8**		**0.0100**	**wt%**	1	12-Oct-2015 11:58

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-7 5-6'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-39
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	U		0.0056	mg/Kg-dry	1	11-Oct-2015 02:21
Ethylbenzene	U		0.0056	mg/Kg-dry	1	11-Oct-2015 02:21
m,p-Xylene	U		0.011	mg/Kg-dry	1	11-Oct-2015 02:21
o-Xylene	U		0.0056	mg/Kg-dry	1	11-Oct-2015 02:21
Toluene	U		0.0056	mg/Kg-dry	1	11-Oct-2015 02:21
Xylenes, Total	U		0.011	mg/Kg-dry	1	11-Oct-2015 02:21
Surr: 1,2-Dichloroethane-d4	*94.3*		*70-128*	*%REC*	*1*	*11-Oct-2015 02:21*
Surr: 4-Bromofluorobenzene	*88.3*		*73-126*	*%REC*	*1*	*11-Oct-2015 02:21*
Surr: Dibromofluoromethane	*101*		*71-128*	*%REC*	*1*	*11-Oct-2015 02:21*
Surr: Toluene-d8	*99.1*		*73-127*	*%REC*	*1*	*11-Oct-2015 02:21*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**1,050**		**25.5**	**mg/Kg-dry**	5	15-Oct-2015 09:24
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	U		0.056	mg/Kg-dry	1	14-Oct-2015 21:23
Surr: 4-Bromofluorobenzene	*73.8*		*70-130*	*%REC*	*1*	*14-Oct-2015 21:23*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**12.0**		**0.0100**	**wt%**	1	12-Oct-2015 11:53
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**250**		**19**	**mg/Kg-dry**	10	15-Oct-2015 15:19
Surr: 2-Fluorobiphenyl	*68.7*		*60-135*	*%REC*	*10*	*15-Oct-2015 15:19*

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-7 10-11'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-40
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	U		0.0060	mg/Kg-dry	1	11-Oct-2015 02:44
Ethylbenzene	U		0.0060	mg/Kg-dry	1	11-Oct-2015 02:44
m,p-Xylene	U		0.012	mg/Kg-dry	1	11-Oct-2015 02:44
o-Xylene	U		0.0060	mg/Kg-dry	1	11-Oct-2015 02:44
Toluene	U		0.0060	mg/Kg-dry	1	11-Oct-2015 02:44
Xylenes, Total	U		0.012	mg/Kg-dry	1	11-Oct-2015 02:44
Surr: 1,2-Dichloroethane-d4	*98.0*		*70-128*	*%REC*	*1*	*11-Oct-2015 02:44*
Surr: 4-Bromofluorobenzene	*93.0*		*73-126*	*%REC*	*1*	*11-Oct-2015 02:44*
Surr: Dibromofluoromethane	*104*		*71-128*	*%REC*	*1*	*11-Oct-2015 02:44*
Surr: Toluene-d8	*101*		*73-127*	*%REC*	*1*	*11-Oct-2015 02:44*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**1,130**		**5.97**	**mg/Kg-dry**	1	15-Oct-2015 06:00
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	**3.7**		**0.060**	**mg/Kg-dry**	1	14-Oct-2015 21:39
Surr: 4-Bromofluorobenzene	*115*		*70-130*	*%REC*	*1*	*14-Oct-2015 21:39*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**18.1**		**0.0100**	**wt%**	1	12-Oct-2015 11:53
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**1,100**		**100**	**mg/Kg-dry**	50	16-Oct-2015 23:32
Surr: 2-Fluorobiphenyl	*0*	*JS*	*60-135*	*%REC*	*50*	*16-Oct-2015 23:32*

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-7 15-16'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-41
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**811**		**4.87**	**mg/Kg-dry**	1	15-Oct-2015 06:21
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	U		0.056	mg/Kg-dry	1	14-Oct-2015 21:55
Surr: 4-Bromofluorobenzene	*82.9*		*70-130*	*%REC*	*1*	*14-Oct-2015 21:55*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**10.9**		**0.0100**	**wt%**	1	12-Oct-2015 11:53
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**3.9**		**1.9**	**mg/Kg-dry**	1	15-Oct-2015 06:30
Surr: 2-Fluorobiphenyl	*71.3*		*60-135*	*%REC*	*1*	*15-Oct-2015 06:30*

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-7 19-20'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-42
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**450**		**5.07**	**mg/Kg-dry**	1	15-Oct-2015 06:42
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	U		0.055	mg/Kg-dry	1	14-Oct-2015 22:59
Surr: 4-Bromofluorobenzene	*79.5*		*70-130*	*%REC*	*1*	*14-Oct-2015 22:59*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**9.25**		**0.0100**	**wt%**	1	12-Oct-2015 11:53
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**3.5**		**1.9**	**mg/Kg-dry**	1	15-Oct-2015 06:54
Surr: 2-Fluorobiphenyl	*80.7*		*60-135*	*%REC*	*1*	*15-Oct-2015 06:54*

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-8 5-6'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-43
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	U		0.0060	mg/Kg-dry	1	11-Oct-2015 03:08
Ethylbenzene	U		0.0060	mg/Kg-dry	1	11-Oct-2015 03:08
m,p-Xylene	U		0.012	mg/Kg-dry	1	11-Oct-2015 03:08
o-Xylene	U		0.0060	mg/Kg-dry	1	11-Oct-2015 03:08
Toluene	U		0.0060	mg/Kg-dry	1	11-Oct-2015 03:08
Xylenes, Total	U		0.012	mg/Kg-dry	1	11-Oct-2015 03:08
Surr: 1,2-Dichloroethane-d4	*96.3*		*70-128*	*%REC*	*1*	*11-Oct-2015 03:08*
Surr: 4-Bromofluorobenzene	*90.8*		*73-126*	*%REC*	*1*	*11-Oct-2015 03:08*
Surr: Dibromofluoromethane	*101*		*71-128*	*%REC*	*1*	*11-Oct-2015 03:08*
Surr: Toluene-d8	*98.6*		*73-127*	*%REC*	*1*	*11-Oct-2015 03:08*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**44.8**		**5.72**	**mg/Kg-dry**	1	15-Oct-2015 07:04
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	U		0.063	mg/Kg-dry	1	14-Oct-2015 23:15
Surr: 4-Bromofluorobenzene	*79.3*		*70-130*	*%REC*	*1*	*14-Oct-2015 23:15*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**20.9**		**0.0100**	**wt%**	1	12-Oct-2015 11:53
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Oct-2015		Analyst: KMB
TPH (Diesel Range)	U		2.1	mg/Kg-dry	1	15-Oct-2015 07:18
Surr: 2-Fluorobiphenyl	*89.8*		*60-135*	*%REC*	*1*	*15-Oct-2015 07:18*

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-8 10-11'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-44
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	U		0.0058	mg/Kg-dry	1	11-Oct-2015 03:31
Ethylbenzene	U		0.0058	mg/Kg-dry	1	11-Oct-2015 03:31
m,p-Xylene	U		0.012	mg/Kg-dry	1	11-Oct-2015 03:31
o-Xylene	U		0.0058	mg/Kg-dry	1	11-Oct-2015 03:31
Toluene	U		0.0058	mg/Kg-dry	1	11-Oct-2015 03:31
Xylenes, Total	U		0.012	mg/Kg-dry	1	11-Oct-2015 03:31
Surr: 1,2-Dichloroethane-d4	*94.7*		*70-128*	*%REC*	*1*	*11-Oct-2015 03:31*
Surr: 4-Bromofluorobenzene	*89.9*		*73-126*	*%REC*	*1*	*11-Oct-2015 03:31*
Surr: Dibromofluoromethane	*104*		*71-128*	*%REC*	*1*	*11-Oct-2015 03:31*
Surr: Toluene-d8	*99.4*		*73-127*	*%REC*	*1*	*11-Oct-2015 03:31*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 13-Oct-2015		Analyst: JBA
Chloride	**1,070**		**26.6**	**mg/Kg-dry**	5	15-Oct-2015 09:45
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	U		0.058	mg/Kg-dry	1	14-Oct-2015 23:31
Surr: 4-Bromofluorobenzene	*79.1*		*70-130*	*%REC*	*1*	*14-Oct-2015 23:31*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**16.6**		**0.0100**	**wt%**	1	12-Oct-2015 11:53
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Oct-2015		Analyst: KMB
TPH (Diesel Range)	U		2.0	mg/Kg-dry	1	15-Oct-2015 07:42
Surr: 2-Fluorobiphenyl	*92.4*		*60-135*	*%REC*	*1*	*15-Oct-2015 07:42*

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-8 15-16'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-45
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 14-Oct-2015		Analyst: JBA
Chloride	**848**		**33.5**	**mg/Kg-dry**	5	15-Oct-2015 11:52
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**27.0**		**0.0100**	**wt%**	1	12-Oct-2015 11:53

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-8 19-20'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-46
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 14-Oct-2015		Analyst: JBA
Chloride	**530**		**6.42**	**mg/Kg-dry**	1	15-Oct-2015 12:56
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**23.1**		**0.0100**	**wt%**	1	12-Oct-2015 11:53

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-9 5-6'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-47
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	U		0.0051	mg/Kg-dry	1	11-Oct-2015 03:54
Ethylbenzene	U		0.0051	mg/Kg-dry	1	11-Oct-2015 03:54
m,p-Xylene	U		0.010	mg/Kg-dry	1	11-Oct-2015 03:54
o-Xylene	U		0.0051	mg/Kg-dry	1	11-Oct-2015 03:54
Toluene	U		0.0051	mg/Kg-dry	1	11-Oct-2015 03:54
Xylenes, Total	U		0.010	mg/Kg-dry	1	11-Oct-2015 03:54
Surr: 1,2-Dichloroethane-d4	*93.7*		*70-128*	*%REC*	*1*	*11-Oct-2015 03:54*
Surr: 4-Bromofluorobenzene	*89.7*		*73-126*	*%REC*	*1*	*11-Oct-2015 03:54*
Surr: Dibromofluoromethane	*100*		*71-128*	*%REC*	*1*	*11-Oct-2015 03:54*
Surr: Toluene-d8	*101*		*73-127*	*%REC*	*1*	*11-Oct-2015 03:54*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 14-Oct-2015		Analyst: JBA
Chloride	**10.7**		**5.06**	**mg/Kg-dry**	1	15-Oct-2015 13:17
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	U		0.052	mg/Kg-dry	1	14-Oct-2015 23:47
Surr: 4-Bromofluorobenzene	*79.7*		*70-130*	*%REC*	*1*	*14-Oct-2015 23:47*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**3.19**		**0.0100**	**wt%**	1	12-Oct-2015 11:53
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**11**		**1.8**	**mg/Kg-dry**	1	15-Oct-2015 08:06
Surr: 2-Fluorobiphenyl	*66.5*		*60-135*	*%REC*	*1*	*15-Oct-2015 08:06*

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-9 10-11'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-48
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	U		0.0055	mg/Kg-dry	1	11-Oct-2015 04:18
Ethylbenzene	U		0.0055	mg/Kg-dry	1	11-Oct-2015 04:18
m,p-Xylene	U		0.011	mg/Kg-dry	1	11-Oct-2015 04:18
o-Xylene	U		0.0055	mg/Kg-dry	1	11-Oct-2015 04:18
Toluene	U		0.0055	mg/Kg-dry	1	11-Oct-2015 04:18
Xylenes, Total	U		0.011	mg/Kg-dry	1	11-Oct-2015 04:18
Surr: 1,2-Dichloroethane-d4	*103*		*70-128*	*%REC*	*1*	*11-Oct-2015 04:18*
Surr: 4-Bromofluorobenzene	*90.5*		*73-126*	*%REC*	*1*	*11-Oct-2015 04:18*
Surr: Dibromofluoromethane	*105*		*71-128*	*%REC*	*1*	*11-Oct-2015 04:18*
Surr: Toluene-d8	*98.7*		*73-127*	*%REC*	*1*	*11-Oct-2015 04:18*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 14-Oct-2015		Analyst: JBA
Chloride	**86.7**		**5.11**	**mg/Kg-dry**	1	15-Oct-2015 13:38
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	U		0.055	mg/Kg-dry	1	15-Oct-2015 00:03
Surr: 4-Bromofluorobenzene	*80.4*		*70-130*	*%REC*	*1*	*15-Oct-2015 00:03*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**10.1**		**0.0100**	**wt%**	1	12-Oct-2015 11:53
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**30**		**1.9**	**mg/Kg-dry**	1	15-Oct-2015 08:30
Surr: 2-Fluorobiphenyl	*87.4*		*60-135*	*%REC*	*1*	*15-Oct-2015 08:30*

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-9 15-16'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-49
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 14-Oct-2015		Analyst: JBA
Chloride	**207**		**4.76**	**mg/Kg-dry**	1	15-Oct-2015 13:59
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**6.12**		**0.0100**	**wt%**	1	12-Oct-2015 11:53

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-9 19-20'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-50
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 14-Oct-2015		Analyst: JBA
Chloride	**210**		**5.18**	**mg/Kg-dry**	1	15-Oct-2015 15:03
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**4.64**		**0.0100**	**wt%**	1	12-Oct-2015 11:53

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-10 5-6'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-51
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	U		0.0049	mg/Kg-dry	1	11-Oct-2015 04:41
Ethylbenzene	U		0.0049	mg/Kg-dry	1	11-Oct-2015 04:41
m,p-Xylene	U		0.0098	mg/Kg-dry	1	11-Oct-2015 04:41
o-Xylene	U		0.0049	mg/Kg-dry	1	11-Oct-2015 04:41
Toluene	U		0.0049	mg/Kg-dry	1	11-Oct-2015 04:41
Xylenes, Total	U		0.0098	mg/Kg-dry	1	11-Oct-2015 04:41
Surr: 1,2-Dichloroethane-d4	*95.9*		*70-128*	*%REC*	*1*	*11-Oct-2015 04:41*
Surr: 4-Bromofluorobenzene	*90.2*		*73-126*	*%REC*	*1*	*11-Oct-2015 04:41*
Surr: Dibromofluoromethane	*104*		*71-128*	*%REC*	*1*	*11-Oct-2015 04:41*
Surr: Toluene-d8	*100*		*73-127*	*%REC*	*1*	*11-Oct-2015 04:41*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 14-Oct-2015		Analyst: JBA
Chloride	**7.88**		**4.63**	**mg/Kg-dry**	1	15-Oct-2015 15:24
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	U		0.050	mg/Kg-dry	1	15-Oct-2015 00:20
Surr: 4-Bromofluorobenzene	*81.2*		*70-130*	*%REC*	*1*	*15-Oct-2015 00:20*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**0.783**		**0.0100**	**wt%**	1	12-Oct-2015 11:53
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Oct-2015		Analyst: KMB
TPH (Diesel Range)	U		1.7	mg/Kg-dry	1	15-Oct-2015 08:54
Surr: 2-Fluorobiphenyl	*88.3*		*60-135*	*%REC*	*1*	*15-Oct-2015 08:54*

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-10 10-11'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-52
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	U		0.0052	mg/Kg-dry	1	11-Oct-2015 05:04
Ethylbenzene	U		0.0052	mg/Kg-dry	1	11-Oct-2015 05:04
m,p-Xylene	U		0.010	mg/Kg-dry	1	11-Oct-2015 05:04
o-Xylene	U		0.0052	mg/Kg-dry	1	11-Oct-2015 05:04
Toluene	U		0.0052	mg/Kg-dry	1	11-Oct-2015 05:04
Xylenes, Total	U		0.010	mg/Kg-dry	1	11-Oct-2015 05:04
Surr: 1,2-Dichloroethane-d4	*101*		*70-128*	*%REC*	*1*	*11-Oct-2015 05:04*
Surr: 4-Bromofluorobenzene	*91.9*		*73-126*	*%REC*	*1*	*11-Oct-2015 05:04*
Surr: Dibromofluoromethane	*106*		*71-128*	*%REC*	*1*	*11-Oct-2015 05:04*
Surr: Toluene-d8	*101*		*73-127*	*%REC*	*1*	*11-Oct-2015 05:04*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 14-Oct-2015		Analyst: JBA
Chloride	**13.4**		**5.05**	**mg/Kg-dry**	1	15-Oct-2015 15:45
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	U		0.052	mg/Kg-dry	1	15-Oct-2015 00:36
Surr: 4-Bromofluorobenzene	*77.0*		*70-130*	*%REC*	*1*	*15-Oct-2015 00:36*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**5.85**		**0.0100**	**wt%**	1	12-Oct-2015 11:53
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**4.6**		**1.8**	**mg/Kg-dry**	1	15-Oct-2015 09:18
Surr: 2-Fluorobiphenyl	*92.2*		*60-135*	*%REC*	*1*	*15-Oct-2015 09:18*

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-10 15-16'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-53
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 14-Oct-2015		Analyst: JBA
Chloride	**35.9**		**4.57**	**mg/Kg-dry**	1	15-Oct-2015 16:06
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**6.01**		**0.0100**	**wt%**	1	12-Oct-2015 11:53

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-10 19-20'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-54
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 14-Oct-2015		Analyst: JBA
Chloride	**627**		**5.11**	**mg/Kg-dry**	1	15-Oct-2015 16:28
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**5.98**		**0.0100**	**wt%**	1	12-Oct-2015 11:53

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-11 5-6'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-55
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	U		0.0049	mg/Kg-dry	1	11-Oct-2015 05:27
Ethylbenzene	U		0.0049	mg/Kg-dry	1	11-Oct-2015 05:27
m,p-Xylene	U		0.0098	mg/Kg-dry	1	11-Oct-2015 05:27
o-Xylene	U		0.0049	mg/Kg-dry	1	11-Oct-2015 05:27
Toluene	U		0.0049	mg/Kg-dry	1	11-Oct-2015 05:27
Xylenes, Total	U		0.0098	mg/Kg-dry	1	11-Oct-2015 05:27
Surr: 1,2-Dichloroethane-d4	*98.9*		*70-128*	*%REC*	*1*	*11-Oct-2015 05:27*
Surr: 4-Bromofluorobenzene	*91.3*		*73-126*	*%REC*	*1*	*11-Oct-2015 05:27*
Surr: Dibromofluoromethane	*104*		*71-128*	*%REC*	*1*	*11-Oct-2015 05:27*
Surr: Toluene-d8	*99.1*		*73-127*	*%REC*	*1*	*11-Oct-2015 05:27*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 14-Oct-2015		Analyst: JBA
Chloride	**14.8**		**4.81**	**mg/Kg-dry**	1	15-Oct-2015 16:49
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	U		0.050	mg/Kg-dry	1	15-Oct-2015 00:52
Surr: 4-Bromofluorobenzene	*81.1*		*70-130*	*%REC*	*1*	*15-Oct-2015 00:52*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**0.837**		**0.0100**	**wt%**	1	12-Oct-2015 11:53
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**6.2**		**1.7**	**mg/Kg-dry**	1	15-Oct-2015 09:42
Surr: 2-Fluorobiphenyl	*92.1*		*60-135*	*%REC*	*1*	*15-Oct-2015 09:42*

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-11 10-11'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-56
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES BY SW8260C		**Method:SW8260**				Analyst: WLR
Benzene	U		0.0054	mg/Kg-dry	1	10-Oct-2015 21:42
Ethylbenzene	U		0.0054	mg/Kg-dry	1	10-Oct-2015 21:42
m,p-Xylene	U		0.011	mg/Kg-dry	1	10-Oct-2015 21:42
o-Xylene	U		0.0054	mg/Kg-dry	1	10-Oct-2015 21:42
Toluene	U		0.0054	mg/Kg-dry	1	10-Oct-2015 21:42
Xylenes, Total	U		0.011	mg/Kg-dry	1	10-Oct-2015 21:42
Surr: 1,2-Dichloroethane-d4	*103*		*70-128*	*%REC*	*1*	*10-Oct-2015 21:42*
Surr: 4-Bromofluorobenzene	*91.2*		*73-126*	*%REC*	*1*	*10-Oct-2015 21:42*
Surr: Dibromofluoromethane	*106*		*71-128*	*%REC*	*1*	*10-Oct-2015 21:42*
Surr: Toluene-d8	*101*		*73-127*	*%REC*	*1*	*10-Oct-2015 21:42*
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 14-Oct-2015		Analyst: JBA
Chloride	**793**		**5.37**	**mg/Kg-dry**	1	15-Oct-2015 17:10
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**				Analyst: SFE
Gasoline Range Organics	U		0.054	mg/Kg-dry	1	15-Oct-2015 01:08
Surr: 4-Bromofluorobenzene	*80.4*		*70-130*	*%REC*	*1*	*15-Oct-2015 01:08*
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**11.4**		**0.0100**	**wt%**	1	12-Oct-2015 11:53
TPH DRO/ORO BY SW8015C		**Method:SW8015M**		Prep:SW3541 / 14-Oct-2015		Analyst: KMB
TPH (Diesel Range)	**60**		**9.6**	**mg/Kg-dry**	5	17-Oct-2015 00:20
Surr: 2-Fluorobiphenyl	*57.1*	*S*	*60-135*	*%REC*	*5*	*17-Oct-2015 00:20*

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-11 15-16'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-57
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 14-Oct-2015		Analyst: JBA
Chloride	**545**		**4.97**	**mg/Kg-dry**	1	15-Oct-2015 17:35
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**5.74**		**0.0100**	**wt%**	1	12-Oct-2015 11:53

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: SB-11 19-20'
Collection Date: 01-Oct-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-58
Matrix:Soil

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A		**Method:SW9056**		Prep:SW9056 / 14-Oct-2015		Analyst: JBA
Chloride	**361**		**5.15**	**mg/Kg-dry**	1	15-Oct-2015 17:56
MOISTURE		**Method:SW3550**				Analyst: JHD
Percent Moisture	**11.0**		**0.0100**	**wt%**	1	12-Oct-2015 11:53

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Sample ID: Trip Blank
Collection Date: 30-Sep-2015 00:00

ANALYTICAL REPORT
WorkOrder:HS15100391
Lab ID:HS15100391-59
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
VOLATILES - SW8260C		**Method:SW8260**				Analyst: PC
Benzene		U	0.0050	mg/L	1	10-Oct-2015 06:57
Ethylbenzene		U	0.0050	mg/L	1	10-Oct-2015 06:57
Toluene		U	0.0050	mg/L	1	10-Oct-2015 06:57
Xylenes, Total		U	0.015	mg/L	1	10-Oct-2015 06:57
Surr: 1,2-Dichloroethane-d4	*90.9*		*70-125*	*%REC*	*1*	*10-Oct-2015 06:57*
Surr: 4-Bromofluorobenzene	*85.1*		*72-125*	*%REC*	*1*	*10-Oct-2015 06:57*
Surr: Dibromofluoromethane	*96.9*		*71-125*	*%REC*	*1*	*10-Oct-2015 06:57*
Surr: Toluene-d8	*98.2*		*75-125*	*%REC*	*1*	*10-Oct-2015 06:57*

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

ALS Group USA, Corp

Date: 20-Oct-15

WEIGHT LOG

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

Batch ID: 580 **Method:** VOLATILES BY SW8260C

SampID	Container	Sample Wt/Vol	Final Volume	Weight Factor	Container Type
HS15100391-01	1	5.023 (g)	5 (mL)	1	Bulk (5030B)
HS15100391-02	1	5.022 (g)	5 (mL)	1	Bulk (5030B)
HS15100391-03	1	5.126 (g)	5 (mL)	0.98	Bulk (5030B)
HS15100391-11	1	5.214 (g)	5 (mL)	0.96	Bulk (5030B)
HS15100391-12	1	5.112 (g)	5 (mL)	0.98	Bulk (5030B)
HS15100391-17	1	5.015 (g)	5 (mL)	1	Bulk (5030B)
HS15100391-18	1	5.069 (g)	5 (mL)	0.99	Bulk (5030B)
HS15100391-19	1	5.168 (g)	5 (mL)	0.97	Bulk (5030B)
HS15100391-27	1	5.214 (g)	5 (mL)	0.96	Bulk (5030B)
HS15100391-28	1	5.126 (g)	5 (mL)	0.98	Bulk (5030B)
HS15100391-31	1	5.114 (g)	5 (mL)	0.98	Bulk (5030B)
HS15100391-32	1	5.018 (g)	5 (mL)	1	Bulk (5030B)
HS15100391-35	1	5.002 (g)	5 (mL)	1	Bulk (5030B)
HS15100391-36	1	4.956 (g)	5 (mL)	1.01	Bulk (5030B)
HS15100391-39	1	5.118 (g)	5 (mL)	0.98	Bulk (5030B)
HS15100391-40	1	5.026 (g)	5 (mL)	0.99	Bulk (5030B)
HS15100391-43	1	5.241 (g)	5 (mL)	0.95	Bulk (5030B)
HS15100391-44	1	5.221 (g)	5 (mL)	0.96	Bulk (5030B)
HS15100391-47	1	5.069 (g)	5 (mL)	0.99	Bulk (5030B)
HS15100391-48	1	5.118 (g)	5 (mL)	0.98	Bulk (5030B)
HS15100391-51	1	5.159 (g)	5 (mL)	0.97	Bulk (5030B)
HS15100391-52	1	5.144 (g)	5 (mL)	0.97	Bulk (5030B)
HS15100391-55	1	5.169 (g)	5 (mL)	0.97	Bulk (5030B)
HS15100391-56	1	5.229 (g)	5 (mL)	0.96	Bulk (5030B)

Batch ID: 98015 **Method:** TPH DRO/ORO BY SW8015C **Prep:** 8015SPR_LL

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS15100391-01	1	30.07	1 (mL)	0.03326
HS15100391-02	1	30.01	2 (mL)	0.06664
HS15100391-03	1	30.03	1 (mL)	0.0333
HS15100391-06	1	30.09	1 (mL)	0.03323
HS15100391-08	1	30.04	1 (mL)	0.03329
HS15100391-10	1	30.08	1 (mL)	0.03324
HS15100391-11	1	30.01	4 (mL)	0.1333
HS15100391-12	1	30.05	2 (mL)	0.06656
HS15100391-14	1	30.03	1 (mL)	0.0333
HS15100391-15	1	30.07	1 (mL)	0.03326
HS15100391-17	1	30.06	1 (mL)	0.03327
HS15100391-18	1	30.02	1 (mL)	0.03331
HS15100391-19	1	30.07	1 (mL)	0.03326
HS15100391-22	1	30.09	1 (mL)	0.03323

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Date: 20-Oct-15

WEIGHT LOG

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

Batch ID: 98031 **Method:** TPH DRO/ORO BY SW8015C **Prep:** 8015SPR_LL

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS15100391-24	1	30.02	1 (mL)	0.03331
HS15100391-26	1	30.09	1 (mL)	0.03323
HS15100391-27	1	30.01	1 (mL)	0.03332
HS15100391-28	1	30.04	1 (mL)	0.03329
HS15100391-31	1	30.03	1 (mL)	0.0333
HS15100391-32	1	30.07	1 (mL)	0.03326
HS15100391-35	1	30.09	1 (mL)	0.03323
HS15100391-36	1	30.01	1 (mL)	0.03332
HS15100391-39	1	30	1 (mL)	0.03333
HS15100391-40	1	30.04	1 (mL)	0.03329
HS15100391-41	1	30.07	1 (mL)	0.03326
HS15100391-42	1	30.01	1 (mL)	0.03332
HS15100391-43	1	30.08	1 (mL)	0.03324
HS15100391-44	1	30.05	1 (mL)	0.03328
HS15100391-47	1	30.01	1 (mL)	0.03332
HS15100391-48	1	30.09	1 (mL)	0.03323
HS15100391-51	1	30.05	1 (mL)	0.03328
HS15100391-52	1	30.07	1 (mL)	0.03326
HS15100391-55	1	30.03	1 (mL)	0.0333
HS15100391-56	1	30.01	1 (mL)	0.03332

Batch ID: 98035 **Method:** ANIONS BY SW9056A **Prep:** 9056_S_PR

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS15100391-01	1	5.2437	50 (mL)	9.535
HS15100391-02	1	5.4433	50 (mL)	9.186
HS15100391-03	1	5.5462	50 (mL)	9.015
HS15100391-04	1	5.2305	50 (mL)	9.559
HS15100391-06	1	5.2876	50 (mL)	9.456
HS15100391-07	1	5.4429	50 (mL)	9.186
HS15100391-08	1	5.5858	50 (mL)	8.951
HS15100391-09	1	5.5702	50 (mL)	8.976
HS15100391-10	1	5.0635	50 (mL)	9.875
HS15100391-11	1	5.3025	50 (mL)	9.43
HS15100391-12	1	5.5614	50 (mL)	8.991
HS15100391-14	1	5.4327	50 (mL)	9.204
HS15100391-16	1	5.5229	50 (mL)	9.053
HS15100391-17	1	5.5728	50 (mL)	8.972
HS15100391-18	1	5.2069	50 (mL)	9.603
HS15100391-19	1	5.1966	50 (mL)	9.622
HS15100391-20	1	5.2048	50 (mL)	9.607
HS15100391-22	1	5.3726	50 (mL)	9.306
HS15100391-23	1	5.3853	50 (mL)	9.285
HS15100391-24	1	5.4866	50 (mL)	9.113

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ALS Group USA, Corp

Date: 20-Oct-15

WEIGHT LOG

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

Batch ID: 98036 **Method:** ANIONS BY SW9056A **Prep:** 9056_S_PR

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS15100391-25	1	5.465	50 (mL)	9.149
HS15100391-26	1	5.3532	50 (mL)	9.34
HS15100391-27	1	5.7482	50 (mL)	8.698
HS15100391-28	1	5.0783	50 (mL)	9.846
HS15100391-29	1	5.7729	50 (mL)	8.661
HS15100391-30	1	5.7169	50 (mL)	8.746
HS15100391-31	1	5.0939	50 (mL)	9.816
HS15100391-32	1	5.3713	50 (mL)	9.309
HS15100391-33	1	5.4023	50 (mL)	9.255
HS15100391-34	1	5.0168	50 (mL)	9.967
HS15100391-35	1	5.0438	50 (mL)	9.913
HS15100391-36	1	5.2924	50 (mL)	9.448
HS15100391-37	1	5.6971	50 (mL)	8.776
HS15100391-38	1	5.4716	50 (mL)	9.138
HS15100391-39	1	5.5611	50 (mL)	8.991
HS15100391-40	1	5.1151	50 (mL)	9.775
HS15100391-41	1	5.7575	50 (mL)	8.684
HS15100391-42	1	5.4353	50 (mL)	9.199
HS15100391-43	1	5.5267	50 (mL)	9.047
HS15100391-44	1	5.6305	50 (mL)	8.88

Batch ID: 98037 **Method:** ANIONS BY SW9056A **Prep:** 9056_S_PR

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS15100391-45	1	5.1076	50 (mL)	9.789
HS15100391-46	1	5.0629	50 (mL)	9.876
HS15100391-47	1	5.1064	50 (mL)	9.792
HS15100391-48	1	5.4376	50 (mL)	9.195
HS15100391-49	1	5.5952	50 (mL)	8.936
HS15100391-50	1	5.0652	50 (mL)	9.871
HS15100391-51	1	5.4432	50 (mL)	9.186
HS15100391-52	1	5.2592	50 (mL)	9.507
HS15100391-53	1	5.814	50 (mL)	8.6
HS15100391-54	1	5.2084	50 (mL)	9.6
HS15100391-55	1	5.2441	50 (mL)	9.535
HS15100391-56	1	5.2584	50 (mL)	9.509
HS15100391-57	1	5.3395	50 (mL)	9.364
HS15100391-58	1	5.4586	50 (mL)	9.16

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 98015	**Test Name :** TPH DRO/ORO BY SW8015C			**Matrix:** Soil		
HS15100391-01	SB-1 5-6'	30 Sep 2015 00:00		13 Oct 2015 18:38	16 Oct 2015 19:09	100
HS15100391-02	SB-1 10-11'	30 Sep 2015 00:00		13 Oct 2015 18:38	16 Oct 2015 19:33	100
HS15100391-03	SB-1 15-16'	30 Sep 2015 00:00		13 Oct 2015 18:38	16 Oct 2015 19:57	100
HS15100391-06	SB-1 30-31'	30 Sep 2015 00:00		13 Oct 2015 18:38	16 Oct 2015 20:21	100
HS15100391-08	SB-1 50-51'	30 Sep 2015 00:00		13 Oct 2015 18:38	16 Oct 2015 18:45	5
HS15100391-10	SB-1 70-71'	30 Sep 2015 00:00		13 Oct 2015 18:38	14 Oct 2015 22:54	1
HS15100391-11	SB-2 5-6'	30 Sep 2015 00:00		13 Oct 2015 18:38	16 Oct 2015 20:45	100
HS15100391-12	SB-2 10-11'	30 Sep 2015 00:00		13 Oct 2015 18:38	16 Oct 2015 21:09	100
HS15100391-14	SB-2 20-21'	30 Sep 2015 00:00		13 Oct 2015 18:38	15 Oct 2015 00:06	1
HS15100391-15	SB-2 25-26'	30 Sep 2015 00:00		13 Oct 2015 18:38	15 Oct 2015 00:30	1
HS15100391-17	SB-3 5-6'	30 Sep 2015 00:00		13 Oct 2015 18:38	16 Oct 2015 21:33	200
HS15100391-18	SB-3 10-11'	30 Sep 2015 00:00		13 Oct 2015 18:38	16 Oct 2015 21:57	100
HS15100391-19	SB-3 15-16'	30 Sep 2015 00:00		13 Oct 2015 18:38	16 Oct 2015 23:09	100
HS15100391-22	SB-3 30-31'	30 Sep 2015 00:00		13 Oct 2015 18:38	15 Oct 2015 14:55	10
Batch ID 98031	**Test Name :** TPH DRO/ORO BY SW8015C			**Matrix:** Soil		
HS15100391-24	SB-3 50-51'	30 Sep 2015 00:00		14 Oct 2015 11:26	16 Oct 2015 23:57	100
HS15100391-26	SB-3 70-71'	30 Sep 2015 00:00		14 Oct 2015 11:26	15 Oct 2015 02:54	1
HS15100391-27	SB-4 5-6'	01 Oct 2015 00:00		14 Oct 2015 11:26	15 Oct 2015 03:18	1
HS15100391-28	SB-4 10-11'	01 Oct 2015 00:00		14 Oct 2015 11:26	15 Oct 2015 03:42	1
HS15100391-31	SB-5 5-6'	01 Oct 2015 00:00		14 Oct 2015 11:26	15 Oct 2015 04:06	1
HS15100391-32	SB-5 10-11'	01 Oct 2015 00:00		14 Oct 2015 11:26	15 Oct 2015 04:30	1
HS15100391-35	SB-6 5-6'	01 Oct 2015 00:00		14 Oct 2015 11:26	15 Oct 2015 05:42	1
HS15100391-36	SB-6 10-11'	01 Oct 2015 00:00		14 Oct 2015 11:26	15 Oct 2015 06:06	1
HS15100391-39	SB-7 5-6'	01 Oct 2015 00:00		14 Oct 2015 11:26	15 Oct 2015 15:19	10
HS15100391-40	SB-7 10-11'	01 Oct 2015 00:00		14 Oct 2015 11:26	16 Oct 2015 23:32	50
HS15100391-41	SB-7 15-16'	01 Oct 2015 00:00		14 Oct 2015 11:26	15 Oct 2015 06:30	1
HS15100391-42	SB-7 19-20'	01 Oct 2015 00:00		14 Oct 2015 11:26	15 Oct 2015 06:54	1
HS15100391-43	SB-8 5-6'	01 Oct 2015 00:00		14 Oct 2015 11:26	15 Oct 2015 07:18	1
HS15100391-44	SB-8 10-11'	01 Oct 2015 00:00		14 Oct 2015 11:26	15 Oct 2015 07:42	1
HS15100391-47	SB-9 5-6'	01 Oct 2015 00:00		14 Oct 2015 11:26	15 Oct 2015 08:06	1
HS15100391-48	SB-9 10-11'	01 Oct 2015 00:00		14 Oct 2015 11:26	15 Oct 2015 08:30	1
HS15100391-51	SB-10 5-6'	01 Oct 2015 00:00		14 Oct 2015 11:26	15 Oct 2015 08:54	1
HS15100391-52	SB-10 10-11'	01 Oct 2015 00:00		14 Oct 2015 11:26	15 Oct 2015 09:18	1
HS15100391-55	SB-11 5-6'	01 Oct 2015 00:00		14 Oct 2015 11:26	15 Oct 2015 09:42	1
HS15100391-56	SB-11 10-11'	01 Oct 2015 00:00		14 Oct 2015 11:26	17 Oct 2015 00:20	5

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 98035	**Test Name :** ANIONS BY SW9056A			**Matrix:** Soil		
HS15100391-01	SB-1 5-6'	30 Sep 2015 00:00		13 Oct 2015 13:34	14 Oct 2015 12:20	1
HS15100391-02	SB-1 10-11'	30 Sep 2015 00:00		13 Oct 2015 13:34	14 Oct 2015 13:24	5
HS15100391-03	SB-1 15-16'	30 Sep 2015 00:00		13 Oct 2015 13:34	14 Oct 2015 13:45	20
HS15100391-04	SB-1 20-21'	30 Sep 2015 00:00		13 Oct 2015 13:34	14 Oct 2015 14:06	10
HS15100391-06	SB-1 30-31'	30 Sep 2015 00:00		13 Oct 2015 13:34	14 Oct 2015 14:28	5
HS15100391-07	SB-1 40-41'	30 Sep 2015 00:00		13 Oct 2015 13:34	14 Oct 2015 15:31	5
HS15100391-08	SB-1 50-51'	30 Sep 2015 00:00		13 Oct 2015 13:34	14 Oct 2015 15:52	5
HS15100391-09	SB-1 60-61'	30 Sep 2015 00:00		13 Oct 2015 13:34	14 Oct 2015 16:14	5
HS15100391-10	SB-1 70-71'	30 Sep 2015 00:00		13 Oct 2015 13:34	14 Oct 2015 16:35	1
HS15100391-11	SB-2 5-6'	30 Sep 2015 00:00		13 Oct 2015 13:34	14 Oct 2015 16:56	1
HS15100391-12	SB-2 10-11'	30 Sep 2015 00:00		13 Oct 2015 13:34	14 Oct 2015 17:17	1
HS15100391-14	SB-2 20-21'	30 Sep 2015 00:00		13 Oct 2015 13:34	14 Oct 2015 17:38	1
HS15100391-16	SB-2 30-31'	30 Sep 2015 00:00		13 Oct 2015 13:34	14 Oct 2015 17:59	1
HS15100391-17	SB-3 5-6'	30 Sep 2015 00:00		13 Oct 2015 13:34	14 Oct 2015 18:21	1
HS15100391-18	SB-3 10-11'	30 Sep 2015 00:00		13 Oct 2015 13:34	14 Oct 2015 18:42	10
HS15100391-19	SB-3 15-16'	30 Sep 2015 00:00		13 Oct 2015 13:34	14 Oct 2015 19:45	5
HS15100391-20	SB-3 20-21'	30 Sep 2015 00:00		13 Oct 2015 13:34	15 Oct 2015 08:41	5
HS15100391-22	SB-3 30-31'	30 Sep 2015 00:00		13 Oct 2015 13:34	14 Oct 2015 20:28	10
HS15100391-23	SB-3 40-41'	30 Sep 2015 00:00		13 Oct 2015 13:34	14 Oct 2015 20:49	5
HS15100391-24	SB-3 50-51'	30 Sep 2015 00:00		13 Oct 2015 13:34	14 Oct 2015 21:10	5

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 98036	**Test Name :** ANIONS BY SW9056A			**Matrix:** Soil		
HS15100391-25	SB-3 60-61'	30 Sep 2015 00:00		13 Oct 2015 14:08	14 Oct 2015 22:35	10
HS15100391-26	SB-3 70-71'	30 Sep 2015 00:00		13 Oct 2015 14:08	15 Oct 2015 09:03	5
HS15100391-27	SB-4 5-6'	01 Oct 2015 00:00		13 Oct 2015 14:08	15 Oct 2015 00:42	1
HS15100391-28	SB-4 10-11'	01 Oct 2015 00:00		13 Oct 2015 14:08	15 Oct 2015 01:03	1
HS15100391-29	SB-4 15-16'	01 Oct 2015 00:00		13 Oct 2015 14:08	15 Oct 2015 01:25	1
HS15100391-30	SB-4 20-21'	01 Oct 2015 00:00		13 Oct 2015 14:08	15 Oct 2015 01:46	1
HS15100391-31	SB-5 5-6'	01 Oct 2015 00:00		13 Oct 2015 14:08	15 Oct 2015 02:07	1
HS15100391-32	SB-5 10-11'	01 Oct 2015 00:00		13 Oct 2015 14:08	15 Oct 2015 02:28	1
HS15100391-33	SB-5 15-16'	01 Oct 2015 00:00		13 Oct 2015 14:08	15 Oct 2015 02:49	1
HS15100391-34	SB-5 19-20'	01 Oct 2015 00:00		13 Oct 2015 14:08	15 Oct 2015 03:11	1
HS15100391-35	SB-6 5-6'	01 Oct 2015 00:00		13 Oct 2015 14:08	15 Oct 2015 04:14	1
HS15100391-36	SB-6 10-11'	01 Oct 2015 00:00		13 Oct 2015 14:08	15 Oct 2015 04:35	1
HS15100391-37	SB-6 15-16'	01 Oct 2015 00:00		13 Oct 2015 14:08	15 Oct 2015 04:56	1
HS15100391-38	SB-6 19-20'	01 Oct 2015 00:00		13 Oct 2015 14:08	15 Oct 2015 05:18	1
HS15100391-39	SB-7 5-6'	01 Oct 2015 00:00		13 Oct 2015 14:08	15 Oct 2015 09:24	5
HS15100391-40	SB-7 10-11'	01 Oct 2015 00:00		13 Oct 2015 14:08	15 Oct 2015 06:00	1
HS15100391-41	SB-7 15-16'	01 Oct 2015 00:00		13 Oct 2015 14:08	15 Oct 2015 06:21	1
HS15100391-42	SB-7 19-20'	01 Oct 2015 00:00		13 Oct 2015 14:08	15 Oct 2015 06:42	1
HS15100391-43	SB-8 5-6'	01 Oct 2015 00:00		13 Oct 2015 14:08	15 Oct 2015 07:04	1
HS15100391-44	SB-8 10-11'	01 Oct 2015 00:00		13 Oct 2015 14:08	15 Oct 2015 09:45	5
Batch ID 98037	**Test Name :** ANIONS BY SW9056A			**Matrix:** Soil		
HS15100391-45	SB-8 15-16'	01 Oct 2015 00:00		14 Oct 2015 10:41	15 Oct 2015 11:52	5
HS15100391-46	SB-8 19-20'	01 Oct 2015 00:00		14 Oct 2015 10:41	15 Oct 2015 12:56	1
HS15100391-47	SB-9 5-6'	01 Oct 2015 00:00		14 Oct 2015 10:41	15 Oct 2015 13:17	1
HS15100391-48	SB-9 10-11'	01 Oct 2015 00:00		14 Oct 2015 10:41	15 Oct 2015 13:38	1
HS15100391-49	SB-9 15-16'	01 Oct 2015 00:00		14 Oct 2015 10:41	15 Oct 2015 13:59	1
HS15100391-50	SB-9 19-20'	01 Oct 2015 00:00		14 Oct 2015 10:41	15 Oct 2015 15:03	1
HS15100391-51	SB-10 5-6'	01 Oct 2015 00:00		14 Oct 2015 10:41	15 Oct 2015 15:24	1
HS15100391-52	SB-10 10-11'	01 Oct 2015 00:00		14 Oct 2015 10:41	15 Oct 2015 15:45	1
HS15100391-53	SB-10 15-16'	01 Oct 2015 00:00		14 Oct 2015 10:41	15 Oct 2015 16:06	1
HS15100391-54	SB-10 19-20'	01 Oct 2015 00:00		14 Oct 2015 10:41	15 Oct 2015 16:28	1
HS15100391-55	SB-11 5-6'	01 Oct 2015 00:00		14 Oct 2015 10:41	15 Oct 2015 16:49	1
HS15100391-56	SB-11 10-11'	01 Oct 2015 00:00		14 Oct 2015 10:41	15 Oct 2015 17:10	1
HS15100391-57	SB-11 15-16'	01 Oct 2015 00:00		14 Oct 2015 10:41	15 Oct 2015 17:35	1
HS15100391-58	SB-11 19-20'	01 Oct 2015 00:00		14 Oct 2015 10:41	15 Oct 2015 17:56	1

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R262848	**Test Name :** VOLATILES BY SW8260C			**Matrix:** Soil		
HS15100391-03	SB-1 15-16'	30 Sep 2015 00:00			10 Oct 2015 22:05	1
HS15100391-17	SB-3 5-6'	30 Sep 2015 00:00			11 Oct 2015 05:51	1
HS15100391-18	SB-3 10-11'	30 Sep 2015 00:00			11 Oct 2015 06:14	1
HS15100391-19	SB-3 15-16'	30 Sep 2015 00:00			10 Oct 2015 22:28	1
HS15100391-27	SB-4 5-6'	01 Oct 2015 00:00			11 Oct 2015 00:01	1
HS15100391-28	SB-4 10-11'	01 Oct 2015 00:00			11 Oct 2015 00:25	1
HS15100391-31	SB-5 5-6'	01 Oct 2015 00:00			11 Oct 2015 00:48	1
HS15100391-32	SB-5 10-11'	01 Oct 2015 00:00			11 Oct 2015 01:11	1
HS15100391-35	SB-6 5-6'	01 Oct 2015 00:00			11 Oct 2015 01:34	1
HS15100391-36	SB-6 10-11'	01 Oct 2015 00:00			11 Oct 2015 01:58	1
HS15100391-39	SB-7 5-6'	01 Oct 2015 00:00			11 Oct 2015 02:21	1
HS15100391-40	SB-7 10-11'	01 Oct 2015 00:00			11 Oct 2015 02:44	1
HS15100391-43	SB-8 5-6'	01 Oct 2015 00:00			11 Oct 2015 03:08	1
HS15100391-44	SB-8 10-11'	01 Oct 2015 00:00			11 Oct 2015 03:31	1
HS15100391-47	SB-9 5-6'	01 Oct 2015 00:00			11 Oct 2015 03:54	1
HS15100391-48	SB-9 10-11'	01 Oct 2015 00:00			11 Oct 2015 04:18	1
HS15100391-51	SB-10 5-6'	01 Oct 2015 00:00			11 Oct 2015 04:41	1
HS15100391-52	SB-10 10-11'	01 Oct 2015 00:00			11 Oct 2015 05:04	1
HS15100391-55	SB-11 5-6'	01 Oct 2015 00:00			11 Oct 2015 05:27	1
HS15100391-56	SB-11 10-11'	01 Oct 2015 00:00			10 Oct 2015 21:42	1
Batch ID R262855	**Test Name :** VOLATILES BY SW8260C			**Matrix:** Soil		
HS15100391-01	SB-1 5-6'	30 Sep 2015 00:00			12 Oct 2015 09:49	1
HS15100391-02	SB-1 10-11'	30 Sep 2015 00:00			12 Oct 2015 10:59	1
HS15100391-11	SB-2 5-6'	30 Sep 2015 00:00			12 Oct 2015 10:12	1
HS15100391-12	SB-2 10-11'	30 Sep 2015 00:00			12 Oct 2015 10:36	1
HS15100391-18	SB-3 10-11'	30 Sep 2015 00:00			12 Oct 2015 09:25	10
Batch ID R262859	**Test Name :** VOLATILES - SW8260C			**Matrix:** Water		
HS15100391-59	Trip Blank	30 Sep 2015 00:00			10 Oct 2015 06:57	1

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R262872	**Test Name :** MOISTURE			**Matrix:** Soil		
HS15100391-39	SB-7 5-6'	01 Oct 2015 00:00			12 Oct 2015 11:53	1
HS15100391-40	SB-7 10-11'	01 Oct 2015 00:00			12 Oct 2015 11:53	1
HS15100391-41	SB-7 15-16'	01 Oct 2015 00:00			12 Oct 2015 11:53	1
HS15100391-42	SB-7 19-20'	01 Oct 2015 00:00			12 Oct 2015 11:53	1
HS15100391-43	SB-8 5-6'	01 Oct 2015 00:00			12 Oct 2015 11:53	1
HS15100391-44	SB-8 10-11'	01 Oct 2015 00:00			12 Oct 2015 11:53	1
HS15100391-45	SB-8 15-16'	01 Oct 2015 00:00			12 Oct 2015 11:53	1
HS15100391-46	SB-8 19-20'	01 Oct 2015 00:00			12 Oct 2015 11:53	1
HS15100391-47	SB-9 5-6'	01 Oct 2015 00:00			12 Oct 2015 11:53	1
HS15100391-48	SB-9 10-11'	01 Oct 2015 00:00			12 Oct 2015 11:53	1
HS15100391-49	SB-9 15-16'	01 Oct 2015 00:00			12 Oct 2015 11:53	1
HS15100391-50	SB-9 19-20'	01 Oct 2015 00:00			12 Oct 2015 11:53	1
HS15100391-51	SB-10 5-6'	01 Oct 2015 00:00			12 Oct 2015 11:53	1
HS15100391-52	SB-10 10-11'	01 Oct 2015 00:00			12 Oct 2015 11:53	1
HS15100391-53	SB-10 15-16'	01 Oct 2015 00:00			12 Oct 2015 11:53	1
HS15100391-54	SB-10 19-20'	01 Oct 2015 00:00			12 Oct 2015 11:53	1
HS15100391-55	SB-11 5-6'	01 Oct 2015 00:00			12 Oct 2015 11:53	1
HS15100391-56	SB-11 10-11'	01 Oct 2015 00:00			12 Oct 2015 11:53	1
HS15100391-57	SB-11 15-16'	01 Oct 2015 00:00			12 Oct 2015 11:53	1
HS15100391-58	SB-11 19-20'	01 Oct 2015 00:00			12 Oct 2015 11:53	1
Batch ID R262873	**Test Name :** MOISTURE			**Matrix:** Soil		
HS15100391-20	SB-3 20-21'	30 Sep 2015 00:00			12 Oct 2015 11:58	1
HS15100391-22	SB-3 30-31'	30 Sep 2015 00:00			12 Oct 2015 11:58	1
HS15100391-23	SB-3 40-41'	30 Sep 2015 00:00			12 Oct 2015 11:58	1
HS15100391-24	SB-3 50-51'	30 Sep 2015 00:00			12 Oct 2015 11:58	1
HS15100391-25	SB-3 60-61'	30 Sep 2015 00:00			12 Oct 2015 11:58	1
HS15100391-26	SB-3 70-71'	30 Sep 2015 00:00			12 Oct 2015 11:58	1
HS15100391-27	SB-4 5-6'	01 Oct 2015 00:00			12 Oct 2015 11:58	1
HS15100391-28	SB-4 10-11'	01 Oct 2015 00:00			12 Oct 2015 11:58	1
HS15100391-29	SB-4 15-16'	01 Oct 2015 00:00			12 Oct 2015 11:58	1
HS15100391-30	SB-4 20-21'	01 Oct 2015 00:00			12 Oct 2015 11:58	1
HS15100391-31	SB-5 5-6'	01 Oct 2015 00:00			12 Oct 2015 11:58	1
HS15100391-32	SB-5 10-11'	01 Oct 2015 00:00			12 Oct 2015 11:58	1
HS15100391-33	SB-5 15-16'	01 Oct 2015 00:00			12 Oct 2015 11:58	1
HS15100391-34	SB-5 19-20'	01 Oct 2015 00:00			12 Oct 2015 11:58	1
HS15100391-35	SB-6 5-6'	01 Oct 2015 00:00			12 Oct 2015 11:58	1
HS15100391-36	SB-6 10-11'	01 Oct 2015 00:00			12 Oct 2015 11:58	1
HS15100391-37	SB-6 15-16'	01 Oct 2015 00:00			12 Oct 2015 11:58	1
HS15100391-38	SB-6 19-20'	01 Oct 2015 00:00			12 Oct 2015 11:58	1

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R262898	**Test Name :** MOISTURE			**Matrix:** Soil		
HS15100391-01	SB-1 5-6'	30 Sep 2015 00:00			12 Oct 2015 13:43	1
HS15100391-02	SB-1 10-11'	30 Sep 2015 00:00			12 Oct 2015 13:43	1
HS15100391-03	SB-1 15-16'	30 Sep 2015 00:00			12 Oct 2015 13:43	1
HS15100391-04	SB-1 20-21'	30 Sep 2015 00:00			12 Oct 2015 13:43	1
HS15100391-06	SB-1 30-31'	30 Sep 2015 00:00			12 Oct 2015 13:43	1
HS15100391-07	SB-1 40-41'	30 Sep 2015 00:00			12 Oct 2015 13:43	1
HS15100391-08	SB-1 50-51'	30 Sep 2015 00:00			12 Oct 2015 13:43	1
HS15100391-09	SB-1 60-61'	30 Sep 2015 00:00			12 Oct 2015 13:43	1
HS15100391-10	SB-1 70-71'	30 Sep 2015 00:00			12 Oct 2015 13:43	1
HS15100391-11	SB-2 5-6'	30 Sep 2015 00:00			12 Oct 2015 13:43	1
HS15100391-12	SB-2 10-11'	30 Sep 2015 00:00			12 Oct 2015 13:43	1
HS15100391-14	SB-2 20-21'	30 Sep 2015 00:00			12 Oct 2015 13:43	1
HS15100391-16	SB-2 30-31'	30 Sep 2015 00:00			12 Oct 2015 13:43	1
HS15100391-17	SB-3 5-6'	30 Sep 2015 00:00			12 Oct 2015 13:43	1
HS15100391-18	SB-3 10-11'	30 Sep 2015 00:00			12 Oct 2015 13:43	1
HS15100391-19	SB-3 15-16'	30 Sep 2015 00:00			12 Oct 2015 13:43	1
Batch ID R263098	**Test Name :** GASOLINE RANGE ORGANICS BY SW8015C			**Matrix:** Soil		
HS15100391-01	SB-1 5-6'	30 Sep 2015 00:00			14 Oct 2015 13:18	1
HS15100391-02	SB-1 10-11'	30 Sep 2015 00:00			14 Oct 2015 11:42	1
HS15100391-03	SB-1 15-16'	30 Sep 2015 00:00			14 Oct 2015 11:58	1
HS15100391-06	SB-1 30-31'	30 Sep 2015 00:00			14 Oct 2015 12:46	1
HS15100391-08	SB-1 50-51'	30 Sep 2015 00:00			14 Oct 2015 12:14	1
HS15100391-10	SB-1 70-71'	30 Sep 2015 00:00			14 Oct 2015 12:30	1
HS15100391-11	SB-2 5-6'	30 Sep 2015 00:00			14 Oct 2015 13:02	1
HS15100391-12	SB-2 10-11'	30 Sep 2015 00:00			14 Oct 2015 14:13	1
HS15100391-14	SB-2 20-21'	30 Sep 2015 00:00			14 Oct 2015 14:29	1
HS15100391-15	SB-2 25-26'	30 Sep 2015 00:00			14 Oct 2015 14:45	1
HS15100391-17	SB-3 5-6'	30 Sep 2015 00:00			14 Oct 2015 16:05	1
HS15100391-18	SB-3 10-11'	30 Sep 2015 00:00			14 Oct 2015 16:21	1
HS15100391-19	SB-3 15-16'	30 Sep 2015 00:00			14 Oct 2015 15:01	1
HS15100391-22	SB-3 30-31'	30 Sep 2015 00:00			14 Oct 2015 15:17	1
HS15100391-24	SB-3 50-51'	30 Sep 2015 00:00			14 Oct 2015 15:33	1
HS15100391-26	SB-3 70-71'	30 Sep 2015 00:00			14 Oct 2015 15:48	1
HS15100391-27	SB-4 5-6'	01 Oct 2015 00:00			14 Oct 2015 16:36	1
HS15100391-28	SB-4 10-11'	01 Oct 2015 00:00			14 Oct 2015 17:56	1
HS15100391-31	SB-5 5-6'	01 Oct 2015 00:00			14 Oct 2015 18:12	1
HS15100391-32	SB-5 10-11'	01 Oct 2015 00:00			14 Oct 2015 18:28	1

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R263109	**Test Name :** GASOLINE RANGE ORGANICS BY SW8015C			**Matrix:** Soil		
HS15100391-35	SB-6 5-6'	01 Oct 2015 00:00			14 Oct 2015 20:19	1
HS15100391-36	SB-6 10-11'	01 Oct 2015 00:00			14 Oct 2015 21:07	1
HS15100391-39	SB-7 5-6'	01 Oct 2015 00:00			14 Oct 2015 21:23	1
HS15100391-40	SB-7 10-11'	01 Oct 2015 00:00			14 Oct 2015 21:39	1
HS15100391-41	SB-7 15-16'	01 Oct 2015 00:00			14 Oct 2015 21:55	1
HS15100391-42	SB-7 19-20'	01 Oct 2015 00:00			14 Oct 2015 22:59	1
HS15100391-43	SB-8 5-6'	01 Oct 2015 00:00			14 Oct 2015 23:15	1
HS15100391-44	SB-8 10-11'	01 Oct 2015 00:00			14 Oct 2015 23:31	1
HS15100391-47	SB-9 5-6'	01 Oct 2015 00:00			14 Oct 2015 23:47	1
HS15100391-48	SB-9 10-11'	01 Oct 2015 00:00			15 Oct 2015 00:03	1
HS15100391-51	SB-10 5-6'	01 Oct 2015 00:00			15 Oct 2015 00:20	1
HS15100391-52	SB-10 10-11'	01 Oct 2015 00:00			15 Oct 2015 00:36	1
HS15100391-55	SB-11 5-6'	01 Oct 2015 00:00			15 Oct 2015 00:52	1
HS15100391-56	SB-11 10-11'	01 Oct 2015 00:00			15 Oct 2015 01:08	1

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

QC BATCH REPORT

Batch ID: 98015 **Instrument: FID-8** **Method: SW8015M**

MBLK Sample ID: **MBLK-98015** Units: **mg/Kg** Analysis Date: **14-Oct-2015 18:30**
Client ID: Run ID: **FID-8_263215** SeqNo: **3464235** PrepDate: **13-Oct-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	U	1.7								
Surr: 2-Fluorobiphenyl	*2.652*	*0.10*	*3.33*	*0*	*79.6*	*60 - 135*				

LCS Sample ID: **LCS-98015** Units: **mg/Kg** Analysis Date: **14-Oct-2015 18:54**
Client ID: Run ID: **FID-8_263215** SeqNo: **3464236** PrepDate: **13-Oct-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	26.3	1.7	33.33	0	78.9	70 - 130				
Surr: 2-Fluorobiphenyl	*2.897*	*0.10*	*3.33*	*0*	*87.0*	*60 - 135*				

MS Sample ID: **HS15100394-01MS** Units: **mg/Kg** Analysis Date: **14-Oct-2015 19:42**
Client ID: Run ID: **FID-8_263215** SeqNo: **3464238** PrepDate: **13-Oct-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	39.76	1.7	33.26	2.741	111	70 - 130				
Surr: 2-Fluorobiphenyl	*3.84*	*0.10*	*3.323*	*0*	*116*	*60 - 135*				

MSD Sample ID: **HS15100394-01MSD** Units: **mg/Kg** Analysis Date: **14-Oct-2015 20:06**
Client ID: Run ID: **FID-8_263215** SeqNo: **3464239** PrepDate: **13-Oct-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	35.79	1.7	33.3	2.741	99.3	70 - 130	39.76	10.5	30	
Surr: 2-Fluorobiphenyl	*3.47*	*0.10*	*3.327*	*0*	*104*	*60 - 135*	*3.84*	*10.1*	*30*	

The following samples were anayzed in this batch:

HS15100391-01	HS15100391-02	HS15100391-03	HS15100391-06
HS15100391-08	HS15100391-10	HS15100391-11	HS15100391-12
HS15100391-14	HS15100391-15	HS15100391-17	HS15100391-18
HS15100391-19	HS15100391-22		

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

QC BATCH REPORT

Batch ID: 98031 **Instrument: FID-8** **Method: SW8015M**

MBLK Sample ID: **MBLK-98031** Units: **mg/Kg** Analysis Date: **15-Oct-2015 00:54**
Client ID: Run ID: **FID-8_263268** SeqNo: **3465299** PrepDate: **14-Oct-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	U	1.7								
Surr: 2-Fluorobiphenyl	*2.657*	*0.10*	*3.33*	*0*	*79.8*	*60 - 135*				

LCS Sample ID: **LCS-98031** Units: **mg/Kg** Analysis Date: **15-Oct-2015 01:18**
Client ID: Run ID: **FID-8_263268** SeqNo: **3465300** PrepDate: **14-Oct-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	25.62	1.7	33.33	0	76.9	70 - 130				
Surr: 2-Fluorobiphenyl	*2.932*	*0.10*	*3.33*	*0*	*88.1*	*60 - 135*				

MS Sample ID: **HS15100391-24MS** Units: **mg/Kg** Analysis Date: **15-Oct-2015 02:06**
Client ID: **SB-3 50-51'** Run ID: **FID-8_263268** SeqNo: **3465302** PrepDate: **14-Oct-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	2309	1.7	33.26	2454	-437	70 - 130				SEO
Surr: 2-Fluorobiphenyl	*27.56*	*0.10*	*3.323*	*0*	*829*	*60 - 135*				SE

MSD Sample ID: **HS15100391-24MSD** Units: **mg/Kg** Analysis Date: **15-Oct-2015 02:30**
Client ID: **SB-3 50-51'** Run ID: **FID-8_263268** SeqNo: **3465303** PrepDate: **14-Oct-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	1748	1.7	33.3	2454	-2120	70 - 130	2309	27.6	30	SEO
Surr: 2-Fluorobiphenyl	*21.67*	*0.10*	*3.327*	*0*	*651*	*60 - 135*	*27.56*	*23.9*	*30*	SE

The following samples were anayzed in this batch:

HS15100391-24	HS15100391-26	HS15100391-27	HS15100391-28
HS15100391-31	HS15100391-32	HS15100391-35	HS15100391-36
HS15100391-39	HS15100391-40	HS15100391-41	HS15100391-42
HS15100391-43	HS15100391-44	HS15100391-47	HS15100391-48
HS15100391-51	HS15100391-52	HS15100391-55	HS15100391-56

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

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

QC BATCH REPORT

Batch ID: R263098 **Instrument: FID-14** **Method: SW8015**

MBLK Sample ID: **BLK-151014** Units: **mg/Kg** Analysis Date: **14-Oct-2015 11:22**
Client ID: Run ID: **FID-14_263098** SeqNo: **3461783** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	U	0.050								
Surr: 4-Bromofluorobenzene	*0.08188*	*0.0050*	*0.1*	*0*	*81.9*	*70 - 130*				

LCS Sample ID: **LCS-151014** Units: **mg/Kg** Analysis Date: **14-Oct-2015 10:50**
Client ID: Run ID: **FID-14_263098** SeqNo: **3461781** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.059	0.050	1	0	106	70 - 130				
Surr: 4-Bromofluorobenzene	*0.09586*	*0.0050*	*0.1*	*0*	*95.9*	*70 - 130*				

MS Sample ID: **HS15100391-10MS** Units: **mg/Kg** Analysis Date: **14-Oct-2015 17:24**
Client ID: **SB-1 70-71'** Run ID: **FID-14_263098** SeqNo: **3461805** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9297	0.050	1	0	93.0	70 - 130				
Surr: 4-Bromofluorobenzene	*0.08348*	*0.0050*	*0.1*	*0*	*83.5*	*70 - 130*				

MSD Sample ID: **HS15100391-10MSD** Units: **mg/Kg** Analysis Date: **14-Oct-2015 17:40**
Client ID: **SB-1 70-71'** Run ID: **FID-14_263098** SeqNo: **3461806** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.7291	0.050	1	0	72.9	70 - 130	0.9297	24.2	30	
Surr: 4-Bromofluorobenzene	*0.07549*	*0.0050*	*0.1*	*0*	*75.5*	*70 - 130*	*0.08348*	*10.1*	*30*	

The following samples were anayzed in this batch:

HS15100391-01	HS15100391-02	HS15100391-03	HS15100391-06
HS15100391-08	HS15100391-10	HS15100391-11	HS15100391-12
HS15100391-14	HS15100391-15	HS15100391-17	HS15100391-18
HS15100391-19	HS15100391-22	HS15100391-24	HS15100391-26
HS15100391-27	HS15100391-28	HS15100391-31	HS15100391-32

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

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

QC BATCH REPORT

Batch ID: R263109 **Instrument: FID-14** **Method: SW8015**

MBLK Sample ID: **BLK-151014** Units: **mg/Kg** Analysis Date: **14-Oct-2015 20:04**
Client ID: Run ID: **FID-14_263109** SeqNo: **3461933** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	U	0.050								
Surr: 4-Bromofluorobenzene	*0.07458*	*0.0050*	*0.1*	*0*	*74.6*	*70 - 130*				

LCS Sample ID: **LCS-151014** Units: **mg/Kg** Analysis Date: **14-Oct-2015 19:31**
Client ID: Run ID: **FID-14_263109** SeqNo: **3461932** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.977	0.050	1	0	97.7	70 - 130				
Surr: 4-Bromofluorobenzene	*0.09104*	*0.0050*	*0.1*	*0*	*91.0*	*70 - 130*				

MS Sample ID: **HS15100391-35MS** Units: **mg/Kg** Analysis Date: **14-Oct-2015 20:35**
Client ID: **SB-6 5-6'** Run ID: **FID-14_263109** SeqNo: **3461935** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9794	0.050	1	0	97.9	70 - 130				
Surr: 4-Bromofluorobenzene	*0.08596*	*0.0050*	*0.1*	*0*	*86.0*	*70 - 130*				

MSD Sample ID: **HS15100391-35MSD** Units: **mg/Kg** Analysis Date: **14-Oct-2015 20:51**
Client ID: **SB-6 5-6'** Run ID: **FID-14_263109** SeqNo: **3461936** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.9415	0.050	1	0	94.2	70 - 130	0.9794	3.95	30	
Surr: 4-Bromofluorobenzene	*0.08062*	*0.0050*	*0.1*	*0*	*80.6*	*70 - 130*	*0.08596*	*6.41*	*30*	

The following samples were anayzed in this batch:

HS15100391-35	HS15100391-36	HS15100391-39	HS15100391-40
HS15100391-41	HS15100391-42	HS15100391-43	HS15100391-44
HS15100391-47	HS15100391-48	HS15100391-51	HS15100391-52
HS15100391-55	HS15100391-56		

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

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

QC BATCH REPORT

Batch ID: R262848 **Instrument: VOA5** **Method: SW8260**

MBLK Sample ID: **VBLKS2-101015** Units: **ug/Kg** Analysis Date: **10-Oct-2015 21:18**
Client ID: Run ID: **VOA5_262848** SeqNo: **3456651** 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								
m,p-Xylene	U	10								
o-Xylene	U	5.0								
Toluene	U	5.0								
Xylenes, Total	U	10								
Surr: 1,2-Dichloroethane-d4	*47.98*	*0*	*50*	*0*	*96.0*	*70 - 128*				
Surr: 4-Bromofluorobenzene	*45.25*	*0*	*50*	*0*	*90.5*	*73 - 126*				
Surr: Dibromofluoromethane	*51.5*	*0*	*50*	*0*	*103*	*71 - 128*				
Surr: Toluene-d8	*50.85*	*0*	*50*	*0*	*102*	*73 - 127*				

LCS Sample ID: **VLCSS2-101015** Units: **ug/Kg** Analysis Date: **10-Oct-2015 20:32**
Client ID: Run ID: **VOA5_262848** SeqNo: **3456650** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.67	5.0	50	0	97.3	79 - 122				
Ethylbenzene	48.44	5.0	50	0	96.9	80 - 122				
m,p-Xylene	94.69	10	100	0	94.7	79 - 122				
o-Xylene	47.57	5.0	50	0	95.1	80 - 123				
Toluene	47.73	5.0	50	0	95.5	79 - 120				
Xylenes, Total	142.3	10	150	0	94.8	80 - 120				
Surr: 1,2-Dichloroethane-d4	*52.24*	*0*	*50*	*0*	*104*	*70 - 128*				
Surr: 4-Bromofluorobenzene	*47.96*	*0*	*50*	*0*	*95.9*	*73 - 126*				
Surr: Dibromofluoromethane	*54*	*0*	*50*	*0*	*108*	*71 - 128*				
Surr: Toluene-d8	*48.88*	*0*	*50*	*0*	*97.8*	*73 - 127*				

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

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

QC BATCH REPORT

Batch ID: R262848 **Instrument: VOA5** **Method: SW8260**

MS Sample ID: **HS15100391-56MS** Units: **ug/Kg** Analysis Date: **10-Oct-2015 22:52**
Client ID: **SB-11 10-11'** Run ID: **VOA5_262848** SeqNo: **3456655** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	36.66	5.0	50	0	73.3	79 - 122				S
Ethylbenzene	34.56	5.0	50	0	69.1	80 - 122				S
m,p-Xylene	68.5	10	100	0	68.5	79 - 122				S
o-Xylene	33.75	5.0	50	0	67.5	80 - 123				S
Toluene	36.11	5.0	50	0	72.2	79 - 120				S
Xylenes, Total	102.2	10	150	0	68.2	80 - 120				S
Surr: 1,2-Dichloroethane-d4	*53.15*	*0*	*50*	*0*	*106*	*70 - 128*				
Surr: 4-Bromofluorobenzene	*47.87*	*0*	*50*	*0*	*95.7*	*73 - 126*				
Surr: Dibromofluoromethane	*54.72*	*0*	*50*	*0*	*109*	*71 - 128*				
Surr: Toluene-d8	*49.11*	*0*	*50*	*0*	*98.2*	*73 - 127*				

MSD Sample ID: **HS15100391-56MSD** Units: **ug/Kg** Analysis Date: **10-Oct-2015 23:15**
Client ID: **SB-11 10-11'** Run ID: **VOA5_262848** SeqNo: **3456656** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	35.24	5.0	50	0	70.5	79 - 122	36.66	3.94	30	S
Ethylbenzene	32.98	5.0	50	0	66.0	80 - 122	34.56	4.69	30	S
m,p-Xylene	64.49	10	100	0	64.5	79 - 122	68.5	6.04	30	S
o-Xylene	32.26	5.0	50	0	64.5	80 - 123	33.75	4.51	30	S
Toluene	33.88	5.0	50	0	67.8	79 - 120	36.11	6.38	30	S
Xylenes, Total	96.74	10	150	0	64.5	80 - 120	102.2	5.53	30	S
Surr: 1,2-Dichloroethane-d4	*55.63*	*0*	*50*	*0*	*111*	*70 - 128*	*53.15*	*4.56*	*30*	
Surr: 4-Bromofluorobenzene	*48.19*	*0*	*50*	*0*	*96.4*	*73 - 126*	*47.87*	*0.686*	*30*	
Surr: Dibromofluoromethane	*56.22*	*0*	*50*	*0*	*112*	*71 - 128*	*54.72*	*2.7*	*30*	
Surr: Toluene-d8	*49.46*	*0*	*50*	*0*	*98.9*	*73 - 127*	*49.11*	*0.711*	*30*	

The following samples were anayzed in this batch:

HS15100391-03	HS15100391-17	HS15100391-18	HS15100391-19
HS15100391-27	HS15100391-28	HS15100391-31	HS15100391-32
HS15100391-35	HS15100391-36	HS15100391-39	HS15100391-40
HS15100391-43	HS15100391-44	HS15100391-47	HS15100391-48
HS15100391-51	HS15100391-52	HS15100391-55	HS15100391-56

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

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

QC BATCH REPORT

Batch ID: R262855 **Instrument: VOA8** **Method: SW8260**

MBLK Sample ID: **VBLKS1-101215** Units: **ug/Kg** Analysis Date: **12-Oct-2015 09:02**
Client ID: Run ID: **VOA8_262855** SeqNo: **3456890** 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							
m,p-Xylene	U	10							
o-Xylene	U	5.0							
Toluene	U	5.0							
Xylenes, Total	U	10							
Surr: 1,2-Dichloroethane-d4	*41.54*	*0*	*50*	*0*	*83.1*	*70 - 128*			
Surr: 4-Bromofluorobenzene	*48.38*	*0*	*50*	*0*	*96.8*	*73 - 126*			
Surr: Dibromofluoromethane	*47.87*	*0*	*50*	*0*	*95.7*	*71 - 128*			
Surr: Toluene-d8	*50.05*	*0*	*50*	*0*	*100*	*73 - 127*			

LCS Sample ID: **VLCSS1-101215** Units: **ug/Kg** Analysis Date: **12-Oct-2015 08:15**
Client ID: Run ID: **VOA8_262855** SeqNo: **3456889** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	56.69	5.0	50	0	113	79 - 122			
Ethylbenzene	53.31	5.0	50	0	107	80 - 122			
m,p-Xylene	109.5	10	100	0	109	79 - 122			
o-Xylene	53.79	5.0	50	0	108	80 - 123			
Toluene	53.79	5.0	50	0	108	79 - 120			
Xylenes, Total	163.2	10	150	0	109	80 - 120			
Surr: 1,2-Dichloroethane-d4	*50.4*	*0*	*50*	*0*	*101*	*70 - 128*			
Surr: 4-Bromofluorobenzene	*50.41*	*0*	*50*	*0*	*101*	*73 - 126*			
Surr: Dibromofluoromethane	*50.6*	*0*	*50*	*0*	*101*	*71 - 128*			
Surr: Toluene-d8	*48.26*	*0*	*50*	*0*	*96.5*	*73 - 127*			

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

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

QC BATCH REPORT

Batch ID: R262855 **Instrument: VOA8** **Method: SW8260**

MS Sample ID: **HS15100391-12MS** Units: **ug/Kg** Analysis Date: **12-Oct-2015 11:22**
Client ID: **SB-2 10-11'** Run ID: **VOA8_262855** SeqNo: **3457173** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	36.65	5.0	50	0	73.3	79 - 122				S
Ethylbenzene	27.98	5.0	50	0	56.0	80 - 122				S
m,p-Xylene	54.72	10	100	0	54.7	79 - 122				S
o-Xylene	27.52	5.0	50	0	55.0	80 - 123				S
Toluene	31.62	5.0	50	0	63.2	79 - 120				S
Xylenes, Total	82.23	10	150	0	54.8	80 - 120				S
Surr: 1,2-Dichloroethane-d4	*51.97*	*0*	*50*	*0*	*104*	*70 - 128*				
Surr: 4-Bromofluorobenzene	*50.63*	*0*	*50*	*0*	*101*	*73 - 126*				
Surr: Dibromofluoromethane	*43.5*	*0*	*50*	*0*	*87.0*	*71 - 128*				
Surr: Toluene-d8	*48.63*	*0*	*50*	*0*	*97.3*	*73 - 127*				

MSD Sample ID: **HS15100391-12MSD** Units: **ug/Kg** Analysis Date: **12-Oct-2015 11:46**
Client ID: **SB-2 10-11'** Run ID: **VOA8_262855** SeqNo: **3457174** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	28.43	5.0	50	0	56.9	79 - 122	36.65	25.3	30	S
Ethylbenzene	17.86	5.0	50	0	35.7	80 - 122	27.98	44.1	30	SR
m,p-Xylene	33.93	10	100	0	33.9	79 - 122	54.72	46.9	30	SR
o-Xylene	16.83	5.0	50	0	33.7	80 - 123	27.52	48.2	30	SR
Toluene	22.94	5.0	50	0	45.9	79 - 120	31.62	31.8	30	SR
Xylenes, Total	50.76	10	150	0	33.8	80 - 120	82.23	47.3	30	SR
Surr: 1,2-Dichloroethane-d4	*52.76*	*0*	*50*	*0*	*106*	*70 - 128*	*51.97*	*1.51*	*30*	
Surr: 4-Bromofluorobenzene	*49.3*	*0*	*50*	*0*	*98.6*	*73 - 126*	*50.63*	*2.66*	*30*	
Surr: Dibromofluoromethane	*51.55*	*0*	*50*	*0*	*103*	*71 - 128*	*43.5*	*17*	*30*	
Surr: Toluene-d8	*50.36*	*0*	*50*	*0*	*101*	*73 - 127*	*48.63*	*3.5*	*30*	

The following samples were anayzed in this batch: HS15100391-01 HS15100391-02 HS15100391-11 HS15100391-12 HS15100391-18

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

QC BATCH REPORT

Batch ID: R262859 **Instrument: VOA6** **Method: SW8260**

MBLK Sample ID: **VBLKW-151009** Units: **ug/L** Analysis Date: **09-Oct-2015 23:19**
Client ID: Run ID: **VOA6_262859** SeqNo: **3456973** 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	15								
Surr: 1,2-Dichloroethane-d4	*46.12*	*0*	*50*	*0*	*92.2*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*44.11*	*0*	*50*	*0*	*88.2*	*72 - 125*				
Surr: Dibromofluoromethane	*47.79*	*0*	*50*	*0*	*95.6*	*71 - 125*				
Surr: Toluene-d8	*47.24*	*0*	*50*	*0*	*94.5*	*75 - 125*				

LCS Sample ID: **VLCSW-151009** Units: **ug/L** Analysis Date: **09-Oct-2015 22:06**
Client ID: Run ID: **VOA6_262859** SeqNo: **3456972** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	48.24	5.0	50	0	96.5	73 - 121				
Ethylbenzene	45.13	5.0	50	0	90.3	80 - 120				
Toluene	47.11	5.0	50	0	94.2	80 - 120				
Xylenes, Total	137.2	15	150	0	91.5	80 - 120				
Surr: 1,2-Dichloroethane-d4	*47.82*	*0*	*50*	*0*	*95.6*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*48.75*	*0*	*50*	*0*	*97.5*	*72 - 125*				
Surr: Dibromofluoromethane	*47.36*	*0*	*50*	*0*	*94.7*	*71 - 125*				
Surr: Toluene-d8	*47.78*	*0*	*50*	*0*	*95.6*	*75 - 125*				

MS Sample ID: **HS15100303-06MS** Units: **ug/L** Analysis Date: **10-Oct-2015 00:55**
Client ID: Run ID: **VOA6_262859** SeqNo: **3456977** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	42.46	5.0	50	0	84.9	73 - 121				
Ethylbenzene	40.39	5.0	50	0	80.8	80 - 120				
Toluene	41.71	5.0	50	0	83.4	80 - 120				
Xylenes, Total	117	15	150	0	78.0	80 - 120				S
Surr: 1,2-Dichloroethane-d4	*45.8*	*0*	*50*	*0*	*91.6*	*70 - 125*				
Surr: 4-Bromofluorobenzene	*47.72*	*0*	*50*	*0*	*95.4*	*72 - 125*				
Surr: Dibromofluoromethane	*46*	*0*	*50*	*0*	*92.0*	*71 - 125*				
Surr: Toluene-d8	*46.47*	*0*	*50*	*0*	*92.9*	*75 - 125*				

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

QC BATCH REPORT

Batch ID: R262859 **Instrument: VOA6** **Method: SW8260**

MSD Sample ID: **HS15100303-06MSD** Units: **ug/L** Analysis Date: **10-Oct-2015 01:19**
Client ID: Run ID: **VOA6_262859** SeqNo: **3456978** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Benzene	43.22	5.0	50	0	86.4	73 - 121	42.46	1.76	20	
Ethylbenzene	39.95	5.0	50	0	79.9	80 - 120	40.39	1.09	20	S
Toluene	42.29	5.0	50	0	84.6	80 - 120	41.71	1.39	20	
Xylenes, Total	120.6	15	150	0	80.4	78 - 121	117	3.06	20	
Surr: 1,2-Dichloroethane-d4	*44.97*	*0*	*50*	*0*	*89.9*	*70 - 125*	*45.8*	*1.84*	*20*	
Surr: 4-Bromofluorobenzene	*47.79*	*0*	*50*	*0*	*95.6*	*72 - 125*	*47.72*	*0.137*	*20*	
Surr: Dibromofluoromethane	*47.23*	*0*	*50*	*0*	*94.5*	*71 - 125*	*46*	*2.64*	*20*	
Surr: Toluene-d8	*47.16*	*0*	*50*	*0*	*94.3*	*75 - 125*	*46.47*	*1.47*	*20*	

The following samples were anayzed in this batch: HS15100391-59

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

QC BATCH REPORT

Batch ID: 98035 **Instrument: ICS3000** **Method: SW9056**

MBLK Sample ID: **MBLK-98035** Units: **mg/Kg** Analysis Date: **14-Oct-2015 11:17**
Client ID: Run ID: **ICS3000_263126** SeqNo: **3462346** PrepDate: **13-Oct-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	5.00								

LCS Sample ID: **LCS-98035** Units: **mg/Kg** Analysis Date: **14-Oct-2015 11:38**
Client ID: Run ID: **ICS3000_263126** SeqNo: **3462347** PrepDate: **13-Oct-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	210.2	5.00	200	0	105	80 - 120				

LCSD Sample ID: **LCSD-98035** Units: **mg/Kg** Analysis Date: **14-Oct-2015 11:59**
Client ID: Run ID: **ICS3000_263126** SeqNo: **3462348** PrepDate: **13-Oct-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	210.3	5.00	200	0	105	80 - 120	210.2	0.0713	20	

MS Sample ID: **HS15100391-01MS** Units: **mg/Kg** Analysis Date: **14-Oct-2015 12:42**
Client ID: **SB-1 5-6'** Run ID: **ICS3000_263126** SeqNo: **3462350** PrepDate: **13-Oct-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	252.7	4.75	94.94	161.9	95.7	80 - 120				

MSD Sample ID: **HS15100391-01MSD** Units: **mg/Kg** Analysis Date: **14-Oct-2015 13:03**
Client ID: **SB-1 5-6'** Run ID: **ICS3000_263126** SeqNo: **3462351** PrepDate: **13-Oct-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	237.8	4.68	93.62	161.9	81.1	80 - 120	252.7	6.08	20	

The following samples were anayzed in this batch:

HS15100391-01	HS15100391-02	HS15100391-03	HS15100391-04
HS15100391-06	HS15100391-07	HS15100391-08	HS15100391-09
HS15100391-10	HS15100391-11	HS15100391-12	HS15100391-14
HS15100391-16	HS15100391-17	HS15100391-18	HS15100391-19
HS15100391-20	HS15100391-22	HS15100391-23	HS15100391-24

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

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

QC BATCH REPORT

Batch ID: 98036 **Instrument: ICS3000** **Method: SW9056**

MBLK Sample ID: **MBLK-98036** Units: **mg/Kg** Analysis Date: **14-Oct-2015 21:31**
Client ID: Run ID: **ICS3000_263129** SeqNo: **3462452** PrepDate: **13-Oct-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	5.00								

LCS Sample ID: **LCS-98036** Units: **mg/Kg** Analysis Date: **14-Oct-2015 21:53**
Client ID: Run ID: **ICS3000_263129** SeqNo: **3462453** PrepDate: **13-Oct-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	205.7	5.00	200	0	103	80 - 120				

LCSD Sample ID: **LCSD-98036** Units: **mg/Kg** Analysis Date: **14-Oct-2015 22:14**
Client ID: Run ID: **ICS3000_263129** SeqNo: **3462454** PrepDate: **13-Oct-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	204.5	5.00	200	0	102	80 - 120	205.7	0.609	20	

MS Sample ID: **HS15100391-25MS** Units: **mg/Kg** Analysis Date: **14-Oct-2015 22:56**
Client ID: **SB-3 60-61'** Run ID: **ICS3000_263129** SeqNo: **3462456** PrepDate: **13-Oct-2015** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	3720	46.0	920.3	2717	109	80 - 120				

MSD Sample ID: **HS15100391-25MSD** Units: **mg/Kg** Analysis Date: **15-Oct-2015 00:00**
Client ID: **SB-3 60-61'** Run ID: **ICS3000_263129** SeqNo: **3462459** PrepDate: **13-Oct-2015** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	4664	46.0	920.6	2717	212	80 - 120	3720	22.5	20	SR

The following samples were anayzed in this batch:

HS15100391-25	HS15100391-26	HS15100391-27	HS15100391-28
HS15100391-29	HS15100391-30	HS15100391-31	HS15100391-32
HS15100391-33	HS15100391-34	HS15100391-35	HS15100391-36
HS15100391-37	HS15100391-38	HS15100391-39	HS15100391-40
HS15100391-41	HS15100391-42	HS15100391-43	HS15100391-44

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

QC BATCH REPORT

Batch ID: 98037 **Instrument: ICS3000** **Method: SW9056**

MBLK Sample ID: **MBLK-98037** Units: **mg/Kg** Analysis Date: **15-Oct-2015 10:49**
Client ID: Run ID: **ICS3000_263159** SeqNo: **3462998** PrepDate: **14-Oct-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	5.00								

LCS Sample ID: **LCS-98037** Units: **mg/Kg** Analysis Date: **15-Oct-2015 11:10**
Client ID: Run ID: **ICS3000_263159** SeqNo: **3462999** PrepDate: **14-Oct-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	218.8	5.00	200	0	109	80 - 120				

LCSD Sample ID: **LCSD-98037** Units: **mg/Kg** Analysis Date: **15-Oct-2015 11:31**
Client ID: Run ID: **ICS3000_263159** SeqNo: **3463000** PrepDate: **14-Oct-2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	213.6	5.00	200	0	107	80 - 120	218.8	2.42	20	

MS Sample ID: **HS15100391-45MS** Units: **mg/Kg** Analysis Date: **15-Oct-2015 12:13**
Client ID: **SB-8 15-16'** Run ID: **ICS3000_263159** SeqNo: **3463002** PrepDate: **14-Oct-2015** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1102	24.2	484.5	619.3	99.6	80 - 120				

MSD Sample ID: **HS15100391-45MSD** Units: **mg/Kg** Analysis Date: **15-Oct-2015 12:34**
Client ID: **SB-8 15-16'** Run ID: **ICS3000_263159** SeqNo: **3463003** PrepDate: **14-Oct-2015** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1140	24.3	486.9	619.3	107	80 - 120	1102	3.4	20	

The following samples were anayzed in this batch:

HS15100391-45	HS15100391-46	HS15100391-47	HS15100391-48
HS15100391-49	HS15100391-50	HS15100391-51	HS15100391-52
HS15100391-53	HS15100391-54	HS15100391-55	HS15100391-56
HS15100391-57	HS15100391-58		

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

QC BATCH REPORT

Batch ID: R262872 **Instrument: Balance1** **Method: SW3550**

DUP Sample ID: **HS15100391-58DUP** Units: **wt%** Analysis Date: **12-Oct-2015 11:53**
Client ID: **SB-11 19-20'** Run ID: **Balance1_262872** SeqNo: **3457146** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	10.4	0.0100					11	5.61	20	

The following samples were anayzed in this batch:

HS15100391-39	HS15100391-40	HS15100391-41	HS15100391-42
HS15100391-43	HS15100391-44	HS15100391-45	HS15100391-46
HS15100391-47	HS15100391-48	HS15100391-49	HS15100391-50
HS15100391-51	HS15100391-52	HS15100391-53	HS15100391-54
HS15100391-55	HS15100391-56	HS15100391-57	HS15100391-58

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

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

QC BATCH REPORT

Batch ID: R262873 **Instrument: Balance1** **Method: SW3550**

DUP Sample ID: **HS15100391-38DUP** Units: **wt%** Analysis Date: **12-Oct-2015 11:58**
Client ID: **SB-6 19-20'** Run ID: **Balance1_262873** SeqNo: **3457170** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	24.1	0.0100					23.8	1.25	20	

The following samples were anayzed in this batch:

HS15100391-20	HS15100391-22	HS15100391-23	HS15100391-24
HS15100391-25	HS15100391-26	HS15100391-27	HS15100391-28
HS15100391-29	HS15100391-30	HS15100391-31	HS15100391-32
HS15100391-33	HS15100391-34	HS15100391-35	HS15100391-36
HS15100391-37	HS15100391-38		

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: HS15100391

QC BATCH REPORT

Batch ID: R262898 **Instrument: Balance1** **Method: SW3550**

DUP Sample ID: **HS15100391-19DUP** Units: **wt%** Analysis Date: **12-Oct-2015 13:43**
Client ID: **SB-3 15-16'** Run ID: **Balance1_262898** SeqNo: **3457616** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Percent Moisture	18.3	0.0100					20	8.88	20	

The following samples were anayzed in this batch:

HS15100391-01	HS15100391-02	HS15100391-03	HS15100391-04
HS15100391-06	HS15100391-07	HS15100391-08	HS15100391-09
HS15100391-10	HS15100391-11	HS15100391-12	HS15100391-14
HS15100391-16	HS15100391-17	HS15100391-18	HS15100391-19

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

ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
WorkOrder: **HS15100391**

QUALIFIERS, ACRONYMS, UNITS

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

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

Unit Reported	Description
mg/Kg-dry	Milligrams per Kilogram- Dry weight corrected
mg/L	Milligrams per Liter

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ALS Group USA, Corp Date: 20-Oct-15

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	15-024-0	27-Mar-2016
California	2919	31-Jul-2016
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003622	09-May-2016
Kansas	E-10352 2014-2015	30-Nov-2015
Kentucky	KY 2015-2016	30-Apr-2016
Louisiana	03087 2015/2016	30-Jun-2016
North Carolina	624 - 2015	31-Dec-2015
North Dakota	R-193 2015-2016	30-Apr-2016
Oklahoma	2015-047	31-Aug-2016
Texas	T104704231-15-15	30-Apr-2016

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Work Order: HS15100391

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS15100391-01	SB-1 5-6'	Login	10/9/2015 3:45:15 PM	DJW	VW-2
HS15100391-02	SB-1 10-11'	Login	10/9/2015 3:45:15 PM	DJW	VW-2
HS15100391-03	SB-1 15-16'	Login	10/9/2015 3:45:15 PM	DJW	VW-2
HS15100391-04	SB-1 20-21'	Login	10/9/2015 3:45:15 PM	DJW	14C
HS15100391-05	SB-1 25-26'	Login	10/9/2015 3:45:15 PM	DJW	14C
HS15100391-06	SB-1 30-31'	Login	10/9/2015 3:45:15 PM	DJW	14C
HS15100391-07	SB-1 40-41'	Login	10/9/2015 3:45:15 PM	DJW	14C
HS15100391-08	SB-1 50-51'	Login	10/9/2015 3:45:15 PM	DJW	14C
HS15100391-09	SB-1 60-61'	Login	10/9/2015 3:45:15 PM	DJW	14C
HS15100391-10	SB-1 70-71'	Login	10/9/2015 3:45:15 PM	DJW	14C
HS15100391-11	SB-2 5-6'	Login	10/9/2015 3:45:15 PM	DJW	VW-2
HS15100391-12	SB-2 10-11'	Login	10/9/2015 3:45:15 PM	DJW	VW-2
HS15100391-13	SB-2 15-16'	Login	10/9/2015 3:45:15 PM	DJW	14C
HS15100391-14	SB-2 20-21'	Login	10/9/2015 3:45:15 PM	DJW	14C
HS15100391-15	SB-2 25-26'	Login	10/9/2015 3:45:15 PM	DJW	14C
HS15100391-16	SB-2 30-31'	Login	10/9/2015 3:45:15 PM	DJW	14C
HS15100391-17	SB-3 5-6'	Login	10/9/2015 3:45:15 PM	DJW	VW-2
HS15100391-18	SB-3 10-11'	Login	10/9/2015 3:45:15 PM	DJW	VW-2
HS15100391-19	SB-3 15-16'	Login	10/9/2015 3:45:15 PM	DJW	VW-2
HS15100391-20	SB-3 20-21'	Login	10/9/2015 3:45:15 PM	DJW	14C
HS15100391-21	SB-3 25-26'	Login	10/9/2015 3:45:15 PM	DJW	14C
HS15100391-22	SB-3 30-31'	Login	10/9/2015 3:45:15 PM	DJW	14C
HS15100391-23	SB-3 40-41'	Login	10/9/2015 3:45:15 PM	DJW	14C
HS15100391-24	SB-3 50-51'	Login	10/9/2015 3:45:15 PM	DJW	14C
HS15100391-25	SB-3 60-61'	Login	10/9/2015 3:45:15 PM	DJW	14C
HS15100391-26	SB-3 70-71'	Login	10/9/2015 3:45:15 PM	DJW	14C
HS15100391-27	SB-4 5-6'	Login	10/9/2015 3:45:15 PM	DJW	VW-2
HS15100391-28	SB-4 10-11'	Login	10/9/2015 3:45:15 PM	DJW	VW-2
HS15100391-29	SB-4 15-16'	Login	10/9/2015 3:45:15 PM	DJW	14C
HS15100391-30	SB-4 20-21'	Login	10/9/2015 3:45:15 PM	DJW	14C
HS15100391-31	SB-5 5-6'	Login	10/9/2015 3:50:44 PM	DJW	VW-2
HS15100391-32	SB-5 10-11'	Login	10/9/2015 3:50:44 PM	DJW	VW-2
HS15100391-33	SB-5 15-16'	Login	10/9/2015 3:50:44 PM	DJW	14C
HS15100391-34	SB-5 19-20'	Login	10/9/2015 3:50:44 PM	DJW	14C
HS15100391-35	SB-6 5-6'	Login	10/9/2015 3:50:44 PM	DJW	VW-2
HS15100391-36	SB-6 10-11'	Login	10/9/2015 3:50:44 PM	DJW	VW-2
HS15100391-37	SB-6 15-16'	Login	10/9/2015 3:50:44 PM	DJW	14C
HS15100391-38	SB-6 19-20'	Login	10/9/2015 3:50:44 PM	DJW	14C
HS15100391-39	SB-7 5-6'	Login	10/9/2015 3:50:44 PM	DJW	VW-2
HS15100391-40	SB-7 10-11'	Login	10/9/2015 3:50:44 PM	DJW	VW-2

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ALS Group USA, Corp Date: 20-Oct-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill EC Federal 7 TB
Work Order: HS15100391

SAMPLE TRACKING

HS15100391-41	SB-7 15-16'	Login	10/9/2015 3:50:44 PM	DJW	14C
HS15100391-42	SB-7 19-20'	Login	10/9/2015 3:50:44 PM	DJW	14C
HS15100391-43	SB-8 5-6'	Login	10/9/2015 3:50:44 PM	DJW	VW-2
HS15100391-44	SB-8 10-11'	Login	10/9/2015 3:50:44 PM	DJW	VW-2
HS15100391-45	SB-8 15-16'	Login	10/9/2015 3:50:44 PM	DJW	14C
HS15100391-46	SB-8 19-20'	Login	10/9/2015 3:50:44 PM	DJW	14C
HS15100391-47	SB-9 5-6'	Login	10/9/2015 3:50:44 PM	DJW	VW-2
HS15100391-48	SB-9 10-11'	Login	10/9/2015 3:50:44 PM	DJW	VW-2
HS15100391-49	SB-9 15-16'	Login	10/9/2015 3:50:44 PM	DJW	14C
HS15100391-50	SB-9 19-20'	Login	10/9/2015 3:50:44 PM	DJW	14C
HS15100391-51	SB-10 5-6'	Login	10/9/2015 3:50:44 PM	DJW	VW-2
HS15100391-52	SB-10 10-11'	Login	10/9/2015 3:50:44 PM	DJW	VW-2
HS15100391-53	SB-10 15-16'	Login	10/9/2015 3:50:44 PM	DJW	14C
HS15100391-54	SB-10 19-20'	Login	10/9/2015 3:50:44 PM	DJW	14C
HS15100391-55	SB-11 5-6'	Login	10/9/2015 3:50:44 PM	DJW	VW-2
HS15100391-56	SB-11 10-11'	Login	10/9/2015 3:50:44 PM	DJW	VW-2
HS15100391-57	SB-11 15-16'	Login	10/9/2015 3:50:44 PM	DJW	14C
HS15100391-58	SB-11 19-20'	Login	10/9/2015 3:50:44 PM	DJW	14C
HS15100391-59	Trip Blank	Login	10/9/2015 3:50:44 PM	DJW	VW-3

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ALS Group USA, Corp Date: 20-Oct-15

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **09-Oct-2015 08:44**

Work Order: HS15100391 Received by: **RPG**

Checklist completed by: *Corey Grandits* 9-Oct-2015
eSignature Date

Reviewed by: *Dane J. Wacasey* 11-Oct-2015
eSignature Date

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	0.5c/0.4c , 1.1c/1.0c uc/c	IR1	
Cooler(s)/Kit(s):	5170 , Lg Blue		
Date/Time sample(s) sent to storage:	10/09/2015 17:25		
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: No collection time on chain of custody or labels: Logged as 00:00. Sample SB-3 10-11' on chain of custody: Label ID of SB-3 10-15'. Logged per COC.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:

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ALS Environmental

Chain of Custody Form

Page 1 of 6

COC ID: 22586

ALS Project Manager: | ALS Work Order #:

Customer Information

Purchase Order	4501709538
Work Order	
Company Name	Glenn Springs Holdings
Send Report To	Angela Bown
Address	c/o GHD 9033 Meridian Way
City/State/Zip	West Chester, OH 45069
Phone	(513) 942-4750
Fax	
e-Mail Address	

Project Information

Project Name	GSHI PXP E.C. Hill B-D #7 TB
Project Number	55627 PM (ENV 749A0C)
Bill To Company	Glenn Springs Holdings
Invoice Attn	Jennifer Devonshire
Address	c/o GHD 2055 Niagara Falls Blvd, Suite 3
City/State/Zip	Niagara Falls, NY 14304
Phone	
Fax	
e-Mail Address	

Parameter/Method Request for Analysis

A: 8021B BTEX
B: 8015 Mod. TPH
C: Chloride 300
D:
E:
F:
G:
H:
I:
J:

HS15100391

Glenn Springs Holdings, Inc.

55627DM GSHI PXP Hill E.C. Federal #7 TB

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-1 5-6'	9/30/15	—	Soil	8	1	X	X	X								
2	" 10-11'		—				X	X	X								
3	" 15-16'		—				X	X	X								
4	" 20-21'		—						X								
5	" 25-26'		—														X
6	" 30-31'		—						X								
7	" 40-41'		—						X								
8	" 50-51'		—						X								
9	" 60-61'		—						X								
10	" 70-71'		—						X								

Sampler(s) Please Print & Sign: Todd Wells, Todd Wells

Shipment Method: FedEx

Required Turnaround Time: (Check Box) ☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other

Results Due Date:

Notes:

Relinquished by: Todd Wells	Date: 10/8/15	Time: 5:00	Received by:
Relinquished by:	Date:	Time:	Received by (Laboratory): 10109115 08:44 RG Sima
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Cooler ID	Cooler Temp
5170	0.5
1g Blue	1.1

QC Package: (Check One Box Below)
☐ 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-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

IR#1 CF-0-1

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

Chain of Custody Form

Page 2 of 6

COC ID: 22587

ALS Project Manager:		ALS Work Order #:	

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	E.C. Hill B-D, #7TB	A	BTEX 8021B
Work Order		Project Number		B	TPH 8015 Mod.
Company Name	Glenn Springs Holdings	Bill To Company	Glenn Springs Holdings	C	Chloride 300
Send Report To		Invoice Attn		D	
Address		Address		E	
				F	
City/State/Zip		City/State/Zip		G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

HS15100391

Glenn Springs Holdings, Inc.

55627DM GSHI PXP Hill E.C. Federal #7 TB

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-2 5-6'	9/30/15	—	Soil	8	1	X	X	X								
2	10-11'																
3	15-16'																
4	20-21'																X
5	25-26'																
6	30-31'																X
7	SB-3 5-6'																
8	10-11'																
9	15-16'																
10	20-21'																

Sampler(s) Please Print & Sign: Todd Wells Todd Wells

Shipment Method: Fed Ex

Required Turnaround Time: (Check Box) ☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other _____

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
Todd Wells	10/8/15	5:00	
Relinquished by:	Date:	Time:	Received by (Laboratory): 10/09/15 08:44 RG Sima
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp
	4/C
5170	0.5
Ig Blue	1.1

QC Package: (Check One Box Below)

☐ 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-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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South Cha... +1 304 35...
York, PA +1 717 505 5280

Chain of Custody Form

Page 3 of 6

COC ID: 22588

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis
Purchase Order		Project Name	E.C. Hill B-Deff 7 TB	A BTEX 8021B
Work Order		Project Number		B TPH 8015 Mod.
Company Name	Glenn Springs Holdings	Bill To Company	Glenn Springs Holdings	C Chloride 300
Send Report To		Invoice Attn		D
Address		Address		E HS15100391
				F Glenn Springs Holdings, Inc.
City/State/Zip		City/State/Zip		G 55627DM GSHI PXP Hill E.C. Federal #7 TB
Phone		Phone		H
Fax		Fax		I
e-Mail Address		e-Mail Address		J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-3 25-26'	9/30/15	—	Soil	8	1			X								X
2	30-31'								X								
3	40-41'								X								
4	50-51'								X								
5	60-61'								X								
6	70-71'								X								
7	SB-4 5-6'	10/1/15					X	X	X								
8	10-11'								X								
9	15-16'								X								
10	20-21'								X								

Sampler(s) Please Print & Sign: Todd Wells, Todd Wells
Shipment Method: FedEx
Required Turnaround Time: (Check Box) ☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other
Results Due Date:

Relinquished by: Todd Wells Date: 10/8/15 Time: 5:00
Received by:
Relinquished by: Date: Time:
Received by (Laboratory): RG sima 10/09/15 08:44
Logged by (Laboratory): Date: Time:
Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp
	4/C
5170	0.5
lg Blue	1.1

QC Package: (Check One Box Below)
☐ 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-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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

Chain of Custody Form

Page 4 of 6

COC ID: 22589

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis
Purchase Order		Project Name	E.C. Hill B-D, #7 TB	A BTEX 8021 B
Work Order		Project Number		B TPH 8015 Mod
Company Name	GSH	Bill To Company	GSH	C Chloride 300
Send Report To		Invoice Attn		D
Address		Address		E
				F HS15100391
City/State/Zip		City/State/Zip		G Glenn Springs Holdings, Inc.
Phone		Phone		H 55627DM GSHI PXP Hill E.C. Federal #7 TB
Fax		Fax		I
e-Mail Address		e-Mail Address		J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-5 5-6'	10/1/15	—	Soil	8	1	X	X	X								
2	10-11'																
3	15-16'																
4	19-20'																
5	SB-6 5-6'						X	X	X								
6	10-11'																
7	15-16'																
8	19-20'																
9	SB-7 5-6'						X	X	X								
10	10-11'																

Sampler(s) Please Print & Sign: Todd Wells Todd Wells

Shipment Method: Fed Ex

Required Turnaround Time: (Check Box) ☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other _____

Results Due Date:

Relinquished by: Todd Wells	Date: 10/8/15	Time: 5:15	Received by:	Notes:
Relinquished by:	Date:	Time:	Received by (Laboratory): RGT Sima 10/09/15 08:44	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Cooler ID	Cooler Temp
5170	0.5
lg Blue	1.1

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other _____

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

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

IR#1 CIF-01

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Page 506 of 760

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Analysis Request

HS15100391

Glenn Springs Holdings, Inc.

55627DM GSHI PXP Hill E.C. Federal #7 TB



PAGE: 5 OF: 6

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: Glenn Springs Holdings | SITE MANAGER:

PROJECT NO.: | PROJECT NAME: E.C. Hill B-D #7 TB

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH TX1005 (Ext. to C35)	TPH 8015 MOD.	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride 300	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
	10/1/15	—	S		X	SB-7 15-16'	1				X															X				
						19-20'	1																			X				
						SB-8 5-6'	1						X	X	X											X				
						10-11'	1						X	X	X											X				
						15-16'	1																			X				
						19-20'	1																			X				
						SB-9 5-6'	1						X	X	X											X				
						10-11'	1						X	X	X											X				
						15-16'	1																			X				
						19-20'	1																			X				

RELINQUISHED BY: (Signature) Todd Wells — Date: 10/8/15 Time: 15:15
RECEIVED BY: (Signature) — Date: — Time:

RELINQUISHED BY: (Signature) — Date: — Time:
RECEIVED BY: (Signature) — Date: — Time:

RELINQUISHED BY: (Signature) — Date: — Time:
RECEIVED BY: (Signature) — Date: — Time:

SAMPLED BY: (Print & Initial) Todd Wells TW — Date: 10/8/15 Time: 1500

SAMPLE SHIPPED BY: (Circle)
FEDEX BUS
HAND DELIVERED UPS
AIRBILL #:
OTHER:

TETRA TECH CONTACT PERSON:
Cooler # 5170 lgBlue
Temp 4/C 0.5 1.1

Results by:

RUSH Charges Authorized: Yes No

RECEIVING LABORATORY:
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature) RGT Sima
DATE: 10/09/15 TIME: 08:44

SAMPLE CONDITION WHEN RECEIVED:

REMARKS:
IR#1 CIF-0-1

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

Page 507 of 760

Analysis Request c

HS15100391

Glenn Springs Holdings, Inc.

55627DM GSHI PXP Hill E.C. Federal #7 TB

TE
191
Mic
(432

PAGE: 6 OF: 6

CLIENT NAME: Glenn Springs Holdings

SITE MANAGER:

PROJECT NO.:

PROJECT NAME: E.C. Hill B-D, E#7 TB

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH TX1005 (Ext. to C35) MOD. 8015	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride 300	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
	10/1/15		S		X	SB-10 5-6'	1				X		X	X											X				
						10-11'	1				X		X	X											X				
						15-16'	1				X														X				
						19-20'	1				X														X				
						SB-11 5-6'	1				X		X	X											X				
						10-11'	1				X		X	X											X				
						15-16'	1				X														X				
						19-20'	1				X														X				
						~~Trip Blank~~							X																	

RELINQUISHED BY: (Signature) Date: 10/8/15 Time: 11:15

RECEIVED BY: (Signature) Date: Time:

SAMPLED BY: (Print & Initial) Todd Wells TW Date: 10/8/15 Time: 15:00

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS

AIRBILL #:

OTHER:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

TETRA TECH CONTACT PERSON:

Results by:

RECEIVING LABORATORY:

ADDRESS:

CITY: STATE: ZIP:

CONTACT: PHONE:

RECEIVED BY: (Signature) RG Hinw

DATE: 10/09/15 TIME: 08:44

Cooler # ~~5170~~ 5170 Temp 0.5 UIC

Log Blue 1.1

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED:

REMARKS:

IR#1 C1F-0.1

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

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

5170

CUSTODY SEAL
Date: 10/8/15 Time: 3:00
Name: Todd Wells
Company:

Seal Broken By: SM
Date: 10/09/15

5170 10/09/15

FedEx
TRK# 0215 8079 4508 9939

10:30A
PRIORITY OVERNIGHT

43 SGRA 5170

77099
TX-US
IAH

290240 09Oct 01:59 AFWHU 539C3/401A/14AA

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

lg Blue

CUSTODY SEAL
Date: 10/8/15 Time: 5:15
Name: Todd Wells
Company:

Seal Broken By: SM
Date: 10/09/15

lg Blue 10/09/15

2 of 2
MPS# 0681 7814 8128 4153
Mstr# 8079 4508 9939 0215

FRI – 09 OCT 10:30A
PRIORITY OVERNIGHT

AB SGRA lg Blue

77099
TX-US IAH

Appendix D

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

November 05, 2015

Angela Bown
Glenn Springs Holdings, Inc.

PO Box 485
Addison, TX 75001

Work Order: **HS15110171**

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

Dear Angela,

ALS Environmental received 6 sample(s) on Nov 04, 2015 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: Jumoke.Lawal
Dane J. Wacasey

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 05-Nov-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS15110171

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS15110171-01	MW-7 Sample 1	Water		28-Oct-2015 09:55	04-Nov-2015 09:00	☐
HS15110171-02	MW-7 Sample 2	Water		28-Oct-2015 11:45	04-Nov-2015 09:00	☐
HS15110171-03	MW-7 Sample 3	Water		28-Oct-2015 13:15	04-Nov-2015 09:00	☐
HS15110171-04	MW-7 Sample 4	Water		28-Oct-2015 13:45	04-Nov-2015 09:00	☐
HS15110171-05	MW-7 Sample 5	Water		28-Oct-2015 14:45	04-Nov-2015 09:00	☐
HS15110171-06	MW-7 Sample 6	Water		28-Oct-2015 15:00	04-Nov-2015 09:00	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 05-Nov-15

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS15110171

WetChemistry by Method E300

Batch ID: R264295

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

Analyst Initials and Name:
JBA Johnnie B. Allen

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 05-Nov-15

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS15110171
Sample ID:	MW-7 Sample 1	Lab ID:HS15110171-01
Collection Date:	28-Oct-2015 09:55	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**1,340**		**20.0**	**50.0**	**mg/L**	100	04-Nov-2015 19:51

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 05-Nov-15

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS15110171
Sample ID: MW-7 Sample 2
Lab ID:HS15110171-02
Collection Date: 28-Oct-2015 11:45
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**1,010**		**10.0**	**25.0**	**mg/L**	50	04-Nov-2015 20:06

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 05-Nov-15

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS15110171
Sample ID:	MW-7 Sample 3	Lab ID:HS15110171-03
Collection Date:	28-Oct-2015 13:15	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**852**		**10.0**	**25.0**	**mg/L**	50	04-Nov-2015 20:21

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 05-Nov-15

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS15110171
Sample ID:	MW-7 Sample 4	Lab ID:HS15110171-04
Collection Date:	28-Oct-2015 13:45	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**856**		**10.0**	**25.0**	**mg/L**	50	04-Nov-2015 20:35

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 05-Nov-15

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS15110171
Sample ID:	MW-7 Sample 5	Lab ID:HS15110171-05
Collection Date:	28-Oct-2015 14:45	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**813**		**10.0**	**25.0**	**mg/L**	50	04-Nov-2015 20:50

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 05-Nov-15

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS15110171
Sample ID:	MW-7 Sample 6	Lab ID:HS15110171-06
Collection Date:	28-Oct-2015 15:00	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**1,000**		**10.0**	**25.0**	**mg/L**	50	04-Nov-2015 21:04

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 05-Nov-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15110171

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R264295	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS15110171-01	MW-7 Sample 1	28 Oct 2015 09:55			04 Nov 2015 19:51	100
HS15110171-02	MW-7 Sample 2	28 Oct 2015 11:45			04 Nov 2015 20:06	50
HS15110171-03	MW-7 Sample 3	28 Oct 2015 13:15			04 Nov 2015 20:21	50
HS15110171-04	MW-7 Sample 4	28 Oct 2015 13:45			04 Nov 2015 20:35	50
HS15110171-05	MW-7 Sample 5	28 Oct 2015 14:45			04 Nov 2015 20:50	50
HS15110171-06	MW-7 Sample 6	28 Oct 2015 15:00			04 Nov 2015 21:04	50

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 05-Nov-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15110171

QC BATCH REPORT

Batch ID: R264295 **Instrument: ICS2100** **Method: E300**

MBLK Sample ID: **WBLKW1-110415** Units: **mg/L** Analysis Date: **04-Nov-2015 11:28**
Client ID: Run ID: **ICS2100_264295** SeqNo: **3484661** 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: **WLCSW1-110415** Units: **mg/L** Analysis Date: **04-Nov-2015 11:43**
Client ID: Run ID: **ICS2100_264295** SeqNo: **3484662** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.35	0.500	20	0	96.8	90 - 110				

LCSD Sample ID: **WLCSDW1-110415** Units: **mg/L** Analysis Date: **04-Nov-2015 11:57**
Client ID: Run ID: **ICS2100_264295** SeqNo: **3484663** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.65	0.500	20	0	98.3	90 - 110	19.35	1.53	20	

MS Sample ID: **HS15110171-06MS** Units: **mg/L** Analysis Date: **04-Nov-2015 21:19**
Client ID: **MW-7 Sample 6** Run ID: **ICS2100_264295** SeqNo: **3484686** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1507	25.0	500	999.7	101	80 - 120				

MS Sample ID: **HS15110076-01MS** Units: **mg/L** Analysis Date: **04-Nov-2015 13:53**
Client ID: Run ID: **ICS2100_264295** SeqNo: **3484665** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.19	0.500	10	10.29	99.0	80 - 120				

MSD Sample ID: **HS15110171-06MSD** Units: **mg/L** Analysis Date: **04-Nov-2015 21:33**
Client ID: **MW-7 Sample 6** Run ID: **ICS2100_264295** SeqNo: **3484687** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1490	25.0	500	999.7	98.0	80 - 120	1507	1.12	20	

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 05-Nov-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS15110171

QC BATCH REPORT

Batch ID: R264295 **Instrument: ICS2100** **Method: E300**

MSD Sample ID: **HS15110076-01MSD** Units: **mg/L** Analysis Date: **04-Nov-2015 14:08**
Client ID: Run ID: **ICS2100_264295** SeqNo: **3484666** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.46	0.500	10	10.29	102	80 - 120	20.19	1.32	20	

The following samples were anayzed in this batch: HS15110171-01 HS15110171-02 HS15110171-03 HS15110171-04 HS15110171-05 HS15110171-06

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

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ALS Group USA, Corp Date: 05-Nov-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS15110171**

QUALIFIERS, ACRONYMS, UNITS

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

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

Unit Reported	Description
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 05-Nov-15

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	15-024-0	27-Mar-2016
California	2919	31-Jul-2016
Dept of Defense	L2231 Rev 3-20-2014	22-Dec-2015
Illinois	003622	09-May-2016
Kansas	E-10352 2014-2015	30-Nov-2015
Kentucky	KY 2015-2016	30-Apr-2016
Louisiana	03087 2015/2016	30-Jun-2016
North Carolina	624 - 2015	31-Dec-2015
North Dakota	R-193 2015-2016	30-Apr-2016
Oklahoma	2015-047	31-Aug-2016
Texas	T104704231-15-15	30-Apr-2016

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 05-Nov-15

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS15110171

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS15110171-01	MW-7 Sample 1	Login	11/4/2015 6:59:55 PM	PMG	2B
HS15110171-02	MW-7 Sample 2	Login	11/4/2015 7:02:52 PM	PMG	2B
HS15110171-03	MW-7 Sample 3	Login	11/4/2015 7:02:52 PM	PMG	2B
HS15110171-04	MW-7 Sample 4	Login	11/4/2015 7:02:52 PM	PMG	2B
HS15110171-05	MW-7 Sample 5	Login	11/4/2015 7:02:52 PM	PMG	2B
HS15110171-06	MW-7 Sample 6	Login	11/4/2015 7:02:52 PM	PMG	2B

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 05-Nov-15

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **04-Nov-2015 09:00**

Work Order: HS15110171 Received by: **BHH**

Checklist completed by: *Paresh M. Giga* 4-Nov-2015
eSignature Date

Reviewed by: Dane Wacasey 5-Nov-2015
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 ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.5c/4.8c U/C	IR4	
Cooler(s)/Kit(s):	2626		
Date/Time sample(s) sent to storage:	11/4/15 19:10		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:

RIGHT SOLUTIONS | RIGHT PARTNER

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

Chain of Custody Form

Page 1 of 1

COC ID: 130064

HS15110171

Glenn Springs Holdings, Inc.

55627DM GSHI PXP Hill E.C. Federal #7 TB

Customer Information		Project Information		ALS Project Manager:	
Purchase Order	4501709538	Project Name	GSHI PXP Hill, E.C. Federal #7 TB	A	Chloride (300)
Work Order		Project Number	55627DM	B	
Company Name	Glenn Springs Holdings	Bill To Company	Glenn Springs Holdings	C	
Send Report To	Angela Bown	Invoice Attn	Jennifer Devonshire	D	
Address	C/O CRA 9033 Merridian Way	Address	C/O CRA 2055 Niagara Falls Blvd. Suite 3	E	
				F	
City/State/Zip	West Chester,Ohio,45069	City/State/Zip	Niagara Falls, NY 14304	G	
Phone	(513) 942-4750	Phone		H	
Fax		Fax		I	
e-Mail Address	abown@craworld.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 Sample 1	10-28-15	09:55	Water	8	1	X										
2	MW-7 Sample 2	10-28-15	11:45	Water	8	1	X										
3	MW-7 Sample 3	10-28-15	13:15	Water	8	1	X										
4	MW-7 Sample 4	10-28-15	13:45	Water	8	1	X										
5	MW-7 Sample 5	10-28-15	14:45	Water	8	1	X										
6	MW-7 Sample 6	10-28-15	15:00	Water	8	1	X										
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Bill D. Smith Bill D. Smith

Shipment Method: FedEx

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

Results Due Date:

Notes: 10 Day TAT

Relinquished by:	Date: 11/3/15	Time: 16:30	Received by:		
Relinquished by:	Date:	Time:	Received by (Laboratory): BH	11.4.15	09:00
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):		

Cooler ID	Cooler Temp.
	UIC.
2626	4.5°
	#4
	CF 0.3°

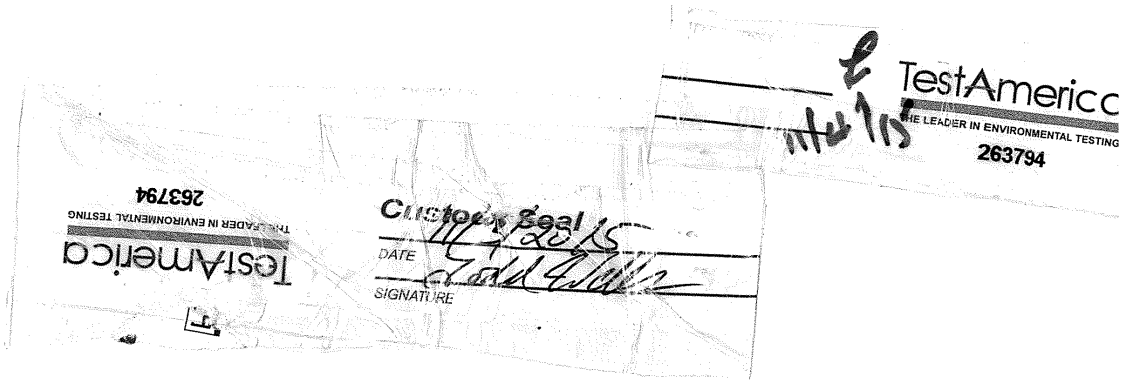
QC Package: (Check One Box Below)
[X] Level 2 Std QC [ ] TRRP ChkList
[ ] Level 3 Std QC/Row da [ ] TRRP Level 4
[ ] Level 4 SW846/CLP
[ ] Other/EDD

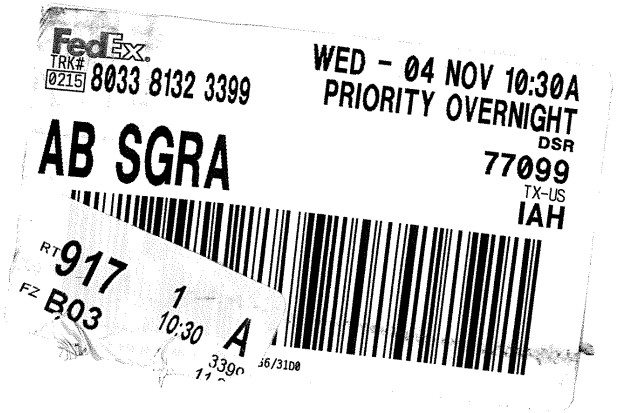
Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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

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

May 12, 2016

Angela Bown
Glenn Springs Holdings, Inc.

PO Box 2148
Houston, TX 77252-2148

Work Order: **HS16050128**

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

Dear Angela,

ALS Environmental received 6 sample(s) on May 03, 2016 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: Dane.Wacasey
Dane J. Wacasey

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 12-May-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16050128

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS16050128-01	MW-7 Sample 1	Water		21-Apr-2016 12:58	03-May-2016 08:52	☐
HS16050128-02	MW-7 Sample 2	Water		21-Apr-2016 14:02	03-May-2016 08:52	☐
HS16050128-03	MW-7 Sample 3	Water		21-Apr-2016 14:55	03-May-2016 08:52	☐
HS16050128-04	MW-7 Sample 4	Water		21-Apr-2016 15:40	03-May-2016 08:52	☐
HS16050128-05	MW-7 Sample 5	Water		21-Apr-2016 16:38	03-May-2016 08:52	☐
HS16050128-06	MW-7 Sample 6	Water		21-Apr-2016 17:20	03-May-2016 08:52	☐

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 12-May-16

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16050128

WetChemistry by Method E300

Batch ID: R274133

Sample ID: **CCB**
- CCB recoveries bracketing sample HS16050128-06 MW-7 Sample 6 (HS16050128-06 50x) detected chloride above the PQL (0.703 mg/L and 2.33 mg/L), however, the concentration in the sample was greater than 10x the CCB concentrations. No further corrective action is required.

Sample ID: **HS16050210-01**
- MS and MSD are for an unrelated sample.

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ALS Group USA, Corp Date: 12-May-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16050128
Sample ID:	MW-7 Sample 1	Lab ID:HS16050128-01
Collection Date:	21-Apr-2016 12:58	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**925**		**10.0**	**25.0**	**mg/L**	50	10-May-2016 20:26

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

ALS Group USA, Corp Date: 12-May-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16050128
Sample ID: MW-7 Sample 2
Lab ID:HS16050128-02
Collection Date: 21-Apr-2016 14:02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**923**		**10.0**	**25.0**	**mg/L**	50	10-May-2016 21:10

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

ALS Group USA, Corp Date: 12-May-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16050128
Sample ID: MW-7 Sample 3
Lab ID:HS16050128-03
Collection Date: 21-Apr-2016 14:55
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**830**		**10.0**	**25.0**	**mg/L**	50	10-May-2016 21:25

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

ALS Group USA, Corp Date: 12-May-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16050128
Sample ID: MW-7 Sample 4
Lab ID:HS16050128-04
Collection Date: 21-Apr-2016 15:40
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**783**		**10.0**	**25.0**	**mg/L**	50	10-May-2016 21:39

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

ALS Group USA, Corp Date: 12-May-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16050128
Sample ID: MW-7 Sample 5
Lab ID:HS16050128-05
Collection Date: 21-Apr-2016 16:38
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**743**		**10.0**	**25.0**	**mg/L**	50	10-May-2016 21:54

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

ALS Group USA, Corp Date: 12-May-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16050128
Sample ID: MW-7 Sample 6
Lab ID:HS16050128-06
Collection Date: 21-Apr-2016 17:20
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**756**		**10.0**	**25.0**	**mg/L**	50	11-May-2016 09:54

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

ALS Group USA, Corp Date: 12-May-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16050128

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R274133	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS16050128-01	MW-7 Sample 1	21 Apr 2016 12:58			10 May 2016 20:26	50
HS16050128-02	MW-7 Sample 2	21 Apr 2016 14:02			10 May 2016 21:10	50
HS16050128-03	MW-7 Sample 3	21 Apr 2016 14:55			10 May 2016 21:25	50
HS16050128-04	MW-7 Sample 4	21 Apr 2016 15:40			10 May 2016 21:39	50
HS16050128-05	MW-7 Sample 5	21 Apr 2016 16:38			10 May 2016 21:54	50
HS16050128-06	MW-7 Sample 6	21 Apr 2016 17:20			11 May 2016 09:54	50

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ALS Group USA, Corp Date: 12-May-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16050128

QC BATCH REPORT

Batch ID: R274133 **Instrument: ICS2100** **Method: E300**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW3-051016** Units: **mg/L** Analysis Date: **10-May-2016 19:43**										
Client ID: Run ID: **ICS2100_274133** SeqNo: **3679909** PrepDate: DF: **1**										
Chloride	U	0.500								
LCS Sample ID: **WLCSW3-051016** Units: **mg/L** Analysis Date: **10-May-2016 19:57**										
Client ID: Run ID: **ICS2100_274133** SeqNo: **3679910** PrepDate: DF: **1**										
Chloride	20.03	0.500	20	0	100	90 - 110				
LCSD Sample ID: **WLCSDW3-051016** Units: **mg/L** Analysis Date: **10-May-2016 20:12**										
Client ID: Run ID: **ICS2100_274133** SeqNo: **3679911** PrepDate: DF: **1**										
Chloride	19.66	0.500	20	0	98.3	90 - 110	20.03	1.9	20	
MS Sample ID: **HS16050210-01MS** Units: **mg/L** Analysis Date: **10-May-2016 23:06**										
Client ID: Run ID: **ICS2100_274133** SeqNo: **3679923** PrepDate: DF: **1**										
Chloride	280.6	0.500	10	293.1	-125	80 - 120				SEO
MS Sample ID: **HS16050128-01MS** Units: **mg/L** Analysis Date: **10-May-2016 20:41**										
Client ID: **MW-7 Sample 1** Run ID: **ICS2100_274133** SeqNo: **3679913** PrepDate: DF: **50**										
Chloride	1429	25.0	500	924.9	101	80 - 120				
MSD Sample ID: **HS16050210-01MSD** Units: **mg/L** Analysis Date: **10-May-2016 23:21**										
Client ID: Run ID: **ICS2100_274133** SeqNo: **3679924** PrepDate: DF: **1**										
Chloride	294.6	0.500	10	293.1	14.3	80 - 120	280.6	4.86	20	SEO

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

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ALS Group USA, Corp Date: 12-May-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16050128

QC BATCH REPORT

Batch ID: R274133 **Instrument: ICS2100** **Method: E300**

MSD Sample ID: **HS16050128-01MSD** Units: **mg/L** Analysis Date: **10-May-2016 20:56**
Client ID: **MW-7 Sample 1** Run ID: **ICS2100_274133** SeqNo: **3679914** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1431	25.0	500	924.9	101	80 - 120	1429	0.116	20	

The following samples were anayzed in this batch: HS16050128-01 HS16050128-02 HS16050128-03 HS16050128-04 HS16050128-05 HS16050128-06

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

ALS Group USA, Corp Date: 12-May-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS16050128**

QUALIFIERS, ACRONYMS, UNITS

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

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

Unit Reported	Description
mg/L	Milligrams per Liter

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ALS Group USA, Corp Date: 12-May-16

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	16-022-0	27-Mar-2017
California	2919	31-Jul-2016
Kansas	E-10352 2014-2015	31-Jul-2016
Louisiana	03087 2015/2016	30-Jun-2016
North Carolina	624 - 2016	31-Dec-2016
North Dakota	R193 2016-2017	30-Apr-2017
Oklahoma	2015-047	31-Aug-2016
Texas	TX104704231-16-16	30-Apr-2017

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ALS Group USA, Corp Date: 12-May-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16050128

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS16050128-01	MW-7 Sample 1	Login	5/3/2016 6:50:31 PM	CGG	7B
HS16050128-02	MW-7 Sample 2	Login	5/3/2016 6:50:31 PM	CGG	7B
HS16050128-03	MW-7 Sample 3	Login	5/3/2016 6:50:31 PM	CGG	7B
HS16050128-04	MW-7 Sample 4	Login	5/3/2016 6:50:31 PM	CGG	7B
HS16050128-05	MW-7 Sample 5	Login	5/3/2016 6:50:31 PM	CGG	7B
HS16050128-06	MW-7 Sample 6	Login	5/3/2016 6:50:31 PM	CGG	7B

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Group USA, Corp Date: 12-May-16

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **03-May-2016 08:52**

Work Order: HS16050128 Received by: **NDR**

Checklist completed by: *Corey Grandits* eSignature 3-May-2016 Date

Reviewed by: *Dane J. Wacasey* eSignature 5-May-2016 Date

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.8c/3.4c uc/c	IR#4	
Cooler(s)/Kit(s):	24810		
Date/Time sample(s) sent to storage:	05/03/2016 18:55		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:

ALS Environmental

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

Chain of Custody Form

Page 1 of 1

COC ID: 130064

HS16050128

Glenn Springs Holdings, Inc.

55627DM GSHI PXP Hill E.C. Federal #7 TB

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	~~4501709538~~ 4502201559	Project Name	GSHI PXP Hill, E.C. Federal #7 TB	A	Chloride (300)
Work Order		Project Number	55627DM	B	
Company Name	Glenn Springs Holdings	Bill To Company	Glenn Springs Holdings	C	
Send Report To	Angela Bown	Invoice Attn	Jennifer Devonshire	D	
Address	C/O CRA 9033 Merridian Way	Address	C/O CRA 2055 Niagara Falls Blvd. Suite 3	E	
				F	
City/State/Zip	West Chester,Ohio,45069	City/State/Zip	Niagara Falls, NY 14304	G	
Phone	(513) 942-4750	Phone		H	
Fax		Fax		I	
e-Mail Address	abown@craworld.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 Sample 1	4/21/16	12:58	Water	8	1	X										
2	MW-7 Sample 2		14:02	Water	8	1	X										
3	MW-7 Sample 3		14:55	Water	8	1	X										
4	MW-7 Sample 4		15:40	Water	8	1	X										
5	MW-7 Sample 5		16:38	Water	8	1	X										
6	MW-7 Sample 6		17:20	Water	8	1	X										
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Todd Wells Todd Wells

Shipment Method: Fed Ex

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

Results Due Date:

Notes: ~~10 Day TAT~~

Relinquished by:	Date:	Time:	Received by:
Todd Wells	5/2/16	16:15	
Relinquished by:	Date:	Time:	Received by (Laboratory):
			NR 5.3.16. 08:52.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Cooler ID	Cooler Temp.
24810	2-8°
	#4

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

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

Note:
1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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 Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

24810

CUSTODY SEAL

Date: 5/2/16 Time: 16:15

Name: Todd Wells

Company: TetraTech

Seal Broken By:

Date: 05/03/16

24810

MAY 03 2016



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

May 27, 2016

Angela Bown
Glenn Springs Holdings, Inc.

PO Box 2148
Houston, TX 77252-2148

Work Order: **HS16051412**

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

Dear Angela,

ALS Environmental received 6 sample(s) on May 25, 2016 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: Jumoke.Lawal
Dane J. Wacasey

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 27-May-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16051412

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS16051412-01	#1 (Initial)	Water		19-May-2016 12:30	25-May-2016 08:20	☐
HS16051412-02	#2 (100 gal)	Water		19-May-2016 14:00	25-May-2016 08:20	☐
HS16051412-03	#3 (200 gal)	Water		19-May-2016 14:45	25-May-2016 08:20	☐
HS16051412-04	#4 (300 gal)	Water		19-May-2016 15:20	25-May-2016 08:20	☐
HS16051412-05	#5 (400 gal)	Water		19-May-2016 16:15	25-May-2016 08:20	☐
HS16051412-06	#6 (500 gal)	Water		19-May-2016 17:10	25-May-2016 08:20	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 27-May-16

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16051412

WetChemistry by Method E300

Batch ID: R275065

Sample ID: **HS16051413-01MS**
• MS and MSD are for an unrelated sample

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 27-May-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: #1 (Initial)
Collection Date: 19-May-2016 12:30

ANALYTICAL REPORT
WorkOrder:HS16051412
Lab ID:HS16051412-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**949**		**10.0**	**25.0**	**mg/L**	50	25-May-2016 19:10

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

RIGHT SOLUTIONS | RIGHT PARTNER
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ALS Group USA, Corp Date: 27-May-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: #1 (Initial)
Collection Date: 19-May-2016 12:30

ANALYTICAL REPORT
WorkOrder:HS16051412
Lab ID:HS16051412-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**949**		**10.0**	**25.0**	**mg/L**	50	25-May-2016 19:10

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 27-May-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16051412
Sample ID:	#2 (100 gal)	Lab ID:HS16051412-02
Collection Date:	19-May-2016 14:00	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**816**		**10.0**	**25.0**	**mg/L**	50	25-May-2016 19:24

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

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 27-May-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: #3 (200 gal)
Collection Date: 19-May-2016 14:45

ANALYTICAL REPORT
WorkOrder:HS16051412
Lab ID:HS16051412-03
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**712**		**10.0**	**25.0**	**mg/L**	50	25-May-2016 19:39

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 27-May-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: #4 (300 gal)
Collection Date: 19-May-2016 15:20

ANALYTICAL REPORT
WorkOrder:HS16051412
Lab ID:HS16051412-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**646**		**10.0**	**25.0**	**mg/L**	50	25-May-2016 19:53

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

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 27-May-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16051412
Sample ID:	#5 (400 gal)	Lab ID:HS16051412-05
Collection Date:	19-May-2016 16:15	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**613**		**10.0**	**25.0**	**mg/L**	50	25-May-2016 20:08

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 27-May-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: #6 (500 gal)
Collection Date: 19-May-2016 17:10

ANALYTICAL REPORT
WorkOrder:HS16051412
Lab ID:HS16051412-06
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**602**		**10.0**	**25.0**	**mg/L**	50	25-May-2016 20:28

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

RIGHT SOLUTIONS | RIGHT PARTNER
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ALS Group USA, Corp Date: 27-May-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16051412

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R275065	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS16051412-01	#1 (Initial)	19 May 2016 12:30			25 May 2016 19:10	50
HS16051412-02	#2 (100 gal)	19 May 2016 14:00			25 May 2016 19:24	50
HS16051412-03	#3 (200 gal)	19 May 2016 14:45			25 May 2016 19:39	50
HS16051412-04	#4 (300 gal)	19 May 2016 15:20			25 May 2016 19:53	50
HS16051412-05	#5 (400 gal)	19 May 2016 16:15			25 May 2016 20:08	50
HS16051412-06	#6 (500 gal)	19 May 2016 17:10			25 May 2016 20:28	50

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 27-May-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16051412

QC BATCH REPORT

Batch ID: R275065 **Instrument: ICS2100** **Method: E300**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW1-052516** Units: **mg/L** Analysis Date: **25-May-2016 10:01**										
Client ID: Run ID: **ICS2100_275065** SeqNo: **3699238** PrepDate: DF: **1**										
Chloride	U	0.500								
LCS Sample ID: **WLCSW1-052516** Units: **mg/L** Analysis Date: **25-May-2016 10:16**										
Client ID: Run ID: **ICS2100_275065** SeqNo: **3699239** PrepDate: DF: **1**										
Chloride	20.35	0.500	20	0	102	90 - 110				
LCSD Sample ID: **WLCSDW1-052516** Units: **mg/L** Analysis Date: **25-May-2016 10:30**										
Client ID: Run ID: **ICS2100_275065** SeqNo: **3699240** PrepDate: DF: **1**										
Chloride	20.51	0.500	20	0	103	90 - 110	20.35	0.754	20	
MS Sample ID: **HS16051413-01MS** Units: **mg/L** Analysis Date: **25-May-2016 17:28**										
Client ID: Run ID: **ICS2100_275065** SeqNo: **3699266** PrepDate: DF: **1**										
Chloride	61.29	0.500	10	50.98	103	80 - 120				O
MS Sample ID: **HS16051353-01MS** Units: **mg/L** Analysis Date: **25-May-2016 11:24**										
Client ID: Run ID: **ICS2100_275065** SeqNo: **3699242** PrepDate: DF: **1**										
Chloride	31.34	0.500	10	22.03	93.1	80 - 120				
MSD Sample ID: **HS16051413-01MSD** Units: **mg/L** Analysis Date: **25-May-2016 17:42**										
Client ID: Run ID: **ICS2100_275065** SeqNo: **3699267** PrepDate: DF: **1**										
Chloride	58.58	0.500	10	50.98	75.9	80 - 120	61.29	4.52	20	SO

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

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 27-May-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16051412

QC BATCH REPORT

Batch ID: R275065 **Instrument: ICS2100** **Method: E300**

MSD Sample ID: **HS16051353-01MSD** Units: **mg/L** Analysis Date: **25-May-2016 11:39**
Client ID: Run ID: **ICS2100_275065** SeqNo: **3699243** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	31.01	0.500	10	22.03	89.8	80 - 120	31.34	1.03	20	

The following samples were anayzed in this batch: HS16051412-01 HS16051412-02 HS16051412-03 HS16051412-04 HS16051412-05 HS16051412-06

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

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ALS Group USA, Corp Date: 27-May-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS16051412**

QUALIFIERS, ACRONYMS, UNITS

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

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

Unit Reported	Description
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 27-May-16

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	16-022-0	27-Mar-2017
California	2919	31-Jul-2016
Kansas	E-10352 2014-2015	31-Jul-2016
Kentucky	96 2016-2017	30-Apr-2017
Louisiana	03087 2015/2016	30-Jun-2016
North Carolina	624 - 2016	31-Dec-2016
North Dakota	R193 2016-2017	30-Apr-2017
Oklahoma	2015-047	31-Aug-2016
Texas	TX104704231-16-17	30-Apr-2017

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 27-May-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16051412

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS16051412-01	#1 (Initial)	Login	5/25/2016 1:07:21 PM	CGG	16A
HS16051412-02	#2 (100 gal)	Login	5/25/2016 1:07:21 PM	CGG	16A
HS16051412-03	#3 (200 gal)	Login	5/25/2016 1:07:21 PM	CGG	16A
HS16051412-04	#4 (300 gal)	Login	5/25/2016 1:07:21 PM	CGG	16A
HS16051412-05	#5 (400 gal)	Login	5/25/2016 1:07:21 PM	CGG	16A
HS16051412-06	#6 (500 gal)	Login	5/25/2016 1:07:21 PM	CGG	16A

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ALS Group USA, Corp Date: 27-May-16

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **25-May-2016 08:20**

Work Order: HS16051412 Received by: **RPG**

Checklist completed by: *Corey Grandits* eSignature 25-May-2016 Date Reviewed by: *Dane J. Wacasey* eSignature 26-May-2016 Date

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	0.2c/0.8c uc/c	IR#5	
Cooler(s)/Kit(s):	4847		
Date/Time sample(s) sent to storage:	05/25/2016 13:13		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:

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ALS Environmental
Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Middletown, PA +1 717 944 5541
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Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

Page _____ of _____

COC ID: 145461

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	4502201559 ENV749-40	Project Name	55627DM GSHI PXP Hill E.C. Federal	A	300_W (300 Chloride)
Work Order		Project Number		B	
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc. c/o GHD	C	
Send Report To	Angela Bown	Invoice Attn	Accounts Payable	D	
Address	PO Box 2148	Address	5005 LBJ Fwy. #300	E	
				F	
City/State/Zip	Houston, TX 77252-2148	City/State/Zip	Dallas, TX 75244	G	
Phone		Phone	(972) 687-7500	H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

HS16051412

Glenn Springs Holdings, Inc.

55627DM GSHI PXP Hill E.C. Federal #7 TB

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	#1 (Initial)	5-19-2016	1230	Water		1	X										
2	#2 (100 gal.)	5-19-2016	1400	Water		1	X										
3	#3 (200 gal.)	5-19-2016	1445	Water		1	X										
4	#4 (300 gal.)	5-19-2016	1520	Water		1	X										
5	#5 (400 gal.)	5-19-2016	1615	Water		1	X										
6	#6 (500 gal.)	5-19-2016	1710	Water		1	X										
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Bill D. Smith Bill D. Smith

Shipment Method:

Required Turnaround Time: (Check Box) TAT 10 days Other:

Results Due Date:

Relinquished by: Bill D. Smith	Date: 5-23-16	Time: 1400	Received by: Clint Meritt	Notes: [GSHI PXP Hill EC Federal 7 TB]	
Relinquished by: Clint Meritt	Date: 5.24.16	Time: 16:00	Received by (Laboratory): R Cigs 5/25/16 08:20	Cooler ID	Cooler Temp.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	4847	0.2 UC
				IR 5	
				CF+0.6	

QC Package: (Check One Box Below)

QC Level STD

Other:

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

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

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

CUSTODY SEAL
Date:
Time: 16:00
Name:
Company:

FedEx
TRK# 0221 6355 5189 2351
WED – 25 MAY 10:30A
PRIORITY OVERNIGHT
AB SGRA
77099
TX-US IAH

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

June 23, 2016

Angela Bown
Glenn Springs Holdings, Inc.

PO Box 2148
Houston, TX 77252-2148

Work Order: **HS16061116**

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

Dear Angela,

ALS Environmental received 6 sample(s) on Jun 21, 2016 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: Jumoke.Lawal
Dane J. Wacasey

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 23-Jun-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16061116

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS16061116-01	Initial #1	Water		16-Jun-2016 10:50	21-Jun-2016 08:50	☐
HS16061116-02	100 gal #2	Water		16-Jun-2016 12:40	21-Jun-2016 08:50	☐
HS16061116-03	200 gal #3	Water		16-Jun-2016 14:00	21-Jun-2016 08:50	☐
HS16061116-04	300 gal #4	Water		16-Jun-2016 15:15	21-Jun-2016 08:50	☐
HS16061116-05	400 gal #5	Water		16-Jun-2016 16:05	21-Jun-2016 08:50	☐
HS16061116-06	500 gal #6	Water		16-Jun-2016 17:10	21-Jun-2016 08:50	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 23-Jun-16

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16061116

WetChemistry by Method E300

Batch ID: R276739

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

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ALS Group USA, Corp Date: 23-Jun-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16061116
Sample ID: Initial #1
Lab ID:HS16061116-01
Collection Date: 16-Jun-2016 10:50
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**954**		**10.0**	**25.0**	**mg/L**	50	21-Jun-2016 17:38

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 23-Jun-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16061116
Sample ID: 100 gal #2
Lab ID:HS16061116-02
Collection Date: 16-Jun-2016 12:40
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**777**		**10.0**	**25.0**	**mg/L**	50	21-Jun-2016 17:52

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 23-Jun-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16061116
Sample ID: 200 gal #3
Lab ID:HS16061116-03
Collection Date: 16-Jun-2016 14:00
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**693**		**10.0**	**25.0**	**mg/L**	50	21-Jun-2016 18:07

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 23-Jun-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16061116
Sample ID:	300 gal #4	Lab ID:HS16061116-04
Collection Date:	16-Jun-2016 15:15	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**605**		**10.0**	**25.0**	**mg/L**	50	21-Jun-2016 18:21

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 23-Jun-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16061116
Sample ID:	400 gal #5	Lab ID:HS16061116-05
Collection Date:	16-Jun-2016 16:05	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**677**		**10.0**	**25.0**	**mg/L**	50	21-Jun-2016 18:36

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 23-Jun-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16061116
Sample ID:	500 gal #6	Lab ID:HS16061116-06
Collection Date:	16-Jun-2016 17:10	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**629**		**10.0**	**25.0**	**mg/L**	50	21-Jun-2016 18:50

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 23-Jun-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16061116

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R276739	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS16061116-01	Initial #1	16 Jun 2016 10:50			21 Jun 2016 17:38	50
HS16061116-02	100 gal #2	16 Jun 2016 12:40			21 Jun 2016 17:52	50
HS16061116-03	200 gal #3	16 Jun 2016 14:00			21 Jun 2016 18:07	50
HS16061116-04	300 gal #4	16 Jun 2016 15:15			21 Jun 2016 18:21	50
HS16061116-05	400 gal #5	16 Jun 2016 16:05			21 Jun 2016 18:36	50
HS16061116-06	500 gal #6	16 Jun 2016 17:10			21 Jun 2016 18:50	50

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ALS Group USA, Corp Date: 23-Jun-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16061116

QC BATCH REPORT

Batch ID: R276739 **Instrument: ICS2100** **Method: E300**

MBLK	Sample ID: **WBLKW1-062116**			Units: **mg/L**		Analysis Date: **21-Jun-2016 13:07**				
Client ID:		Run ID: **ICS2100_276739**		SeqNo: **3733111**		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: **WLCSW1-062116**			Units: **mg/L**		Analysis Date: **21-Jun-2016 13:21**				
Client ID:		Run ID: **ICS2100_276739**		SeqNo: **3733112**		PrepDate:		DF: **1**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.71	0.500	20	0	104	90 - 110				
LCSD	Sample ID: **WLCSDKW1-062116**			Units: **mg/L**		Analysis Date: **21-Jun-2016 13:36**				
Client ID:		Run ID: **ICS2100_276739**		SeqNo: **3733113**		PrepDate:		DF: **1**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.3	0.500	20	0	101	90 - 110	20.71	2.02	20	
MS	Sample ID: **HS16061140-01MS**			Units: **mg/L**		Analysis Date: **21-Jun-2016 19:49**				
Client ID:		Run ID: **ICS2100_276739**		SeqNo: **3733133**		PrepDate:		DF: **1**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	18.46	0.500	10	8.789	96.7	80 - 120				
MS	Sample ID: **HS16061007-01MS**			Units: **mg/L**		Analysis Date: **21-Jun-2016 15:56**				
Client ID:		Run ID: **ICS2100_276739**		SeqNo: **3733120**		PrepDate:		DF: **1000**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	36520	500	10000	27230	92.9	80 - 120				
MSD	Sample ID: **HS16061140-01MSD**			Units: **mg/L**		Analysis Date: **21-Jun-2016 20:03**				
Client ID:		Run ID: **ICS2100_276739**		SeqNo: **3733134**		PrepDate:		DF: **1**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	18.33	0.500	10	8.789	95.4	80 - 120	18.46	0.701	20	

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

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ALS Group USA, Corp Date: 23-Jun-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16061116

QC BATCH REPORT

Batch ID: R276739 **Instrument: ICS2100** **Method: E300**

MSD Sample ID: **HS16061007-01MSD** Units: **mg/L** Analysis Date: **21-Jun-2016 16:40**
Client ID: Run ID: **ICS2100_276739** SeqNo: **3733123** PrepDate: DF: **1000**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	37570	500	10000	27230	103	80 - 120	36520	2.83	20	

The following samples were analyzed in this batch: HS16061116-01 HS16061116-02 HS16061116-03 HS16061116-04 HS16061116-05 HS16061116-06

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

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ALS Group USA, Corp Date: 23-Jun-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS16061116**

QUALIFIERS, ACRONYMS, UNITS

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

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

Unit Reported	Description
mg/L	Milligrams per Liter

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ALS Group USA, Corp Date: 23-Jun-16

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	16-022-0	27-Mar-2017
California	2919	31-Jul-2016
Kansas	E-10352 2014-2015	31-Jul-2016
Kentucky	96 2016-2017	30-Apr-2017
Louisiana	03087 2015/2016	30-Jun-2016
North Carolina	624 - 2016	31-Dec-2016
North Dakota	R193 2016-2017	30-Apr-2017
Oklahoma	2015-047	31-Aug-2016
Texas	TX104704231-16-17	30-Apr-2017

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ALS Group USA, Corp Date: 23-Jun-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16061116

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS16061116-01	Initial #1	Login	6/21/2016 11:09:45 AM	CGG	7A
HS16061116-02	100 gal #2	Login	6/21/2016 11:09:46 AM	CGG	7A
HS16061116-03	200 gal #3	Login	6/21/2016 11:09:46 AM	CGG	7A
HS16061116-04	300 gal #4	Login	6/21/2016 11:09:46 AM	CGG	7A
HS16061116-05	400 gal #5	Login	6/21/2016 11:09:47 AM	CGG	7A
HS16061116-06	500 gal #6	Login	6/21/2016 11:09:47 AM	CGG	7A

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ALS Group USA, Corp Date: 23-Jun-16

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **21-Jun-2016 08:50**

Work Order: HS16061116 Received by: **JRM**

Checklist completed by: *Corey Grandits* 21-Jun-2016
eSignature Date

Reviewed by: *Dane J. Wacasey* 22-Jun-2016
eSignature Date

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.4c/4.1c uc/c	IR#4	
Cooler(s)/Kit(s):	2907		
Date/Time sample(s) sent to storage:	06/21/2016 11:15		
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:

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Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

Page 1 of 1

COC ID: 143255

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis
Purchase Order	4502201559 ENV749-40	Project Name	55627DM GSHI PXP Hill E.C. Federal	A 300_W (300 Chloride)
Work Order		Project Number		B
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc. c/o GHD	C
Send Report To	Angela Bown	Invoice Attn	Accounts Payable	D
Address	PO Box 2148	Address	5005 LBJ Fwy. #300	E F
City/State/Zip	Houston, TX 77252-2148	City/State/Zip	Dallas, TX 75244	G
Phone		Phone	(972) 687-7500	H
Fax		Fax		I
e-Mail Address		e-Mail Address		J

HS16061116

Glenn Springs Holdings, Inc.

55627DM GSHI PXP Hill E.C. Federal #7 TB

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Initial #1	6-16-16	1050	Water	None	1	✓										
2	100 gal. #2	6-16-16	1240	Water	None	1	✓										
3	200 gal. #3	6-16-16	1400	Water	None	1	✓										
4	300 gal. #4	6-16-16	1515	Water	None	1	✓										
5	400 gal. #5	6-16-16	1605	Water	None	1	✓										
6	500 gal. #6	6-16-16	1710	Water	None	1	✓										
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Bill D. Smith / Bill D. Smith

Shipment Method:

Required Turnaround Time: (Check Box) TAT 10 days Other

Results Due Date:

Relinquished by: Bill D. Smith	Date: 6-20-16	Time: 15:00	Received by:	Notes: [GSHI PXP Hill EC Federal 7 TB]	
Relinquished by:	Date:	Time:	Received by (Laboratory): JM 06/21/16 08:50	Cooler ID	Cooler Temp.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	2907	3.4 IR4 CF 0.7

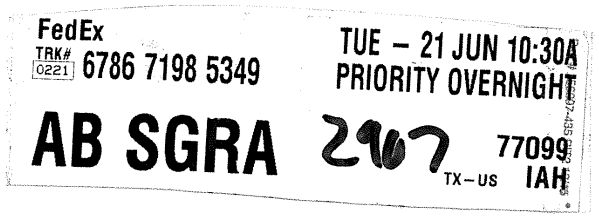
QC Package: (Check One Box Below) QC Level STD Other:

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

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

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

September 07, 2016

Angela Bown
Glenn Springs Holdings, Inc.

PO Box 2148
Houston, TX 77252-2148

Work Order: **HS16090047**

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

Dear Angela,

ALS Environmental received 6 sample(s) on Sep 01, 2016 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: Dayna.Fisher
Dane J. Wacasey

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ALS Group USA, Corp Date: 07-Sep-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16090047

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS16090047-01	MW-7 Sample 1	Water		18-Aug-2016 12:20	01-Sep-2016 08:35	☐
HS16090047-02	MW-7 Sample 2	Water		18-Aug-2016 13:15	01-Sep-2016 08:35	☐
HS16090047-03	MW-7 Sample 3	Water		18-Aug-2016 15:05	01-Sep-2016 08:35	☐
HS16090047-04	MW-7 Sample 4	Water		18-Aug-2016 15:55	01-Sep-2016 08:35	☐
HS16090047-05	MW-7 Sample 5	Water		18-Aug-2016 16:55	01-Sep-2016 08:35	☐
HS16090047-06	MW-7 Sample 6	Water		18-Aug-2016 17:55	01-Sep-2016 08:35	☐

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ALS Group USA, Corp Date: 07-Sep-16

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16090047

WetChemistry by Method E300

Batch ID: R280865

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

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ALS Group USA, Corp Date: 07-Sep-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 Sample 1
Collection Date: 18-Aug-2016 12:20

ANALYTICAL REPORT
WorkOrder:HS16090047
Lab ID:HS16090047-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**881**		**10.0**	**25.0**	**mg/L**	50	03-Sep-2016 04:32

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 07-Sep-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16090047
Sample ID:	MW-7 Sample 2	Lab ID:HS16090047-02
Collection Date:	18-Aug-2016 13:15	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**843**		**10.0**	**25.0**	**mg/L**	50	03-Sep-2016 05:35

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

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 07-Sep-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16090047
Sample ID:	MW-7 Sample 3	Lab ID:HS16090047-03
Collection Date:	18-Aug-2016 15:05	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**792**		**10.0**	**25.0**	**mg/L**	50	03-Sep-2016 05:57

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 07-Sep-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**	
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16090047	
Sample ID:	MW-7 Sample 4	Lab ID:HS16090047-04	
Collection Date:	18-Aug-2016 15:55	Matrix:Water	

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**755**		**10.0**	**25.0**	**mg/L**	50	03-Sep-2016 06:39

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

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ALS Group USA, Corp Date: 07-Sep-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16090047
Sample ID:	MW-7 Sample 5	Lab ID:HS16090047-05
Collection Date:	18-Aug-2016 16:55	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**706**		**10.0**	**25.0**	**mg/L**	50	03-Sep-2016 07:00

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

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ALS Group USA, Corp Date: 07-Sep-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**	
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16090047	
Sample ID:	MW-7 Sample 6	Lab ID:HS16090047-06	
Collection Date:	18-Aug-2016 17:55	Matrix:Water	

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**678**		**10.0**	**25.0**	**mg/L**	50	03-Sep-2016 08:04

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

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ALS Group USA, Corp Date: 07-Sep-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16090047

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R280865	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS16090047-01	MW-7 Sample 1	18 Aug 2016 12:20			03 Sep 2016 04:32	50
HS16090047-02	MW-7 Sample 2	18 Aug 2016 13:15			03 Sep 2016 05:35	50
HS16090047-03	MW-7 Sample 3	18 Aug 2016 15:05			03 Sep 2016 05:57	50
HS16090047-04	MW-7 Sample 4	18 Aug 2016 15:55			03 Sep 2016 06:39	50
HS16090047-05	MW-7 Sample 5	18 Aug 2016 16:55			03 Sep 2016 07:00	50
HS16090047-06	MW-7 Sample 6	18 Aug 2016 17:55			03 Sep 2016 08:04	50

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 07-Sep-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16090047

QC BATCH REPORT

Batch ID: R280865 **Instrument: ICS3000** **Method: E300**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW1-090216** Units: **mg/L** Analysis Date: **02-Sep-2016 13:32**										
Client ID: Run ID: **ICS3000_280865** SeqNo: **3815671** PrepDate: DF: **1**										
Chloride	U	0.500								
LCS Sample ID: **WLCSW1-090216** Units: **mg/L** Analysis Date: **02-Sep-2016 13:53**										
Client ID: Run ID: **ICS3000_280865** SeqNo: **3815672** PrepDate: DF: **1**										
Chloride	19.51	0.500	20	0	97.5	90 - 110				
LCSD Sample ID: **WLCSDW1-090216** Units: **mg/L** Analysis Date: **02-Sep-2016 14:15**										
Client ID: Run ID: **ICS3000_280865** SeqNo: **3815673** PrepDate: DF: **1**										
Chloride	19.6	0.500	20	0	98.0	90 - 110	19.51	0.455	20	
MS Sample ID: **HS16090047-01MS** Units: **mg/L** Analysis Date: **03-Sep-2016 04:53**										
Client ID: **MW-7 Sample 1** Run ID: **ICS3000_280865** SeqNo: **3815697** PrepDate: DF: **50**										
Chloride	1389	25.0	500	881.4	101	80 - 120				
MS Sample ID: **HS16081376-07MS** Units: **mg/L** Analysis Date: **03-Sep-2016 01:00**										
Client ID: Run ID: **ICS3000_280865** SeqNo: **3815688** PrepDate: DF: **20**										
Chloride	192.9	10.0	200	0.854	96.0	80 - 120				
MSD Sample ID: **HS16090047-01MSD** Units: **mg/L** Analysis Date: **03-Sep-2016 05:14**										
Client ID: **MW-7 Sample 1** Run ID: **ICS3000_280865** SeqNo: **3815698** PrepDate: DF: **50**										
Chloride	1385	25.0	500	881.4	101	80 - 120	1389	0.246	20	

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

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ALS Group USA, Corp Date: 07-Sep-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16090047

QC BATCH REPORT

Batch ID: R280865 **Instrument: ICS3000** **Method: E300**

MSD Sample ID: **HS16081376-07MSD** Units: **mg/L** Analysis Date: **03-Sep-2016 01:21**
Client ID: Run ID: **ICS3000_280865** SeqNo: **3815689** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	195.2	10.0	200	0.854	97.2	80 - 120	192.9	1.21	20	

The following samples were analyzed in this batch: HS16090047-01 HS16090047-02 HS16090047-03 HS16090047-04 HS16090047-05 HS16090047-06

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

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ALS Group USA, Corp Date: 07-Sep-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS16090047**

QUALIFIERS, ACRONYMS, UNITS

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

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

Unit Reported	Description
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 07-Sep-16

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	16-022-1	27-Mar-2017
Illinois	003872	09-May-2017
Kansas	E-10352 2015-2016	30-Sep-2016
Kentucky	96 2016-2017	30-Apr-2017
Louisiana	03087 2016/2017	30-Jun-2017
North Carolina	624 - 2016	31-Dec-2016
North Dakota	R193 2016-2017	30-Apr-2017
Oklahoma	2016-122	31-Aug-2017
Texas	TX104704231-16-17	30-Apr-2017

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 07-Sep-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16090047

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS16090047-01	MW-7 Sample 1	Login	9/1/2016 4:29:51 PM	JRM	19A
HS16090047-02	MW-7 Sample 2	Login	9/1/2016 4:29:51 PM	JRM	19A
HS16090047-03	MW-7 Sample 3	Login	9/1/2016 4:29:51 PM	JRM	19A
HS16090047-04	MW-7 Sample 4	Login	9/1/2016 4:29:51 PM	JRM	19A
HS16090047-05	MW-7 Sample 5	Login	9/1/2016 4:29:51 PM	JRM	19A
HS16090047-06	MW-7 Sample 6	Login	9/1/2016 4:29:51 PM	JRM	19A

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 07-Sep-16

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **01-Sep-2016 08:35**

Work Order: HS16090047 Received by: **Jared R. Makan**

Checklist completed by: *Jared R. Makan* eSignature 1-Sep-2016 Date Reviewed by: *Dane J. Wacasey* eSignature 2-Sep-2016 Date

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.4c/2.1c UC/C	IR10	
Cooler(s)/Kit(s):	25677		
Date/Time sample(s) sent to storage:	09/01/16 16:45		
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:

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

ALS Environmental

Chain of Custody Form

Page 1 of 1

COC ID: 151928

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	4502201559 ENV749-40	Project Name	55627DM GSHI PXP Hill E.C. Federal	A	300_W (300 Chloride)
Work Order		Project Number		B	
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc. c/o GHD	C	
Send Report To	Angela Bown	Invoice Attn	Accounts Payable	D	
Address	PO Box 2148	Address	5005 LBJ Fwy. #300	E	
				F	
City/State/Zip	Houston, TX 77252-2148	City/State/Zip	Dallas, TX 75244	G	
Phone		Phone	(972) 687-7500	H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

HS16090047

Glenn Springs Holdings, Inc.

55627DM GSHI PXP Hill E.C. Federal #7 TB

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-7 Sample 1	8/18/16	12:20	W	8	1	X										
2	MW-7 Sample 2	8/18/16	13:15	W	8	1	X										
3	MW-7 Sample 3	8/18/16	15:05	W	8	1	X										
4	MW-7 Sample 4	8/18/16	15:55	W	8	1	X										
5	MW-7 Sample 5	8/18/16	16:55	W	8	1	X										
6	MW-7 Sample 6	8/18/16	17:55	W	8	1	X										
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Bill Smith

Shipment Method: FedEx

Required Turnaround Time: (Check Box) TAT: 10 days Other:

Results Due Date:

Relinquished by: Todd Wells Date: 8/31/16 Time: 1430

Relinquished by: Date: Time:

Received by:

Received by (Laboratory): JM 09/01/16 08:35

Logged by (Laboratory): Date: Time:

Checked by (Laboratory):

Notes: [GSHI PXP Hill EC Federal 7 TB]

Cooler ID	Cooler Temp.
25677	1.4
	IR 10
	CF 0.7

QC Package: (Check One Box Below)

QC Level: STD

Other:

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

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

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

25677

CUSTODY SEAL

Date: 8/31/16 Time: 1430
Name: Todd Wells
Company: TT

Seal Broken By: SM
Date: 09/01/16

25677 SEP 01 2016

FedEx
TRK# 6786 7199 8500
THU – 01 SEP 10:30A
PRIORITY OVERNIGHT

AB SGRA 25677 77099 TX-US IAH

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

October 17, 2016

Angela Bown
Glenn Springs Holdings, Inc.
PO Box 2148

Houston, TX 77252-2148

Work Order: **HS16100503**

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

Dear Angela,

ALS Environmental received 7 sample(s) on Oct 12, 2016 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: Jumoke.Lawal
Dane J. Wacasey

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 17-Oct-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16100503

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS16100503-01	MW-7 Sample 1	Water		30-Sep-2016 10:00	12-Oct-2016 08:40	☐
HS16100503-02	MW-7 Sample 2	Water		30-Sep-2016 11:00	12-Oct-2016 08:40	☐
HS16100503-03	MW-7 Sample 3	Water		30-Sep-2016 12:00	12-Oct-2016 08:40	☐
HS16100503-04	MW-7 Sample 4	Water		30-Sep-2016 13:00	12-Oct-2016 08:40	☐
HS16100503-05	MW-7 Sample 5	Water		30-Sep-2016 14:00	12-Oct-2016 08:40	☐
HS16100503-06	MW-7 Sample 6	Water		30-Sep-2016 15:00	12-Oct-2016 08:40	☐
HS16100503-07	DUP	Water		30-Sep-2016 00:00	12-Oct-2016 08:40	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 17-Oct-16

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16100503

WetChemistry by Method E300

Batch ID: R283039

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

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ALS Group USA, Corp Date: 17-Oct-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16100503
Sample ID: MW-7 Sample 1
Lab ID:HS16100503-01
Collection Date: 30-Sep-2016 10:00
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**933**		**10.0**	**25.0**	**mg/L**	50	14-Oct-2016 15:27

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 17-Oct-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16100503
Sample ID:	MW-7 Sample 2	Lab ID:HS16100503-02
Collection Date:	30-Sep-2016 11:00	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**864**		**10.0**	**25.0**	**mg/L**	50	14-Oct-2016 15:41

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 17-Oct-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16100503
Sample ID: MW-7 Sample 3
Lab ID:HS16100503-03
Collection Date: 30-Sep-2016 12:00
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**798**		**10.0**	**25.0**	**mg/L**	50	14-Oct-2016 15:56

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 17-Oct-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16100503
Sample ID: MW-7 Sample 4
Lab ID:HS16100503-04
Collection Date: 30-Sep-2016 13:00
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**733**		**10.0**	**25.0**	**mg/L**	50	14-Oct-2016 16:10

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 17-Oct-16

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16100503
Sample ID: MW-7 Sample 5
Lab ID:HS16100503-05
Collection Date: 30-Sep-2016 14:00
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**711**		**10.0**	**25.0**	**mg/L**	50	14-Oct-2016 16:25

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 17-Oct-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16100503
Sample ID:	MW-7 Sample 6	Lab ID:HS16100503-06
Collection Date:	30-Sep-2016 15:00	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**706**		**10.0**	**25.0**	**mg/L**	50	14-Oct-2016 16:39

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 17-Oct-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16100503
Sample ID:	DUP	Lab ID:HS16100503-07
Collection Date:	30-Sep-2016 00:00	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**688**		**10.0**	**25.0**	**mg/L**	50	14-Oct-2016 16:54

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

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ALS Group USA, Corp Date: 17-Oct-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16100503

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R283039	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS16100503-01	MW-7 Sample 1	30 Sep 2016 10:00			14 Oct 2016 15:27	50
HS16100503-02	MW-7 Sample 2	30 Sep 2016 11:00			14 Oct 2016 15:41	50
HS16100503-03	MW-7 Sample 3	30 Sep 2016 12:00			14 Oct 2016 15:56	50
HS16100503-04	MW-7 Sample 4	30 Sep 2016 13:00			14 Oct 2016 16:10	50
HS16100503-05	MW-7 Sample 5	30 Sep 2016 14:00			14 Oct 2016 16:25	50
HS16100503-06	MW-7 Sample 6	30 Sep 2016 15:00			14 Oct 2016 16:39	50
HS16100503-07	DUP	30 Sep 2016 00:00			14 Oct 2016 16:54	50

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 17-Oct-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16100503

QC BATCH REPORT

Batch ID: R283039 **Instrument: ICS2100** **Method: E300**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW1-101416** Units: **mg/L** Analysis Date: **14-Oct-2016 12:07**										
Client ID: Run ID: **ICS2100_283039** SeqNo: **3858878** PrepDate: DF: **1**										
Chloride	U	0.500								
LCS Sample ID: **WLCSW1-101416** Units: **mg/L** Analysis Date: **14-Oct-2016 13:04**										
Client ID: Run ID: **ICS2100_283039** SeqNo: **3858880** PrepDate: DF: **1**										
Chloride	19.24	0.500	20	0	96.2	90 - 110				
LCSD Sample ID: **WLCSDW1-101416** Units: **mg/L** Analysis Date: **14-Oct-2016 12:37**										
Client ID: Run ID: **ICS2100_283039** SeqNo: **3858879** PrepDate: DF: **1**										
Chloride	19.58	0.500	20	0	97.9	90 - 110	19.24	1.75	20	
MS Sample ID: **HS16100573-02MS** Units: **mg/L** Analysis Date: **14-Oct-2016 19:19**										
Client ID: Run ID: **ICS2100_283039** SeqNo: **3858897** PrepDate: DF: **1**										
Chloride	62.03	0.500	10	53.58	84.6	80 - 120				O
MS Sample ID: **HS16100534-01MS** Units: **mg/L** Analysis Date: **14-Oct-2016 17:52**										
Client ID: Run ID: **ICS2100_283039** SeqNo: **3858891** PrepDate: DF: **40**										
Chloride	851.8	20.0	400	453	99.7	80 - 120				
MSD Sample ID: **HS16100573-02MSD** Units: **mg/L** Analysis Date: **14-Oct-2016 19:34**										
Client ID: Run ID: **ICS2100_283039** SeqNo: **3858898** PrepDate: DF: **1**										
Chloride	62.74	0.500	10	53.58	91.6	80 - 120	62.03	1.13	20	O

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

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 17-Oct-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16100503

QC BATCH REPORT

Batch ID: R283039 **Instrument: ICS2100** **Method: E300**

MSD Sample ID: **HS16100534-01MSD** Units: **mg/L** Analysis Date: **14-Oct-2016 18:07**
Client ID: Run ID: **ICS2100_283039** SeqNo: **3858892** PrepDate: DF: **40**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	829.4	20.0	400	453	94.1	80 - 120	851.8	2.67	20	

The following samples were analyzed in this batch: HS16100503-01 HS16100503-02 HS16100503-03 HS16100503-04 HS16100503-05 HS16100503-06 HS16100503-07

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

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ALS Group USA, Corp Date: 17-Oct-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS16100503**

QUALIFIERS, ACRONYMS, UNITS

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

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

Unit Reported	Description
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 17-Oct-16

CERTIFICATIONS,ACCREDITATIONS & LICENSES

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 17-Oct-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16100503

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS16100503-01	MW-7 Sample 1	Login	10/12/2016 4:01:04 PM	RPG	13B
HS16100503-02	MW-7 Sample 2	Login	10/12/2016 4:01:04 PM	RPG	13B
HS16100503-03	MW-7 Sample 3	Login	10/12/2016 4:01:04 PM	RPG	13B
HS16100503-04	MW-7 Sample 4	Login	10/12/2016 4:01:04 PM	RPG	13B
HS16100503-05	MW-7 Sample 5	Login	10/12/2016 4:01:04 PM	RPG	13B
HS16100503-06	MW-7 Sample 6	Login	10/12/2016 4:01:04 PM	RPG	13B
HS16100503-07	DUP	Login	10/12/2016 4:01:04 PM	RPG	13B

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 17-Oct-16

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **12-Oct-2016 08:40**

Work Order: HS16100503 Received by: **Raegen Giga**

Checklist completed by: *Raegen Giga* eSignature 12-Oct-2016 Date Reviewed by: *Dane J. Wacasey* eSignature 14-Oct-2016 Date

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.4c/3.1c uc/c	IR 11	
Cooler(s)/Kit(s):	23579		
Date/Time sample(s) sent to storage:	10/12/2016 16:05		
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:

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ALS Environmental

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

Chain of Custody Form

Page 1 of 1

COC ID: 148630

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	4502201559 ENV749-40	Project Name	55627DM GSHI PXP Hill E.C. Federal	A	300_W (300 Chloride)
Work Order		Project Number		B	
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.	C	
Send Report To	Angela Bown	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		e-Mail Address		J	

HS16100503

Glenn Springs Holdings, Inc.

55627DM GSHI PXP Hill E.C. Federal #7 TB

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-7 Sample 1	9-30-16	10:00	Water	8	1	X										
2	MW-7 Sample 2		11:00				X										
3	MW-7 Sample 3		12:00				X										
4	MW-7 Sample 4		13:00				X										
5	MW-7 Sample 5		14:00				X										
6	MW-7 Sample 6		15:00				X										
7	DUP		—				X										
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Mat McDaniel

Shipment Method: FedEx

Required Turnaround Time: (Check Box) TAT 10 days Other

Results Due Date:

Relinquished by: Todd Wells Date: 10-11-16 Time: 15:30

Received by:

Relinquished by: Date: Time:

Received by (Laboratory): R Cisa 10/12/16 08:40.

Logged by (Laboratory): Date: Time:

Checked by (Laboratory):

Notes: [GSHI PXP Hill EC Federal 7 TB]

Cooler ID	Cooler Temp.
23579	UC 2-4
IR 11	
CF+0.7	

QC Package: (Check One Box Below)

QC Level STD

Other:

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

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

23579

CUSTODY SEAL

Date: 10-11-16 Time: 15:30

Name: Todd Wells

Company:

Seal Broken By: SM

Date: 10/12/16

23579 OCT 12 2016

FedEx
TRK# 0221 6786 7201 1393

WED – 12 OCT 10:30A
PRIORITY OVERNIGHT

AB SGRA 23579

77099
TX-US IAH

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

November 07, 2016

Angela Bown
Glenn Springs Holdings, Inc.
PO Box 2148

Houston, TX 77252-2148

Work Order: **HS16110016**

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

Dear Angela,

ALS Environmental received 6 sample(s) on Nov 01, 2016 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: Jumoke.Lawal
Dane J. Wacasey

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ALS Group USA, Corp Date: 07-Nov-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal
Work Order: HS16110016

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS16110016-01	MW-7 Initial	Water		28-Oct-2016 11:35	01-Nov-2016 08:45	☐
HS16110016-02	MW-7 #1	Water		28-Oct-2016 12:15	01-Nov-2016 08:45	☐
HS16110016-03	MW-7 #2	Water		28-Oct-2016 13:10	01-Nov-2016 08:45	☐
HS16110016-04	MW-7 #3	Water		28-Oct-2016 14:02	01-Nov-2016 08:45	☐
HS16110016-05	MW-7 #4	Water		28-Oct-2016 14:45	01-Nov-2016 08:45	☐
HS16110016-06	MW-7 #5	Water		28-Oct-2016 15:45	01-Nov-2016 08:45	☐

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ALS Group USA, Corp Date: 07-Nov-16

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal
Work Order: HS16110016

WetChemistry by Method E300

Batch ID: R284278

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

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ALS Group USA, Corp Date: 07-Nov-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**	
Project:	55627DM GSHI PXP Hill E.C. Federal	WorkOrder:HS16110016	
Sample ID:	MW-7 Initial	Lab ID:HS16110016-01	
Collection Date:	28-Oct-2016 11:35	Matrix:Water	

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**924**		**10.0**	**25.0**	**mg/L**	50	05-Nov-2016 19:49

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

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ALS Group USA, Corp Date: 07-Nov-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**	
Project:	55627DM GSHI PXP Hill E.C. Federal	WorkOrder:HS16110016	
Sample ID:	MW-7 #1	Lab ID:HS16110016-02	
Collection Date:	28-Oct-2016 12:15	Matrix:Water	

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**843**		**10.0**	**25.0**	**mg/L**	50	05-Nov-2016 20:11

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

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ALS Group USA, Corp Date: 07-Nov-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**	
Project:	55627DM GSHI PXP Hill E.C. Federal	WorkOrder:	HS16110016
Sample ID:	MW-7 #2	Lab ID:	HS16110016-03
Collection Date:	28-Oct-2016 13:10	Matrix:	Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**729**		**10.0**	**25.0**	**mg/L**	50	05-Nov-2016 21:16

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

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ALS Group USA, Corp Date: 07-Nov-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**	
Project:	55627DM GSHI PXP Hill E.C. Federal	WorkOrder:	HS16110016
Sample ID:	MW-7 #3	Lab ID:	HS16110016-04
Collection Date:	28-Oct-2016 14:02	Matrix:	Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**656**		**10.0**	**25.0**	**mg/L**	50	05-Nov-2016 21:38

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

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 07-Nov-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal
Sample ID: MW-7 #4
Collection Date: 28-Oct-2016 14:45

ANALYTICAL REPORT
WorkOrder:HS16110016
Lab ID:HS16110016-05
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**668**		**10.0**	**25.0**	**mg/L**	50	05-Nov-2016 22:00

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 07-Nov-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal
Sample ID: MW-7 #5
Collection Date: 28-Oct-2016 15:45

ANALYTICAL REPORT
WorkOrder:HS16110016
Lab ID:HS16110016-06
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**636**		**10.0**	**25.0**	**mg/L**	50	05-Nov-2016 22:21

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 07-Nov-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal
WorkOrder: HS16110016

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R284278	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS16110016-01	MW-7 Initial	28 Oct 2016 11:35			05 Nov 2016 19:49	50
HS16110016-02	MW-7 #1	28 Oct 2016 12:15			05 Nov 2016 20:11	50
HS16110016-03	MW-7 #2	28 Oct 2016 13:10			05 Nov 2016 21:16	50
HS16110016-04	MW-7 #3	28 Oct 2016 14:02			05 Nov 2016 21:38	50
HS16110016-05	MW-7 #4	28 Oct 2016 14:45			05 Nov 2016 22:00	50
HS16110016-06	MW-7 #5	28 Oct 2016 15:45			05 Nov 2016 22:21	50

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ALS Group USA, Corp Date: 07-Nov-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal
WorkOrder: HS16110016

QC BATCH REPORT

Batch ID: R284278 **Instrument: ICS3K2** **Method: E300**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW2-110516** Units: **mg/L** Analysis Date: **05-Nov-2016 14:58** Client ID: Run ID: **ICS3K2_284278** SeqNo: **3882354** PrepDate: DF: **1**										
Chloride	U	0.500								
LCS Sample ID: **WLCSW2-110516** Units: **mg/L** Analysis Date: **05-Nov-2016 15:20** Client ID: Run ID: **ICS3K2_284278** SeqNo: **3882355** PrepDate: DF: **1**										
Chloride	19.42	0.500	20	0	97.1	90 - 110				
LCSD Sample ID: **WLCSDW2-110516** Units: **mg/L** Analysis Date: **05-Nov-2016 15:42** Client ID: Run ID: **ICS3K2_284278** SeqNo: **3882356** PrepDate: DF: **1**										
Chloride	19.37	0.500	20	0	96.8	90 - 110	19.42	0.273	20	
MS Sample ID: **HS16110190-01MS** Units: **mg/L** Analysis Date: **05-Nov-2016 17:17** Client ID: Run ID: **ICS3K2_284278** SeqNo: **3882358** PrepDate: DF: **1**										
Chloride	23.09	0.500	10	13.5	96.0	80 - 120				
MS Sample ID: **HS16110016-02MS** Units: **mg/L** Analysis Date: **05-Nov-2016 20:33** Client ID: **MW-7 #1** Run ID: **ICS3K2_284278** SeqNo: **3882367** PrepDate: DF: **50**										
Chloride	1311	25.0	500	843	93.6	80 - 120				
MSD Sample ID: **HS16110190-01MSD** Units: **mg/L** Analysis Date: **05-Nov-2016 17:39** Client ID: Run ID: **ICS3K2_284278** SeqNo: **3882359** PrepDate: DF: **1**										
Chloride	23	0.500	10	13.5	95.1	80 - 120	23.09	0.377	20	

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

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ALS Group USA, Corp Date: 07-Nov-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal
WorkOrder: HS16110016

QC BATCH REPORT

Batch ID: R284278 **Instrument: ICS3K2** **Method: E300**

MSD Sample ID: **HS16110016-02MSD** Units: **mg/L** Analysis Date: **05-Nov-2016 20:54**
Client ID: **MW-7 #1** Run ID: **ICS3K2_284278** SeqNo: **3882368** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1307	25.0	500	843	92.8	80 - 120	1311	0.298	20	

The following samples were analyzed in this batch: HS16110016-01 HS16110016-02 HS16110016-03 HS16110016-04 HS16110016-05 HS16110016-06

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

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ALS Group USA, Corp Date: 07-Nov-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal
WorkOrder: **HS16110016**

QUALIFIERS, ACRONYMS, UNITS

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

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

Unit Reported	Description
mg/L	Milligrams per Liter

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ALS Group USA, Corp Date: 07-Nov-16

CERTIFICATIONS,ACCREDITATIONS & LICENSES

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

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ALS Group USA, Corp Date: 07-Nov-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal
Work Order: HS16110016

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS16110016-01	MW-7 Initial	Login	11/1/2016 11:30:21 AM	JRM	19A
HS16110016-02	MW-7 #1	Login	11/1/2016 11:30:21 AM	JRM	19A
HS16110016-03	MW-7 #2	Login	11/1/2016 11:30:22 AM	JRM	19A
HS16110016-04	MW-7 #3	Login	11/1/2016 11:30:22 AM	JRM	19A
HS16110016-05	MW-7 #4	Login	11/1/2016 11:30:22 AM	JRM	19A
HS16110016-06	MW-7 #5	Login	11/1/2016 11:30:22 AM	JRM	19A

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ALS Group USA, Corp Date: 07-Nov-16

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **01-Nov-2016 08:45**

Work Order: HS16110016 Received by: **RPG**

Checklist completed by: *Jared R. Makan* eSignature 1-Nov-2016 Date Reviewed by: *Dane J. Wacasey* eSignature 1-Nov-2016 Date

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	0.8c/1.3c UC/C	IR5	
Cooler(s)/Kit(s):	5505		
Date/Time sample(s) sent to storage:	11/01/2016 11:40		
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: Collection time differs, sample MW-7 Initial: COC = 11:35, Sample container = 11:40. Logged per COC.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 369 Regarding:

Comments:

Corrective Action:

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Salt Lake City, UT +1 801 266 7700
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York, PA +1 717 505 5280

Chain of Custody Form

Page 1 of 1

COC ID: 148629

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	4502201559 ENV749-40	Project Name	55627DM GSHI PXP Hill E.C. Federal	A	300_W (300 Chloride)
Work Order		Project Number		B	
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.	C	
Send Report To	Angela Bown	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		e-Mail Address		J	

HS16110016

Glenn Springs Holdings, Inc.

55627DM GSHI PXP Hill E.C. Federal

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-7 Initial	10-28-16	1135	Water	8	1	X										
2	MW-7 #1	10-28-16	1215	Water	8	1	X										
3	MW-7 #2	10-28-16	~~1215~~ 1310	Water	8	1	X										
4	MW-7 #3	10-28-16	1402	Water	8	1	X										
5	MW-7 #4	10-28-16	1445	Water	8	1	X										
6	MW-8 #5	10-28-16	1545	Water	8	1	X										
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Bill D. Smith Bill D. Smith

Shipment Method: Fed Ex

Required Turnaround Time: (Check Box) TAT: 10 days Other:

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
Bill D. Smith	10-31-16	1530	
Relinquished by:	Date:	Time:	Received by (Laboratory):
			RG 11/01/16 08:45
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: [GSHI PXP Hill EC Federal 7 TB]

Cooler ID	Cooler Temp.
5505	0.8
	IRS
	CF0.5

QC Package: (Check One Box Below)

QC Level: STD

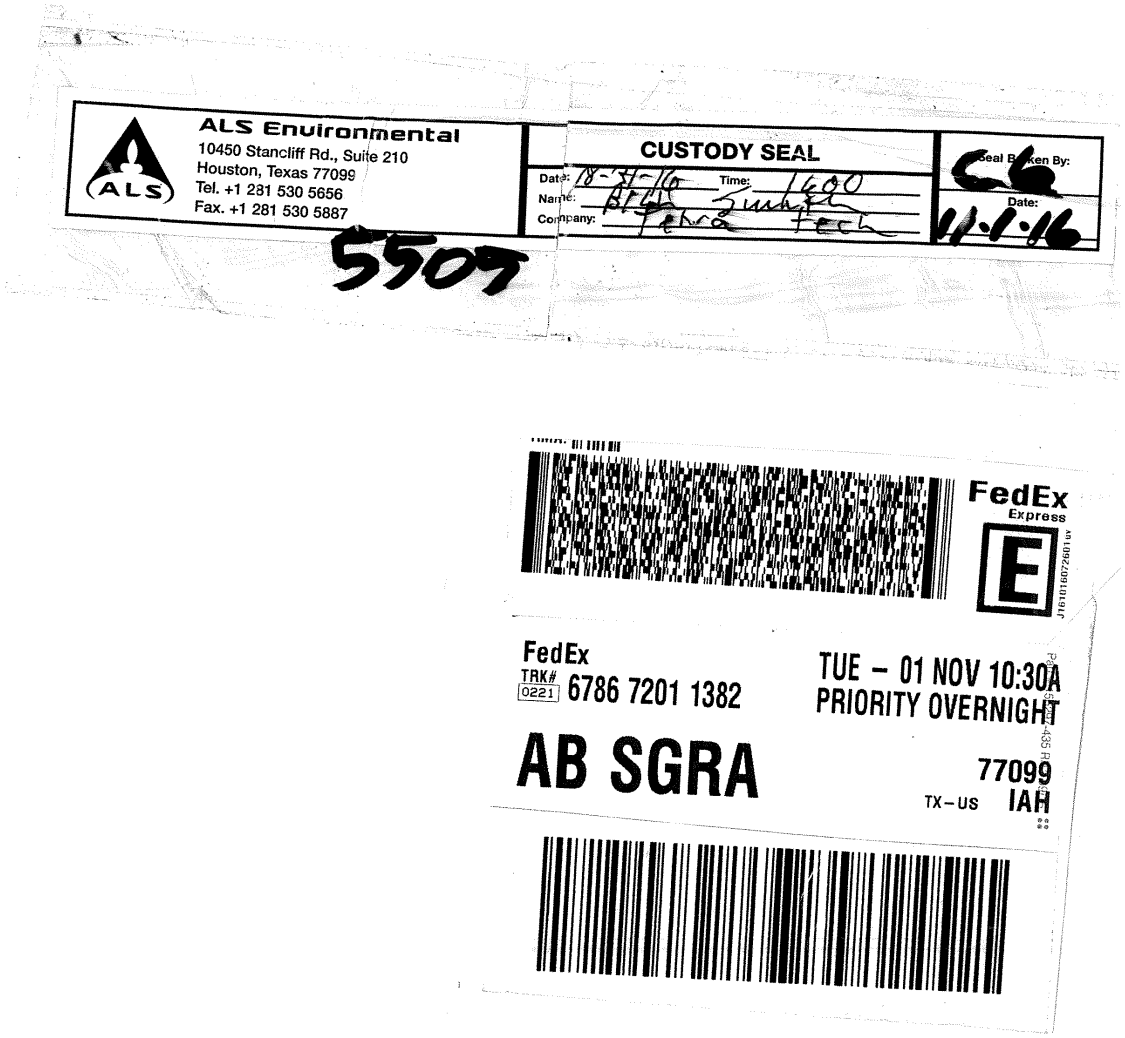
Other:

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

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

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ALS Environmental
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Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL

Date: 10-31-16 Time: 1600
Name: [illegible] Sunship
Company: Petra Tech

Seal Broken By:

Date: 11.1.16

5507

FedEx Express

FedEx
TRK# 0221 6786 7201 1382

TUE – 01 NOV 10:30A
PRIORITY OVERNIGHT

AB SGRA

77099
TX-US IAH

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

December 01, 2016

Angela Bown
Glenn Springs Holdings, Inc.
PO Box 2148

Houston, TX 77252-2148

Work Order: **HS16110966**

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

Dear Angela,

ALS Environmental received 6 sample(s) on Nov 19, 2016 for the analysis presented in the following report.

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

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

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

Sincerely,

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Dane J. Wacasey

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ALS Group USA, Corp Date: 01-Dec-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16110966

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS16110966-01	MW-7 Initial	Water		17-Nov-2016 11:15	19-Nov-2016 11:50	☐
HS16110966-02	MW-7 #1	Water		17-Nov-2016 12:15	19-Nov-2016 11:50	☐
HS16110966-03	MW-7 #2	Water		17-Nov-2016 13:15	19-Nov-2016 11:50	☐
HS16110966-04	MW-7 #3	Water		17-Nov-2016 14:15	19-Nov-2016 11:50	☐
HS16110966-05	MW-7 #4	Water		17-Nov-2016 15:15	19-Nov-2016 11:50	☐
HS16110966-06	MW-7 #5	Water		17-Nov-2016 16:15	19-Nov-2016 11:50	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 01-Dec-16

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16110966

WetChemistry by Method E300

Batch ID: R285685

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

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ALS Group USA, Corp Date: 01-Dec-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16110966
Sample ID:	MW-7 Initial	Lab ID:HS16110966-01
Collection Date:	17-Nov-2016 11:15	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**907**		**10.0**	**25.0**	**mg/L**	50	29-Nov-2016 12:52

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

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ALS Group USA, Corp Date: 01-Dec-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**	
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16110966	
Sample ID:	MW-7 #1	Lab ID:HS16110966-02	
Collection Date:	17-Nov-2016 12:15	Matrix:Water	

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**767**		**10.0**	**25.0**	**mg/L**	50	29-Nov-2016 13:35

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 01-Dec-16

Client: Glenn Springs Holdings, Inc. **ANALYTICAL REPORT**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB WorkOrder:HS16110966
Sample ID: MW-7 #2 Lab ID:HS16110966-03
Collection Date: 17-Nov-2016 13:15 Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**700**		**10.0**	**25.0**	**mg/L**	50	29-Nov-2016 13:50

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 01-Dec-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**	
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16110966	
Sample ID:	MW-7 #3	Lab ID:HS16110966-04	
Collection Date:	17-Nov-2016 14:15	Matrix:Water	

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**668**		**10.0**	**25.0**	**mg/L**	50	29-Nov-2016 14:05

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 01-Dec-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16110966
Sample ID:	MW-7 #4	Lab ID:HS16110966-05
Collection Date:	17-Nov-2016 15:15	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**641**		**10.0**	**25.0**	**mg/L**	50	29-Nov-2016 14:19

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 01-Dec-16

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16110966
Sample ID:	MW-7 #5	Lab ID:HS16110966-06
Collection Date:	17-Nov-2016 16:15	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**607**		**10.0**	**25.0**	**mg/L**	50	29-Nov-2016 14:34

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 01-Dec-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16110966

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R285685	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS16110966-01	MW-7 Initial	17 Nov 2016 11:15			29 Nov 2016 12:52	50
HS16110966-02	MW-7 #1	17 Nov 2016 12:15			29 Nov 2016 13:35	50
HS16110966-03	MW-7 #2	17 Nov 2016 13:15			29 Nov 2016 13:50	50
HS16110966-04	MW-7 #3	17 Nov 2016 14:15			29 Nov 2016 14:05	50
HS16110966-05	MW-7 #4	17 Nov 2016 15:15			29 Nov 2016 14:19	50
HS16110966-06	MW-7 #5	17 Nov 2016 16:15			29 Nov 2016 14:34	50

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ALS Group USA, Corp Date: 01-Dec-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16110966

QC BATCH REPORT

Batch ID: R285685 **Instrument: ICS2100** **Method: E300**

MBLK Sample ID: **WBLKW1-112916** Units: **mg/L** Analysis Date: **29-Nov-2016 08:05**
Client ID: Run ID: **ICS2100_285685** SeqNo: **3910373** 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: **WLCSW1-112916** Units: **mg/L** Analysis Date: **29-Nov-2016 08:20**
Client ID: Run ID: **ICS2100_285685** SeqNo: **3910374** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.2	0.500	20	0	96.0	90 - 110				

LCSD Sample ID: **WLCSDW1-112916** Units: **mg/L** Analysis Date: **29-Nov-2016 08:34**
Client ID: Run ID: **ICS2100_285685** SeqNo: **3910375** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.61	0.500	20	0	98.0	90 - 110	19.2	2.09	20	

MS Sample ID: **HS16110968-01MS** Units: **mg/L** Analysis Date: **29-Nov-2016 15:46**
Client ID: Run ID: **ICS2100_285685** SeqNo: **3910394** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	146.7	2.50	50	97.74	97.9	80 - 120				

MS Sample ID: **HS16110942-01MS** Units: **mg/L** Analysis Date: **29-Nov-2016 11:39**
Client ID: Run ID: **ICS2100_285685** SeqNo: **3910377** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	44.3	0.500	10	33.88	104	80 - 120				

MSD Sample ID: **HS16110968-01MSD** Units: **mg/L** Analysis Date: **29-Nov-2016 16:30**
Client ID: Run ID: **ICS2100_285685** SeqNo: **3910397** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	141.4	2.50	50	97.74	87.3	80 - 120	146.7	3.66	20	

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

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ALS Group USA, Corp Date: 01-Dec-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16110966

QC BATCH REPORT

Batch ID: R285685 **Instrument: ICS2100** **Method: E300**

MSD Sample ID: **HS16110942-01MSD** Units: **mg/L** Analysis Date: **29-Nov-2016 11:54**
Client ID: Run ID: **ICS2100_285685** SeqNo: **3910378** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	44.19	0.500	10	33.88	103	80 - 120	44.3	0.255	20	

The following samples were analyzed in this batch: HS16110966-01 HS16110966-02 HS16110966-03 HS16110966-04 HS16110966-05 HS16110966-06

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

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ALS Group USA, Corp Date: 01-Dec-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS16110966**

QUALIFIERS, ACRONYMS, UNITS

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

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

Unit Reported	Description
mg/L	Milligrams per Liter

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ALS Group USA, Corp Date: 01-Dec-16

CERTIFICATIONS,ACCREDITATIONS & LICENSES

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

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ALS Group USA, Corp Date: 01-Dec-16

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16110966

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS16110966-01	MW-7 Initial	Login	11/21/2016 9:45:34 AM	PMG	5B
HS16110966-02	MW-7 #1	Login	11/21/2016 9:45:34 AM	PMG	5B
HS16110966-03	MW-7 #2	Login	11/21/2016 9:45:34 AM	PMG	5B
HS16110966-04	MW-7 #3	Login	11/21/2016 9:45:34 AM	PMG	5B
HS16110966-05	MW-7 #4	Login	11/21/2016 9:45:34 AM	PMG	5B
HS16110966-06	MW-7 #5	Login	11/21/2016 9:45:34 AM	PMG	5B

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ALS Group USA, Corp Date: 01-Dec-16

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **19-Nov-2016 11:50**

Work Order: HS16110966 Received by: **Jared R. Makan**

Checklist completed by: *Paresh M. Giga* eSignature 21-Nov-2016 Date Reviewed by: *Dane J. Wacasey* eSignature 23-Nov-2016 Date

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.0c/1.5c U/C	IR5	
Cooler(s)/Kit(s):	5681		
Date/Time sample(s) sent to storage:	11/21/16 09:55		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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

Chain of Custody Form

Page 1 of 1

COC ID: 153030

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	4502201559 ENV749-40	Project Name	55627DM GSHI PXP Hill E.C. Federal	A	300_W (300 Chloride)
Work Order		Project Number		B	
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.	C	
Send Report To	Angela Bown	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		e-Mail Address		J	

HS16110966

Glenn Springs Holdings, Inc.

55627DM GSHI PXP Hill E.C. Federal #7 TB

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-7 Initial	11-17-16	1115	Water	8	1	X										
2	MW-7 #1	11-17-16	1215	water	8	1	X										
3	MW-7 #2	11-17-16	1315	water	8	1	X										
4	MW-7 #3	11-17-16	1415	water	8	1	X										
5	MW-7 #4	11-17-16	1515	water	8	1	X										
6	MW-7 #5	11-17-16	1615	water	8	1	X										
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Mike Carmona Mike Carmona

Shipment Method: Fed Ex

Required Turnaround Time: (Check Box) TAT: 10 days Other:

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
Mike Carmona	11-18-16	1110	
Relinquished by:	Date:	Time:	Received by (Laboratory):
			JM 11.19.16 11:50
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: [GSHI PXP Hill EC Federal 7 TB]

Cooler ID	Cooler Temp.
5681	0.6
	1.00
	*5
	c/f 0.3

QC Package: (Check One Box Below)

QC Level: STD

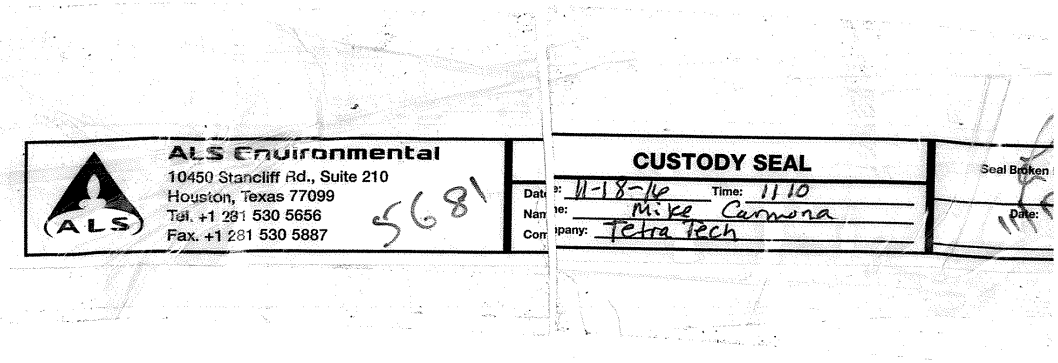
Other:

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

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

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

5681

CUSTODY SEAL

Date: 11-18-16 Time: 1110
Name: Mike Carmona
Company: Tetra Tech

Seal Broken
Date:

ORIGIN ID:SGRA (432) 682-4559
TODD WELLS
GSHI-TETRA TECH
4000 NORTH BIG SPRING STREET
STE 401
MIDLAND, TX 79705
UNITED STATES US

SHIP DATE: 14NOV16
ACTWGT: 35.00 LB MAN
CAD: 300130/CAFE3010
DIMS: 19x16x13 IN

TO SHIPPING DEPT
ALS LABORATORY GROUP
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099
(281) 530-5656
REF: GSHI PXP HILL EC FED. #7TB
RMA:

FedEx Express

FedEx
TRK# 0221 6786 7201 8700

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO SGRA

77099
TX-US IAH

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

January 06, 2017

Angela Bown
Glenn Springs Holdings, Inc.
PO Box 2148

Houston, TX 77252-2148

Work Order: **HS16121292**

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

Dear Angela,

ALS Environmental received 6 sample(s) on Dec 28, 2016 for the analysis presented in the following report.

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

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

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

Sincerely,

Generated By: Dayna.Fisher
Dane J. Wacasey

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ALS Group USA, Corp Date: 06-Jan-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16121292

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS16121292-01	Initial	Water		22-Dec-2016 10:30	28-Dec-2016 08:40	☐
HS16121292-02	MW-7 #1	Water		22-Dec-2016 11:30	28-Dec-2016 08:40	☐
HS16121292-03	MW-7 #2	Water		22-Dec-2016 12:00	28-Dec-2016 08:40	☐
HS16121292-04	MW-7 #3	Water		22-Dec-2016 12:50	28-Dec-2016 08:40	☐
HS16121292-05	MW-7 #4	Water		22-Dec-2016 13:33	28-Dec-2016 08:40	☐
HS16121292-06	MW-7 #5	Water		22-Dec-2016 14:00	28-Dec-2016 08:40	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 06-Jan-17

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS16121292

WetChemistry by Method E300

Batch ID: R287685

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 06-Jan-17

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**	
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16121292	
Sample ID:	Initial	Lab ID:HS16121292-01	
Collection Date:	22-Dec-2016 10:30	Matrix:Water	

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**1,010**		**10.0**	**25.0**	**mg/L**	50	05-Jan-2017 15:07

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 06-Jan-17

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**	
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16121292	
Sample ID:	MW-7 #1	Lab ID:HS16121292-02	
Collection Date:	22-Dec-2016 11:30	Matrix:Water	

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**826**		**10.0**	**25.0**	**mg/L**	50	05-Jan-2017 15:50

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

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 06-Jan-17

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS16121292
Sample ID: MW-7 #2
Lab ID:HS16121292-03
Collection Date: 22-Dec-2016 12:00
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**823**		**10.0**	**25.0**	**mg/L**	50	05-Jan-2017 16:34

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 06-Jan-17

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**	
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:	HS16121292
Sample ID:	MW-7 #3	Lab ID:	HS16121292-04
Collection Date:	22-Dec-2016 12:50	Matrix:	Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**676**		**10.0**	**25.0**	**mg/L**	50	05-Jan-2017 16:49

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

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ALS Group USA, Corp Date: 06-Jan-17

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16121292
Sample ID:	MW-7 #4	Lab ID:HS16121292-05
Collection Date:	22-Dec-2016 13:33	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**664**		**10.0**	**25.0**	**mg/L**	50	05-Jan-2017 17:03

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

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ALS Group USA, Corp Date: 06-Jan-17

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS16121292
Sample ID:	MW-7 #5	Lab ID:HS16121292-06
Collection Date:	22-Dec-2016 14:00	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**675**		**10.0**	**25.0**	**mg/L**	50	05-Jan-2017 17:18

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

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ALS Group USA, Corp Date: 06-Jan-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16121292

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R287685	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS16121292-01	Initial	22 Dec 2016 10:30			05 Jan 2017 15:07	50
HS16121292-02	MW-7 #1	22 Dec 2016 11:30			05 Jan 2017 15:50	50
HS16121292-03	MW-7 #2	22 Dec 2016 12:00			05 Jan 2017 16:34	50
HS16121292-04	MW-7 #3	22 Dec 2016 12:50			05 Jan 2017 16:49	50
HS16121292-05	MW-7 #4	22 Dec 2016 13:33			05 Jan 2017 17:03	50
HS16121292-06	MW-7 #5	22 Dec 2016 14:00			05 Jan 2017 17:18	50

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ALS Group USA, Corp Date: 06-Jan-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16121292

QC BATCH REPORT

Batch ID: R287685 **Instrument: ICS2100** **Method: E300**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW1-010517** Units: **mg/L** Analysis Date: **05-Jan-2017 08:15**										
Client ID: Run ID: **ICS2100_287685** SeqNo: **3953655** PrepDate: DF: **1**										
Chloride	U	0.500								
LCS Sample ID: **WLCSW1-010517** Units: **mg/L** Analysis Date: **05-Jan-2017 08:44**										
Client ID: Run ID: **ICS2100_287685** SeqNo: **3953656** PrepDate: DF: **1**										
Chloride	20.27	0.500	20	0	101	90 - 110				
LCSD Sample ID: **WLCSDW1-010517** Units: **mg/L** Analysis Date: **05-Jan-2017 10:48**										
Client ID: Run ID: **ICS2100_287685** SeqNo: **3953657** PrepDate: DF: **1**										
Chloride	19.71	0.500	20	0	98.5	90 - 110	20.27	2.79	20	
MS Sample ID: **HS16121413-09MS** Units: **mg/L** Analysis Date: **05-Jan-2017 14:09**										
Client ID: Run ID: **ICS2100_287685** SeqNo: **3953669** PrepDate: DF: **1**										
Chloride	15.38	0.500	10	4.745	106	80 - 120				
MS Sample ID: **HS16121292-01MS** Units: **mg/L** Analysis Date: **05-Jan-2017 15:21**										
Client ID: **Initial** Run ID: **ICS2100_287685** SeqNo: **3953674** PrepDate: DF: **50**										
Chloride	1459	25.0	500	1012	89.3	80 - 120				
MSD Sample ID: **HS16121413-09MSD** Units: **mg/L** Analysis Date: **05-Jan-2017 14:23**										
Client ID: Run ID: **ICS2100_287685** SeqNo: **3953670** PrepDate: DF: **1**										
Chloride	15.95	0.500	10	4.745	112	80 - 120	15.38	3.68	20	

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

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ALS Group USA, Corp Date: 06-Jan-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS16121292

QC BATCH REPORT

Batch ID: R287685 **Instrument: ICS2100** **Method: E300**

MSD Sample ID: **HS16121292-01MSD** Units: **mg/L** Analysis Date: **05-Jan-2017 15:36**
Client ID: **Initial** Run ID: **ICS2100_287685** SeqNo: **3953675** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1531	25.0	500	1012	104	80 - 120	1459	4.85	20	

The following samples were analyzed in this batch: HS16121292-01 HS16121292-02 HS16121292-03 HS16121292-04 HS16121292-05 HS16121292-06

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

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ALS Group USA, Corp Date: 06-Jan-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS16121292**

QUALIFIERS, ACRONYMS, UNITS

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

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

Unit Reported	Description
mg/L	Milligrams per Liter

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ALS Group USA, Corp Date: 06-Jan-17

CERTIFICATIONS,ACCREDITATIONS & LICENSES

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

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ALS Group USA, Corp Date: 06-Jan-17

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **28-Dec-2016 08:40**

Work Order: HS16121292 Received by: **JRM**

Checklist completed by: *Cesar A. Lira* eSignature 28-Dec-2016 Date

Reviewed by: *Dane J. Wacasey* eSignature 28-Dec-2016 Date

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.5c/1.9c uc/c	IR#11	
Cooler(s)/Kit(s):	25715		
Date/Time sample(s) sent to storage:	12/28/2016 11:30am		
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:

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

Chain of Custody Form

Page 1 of 1

COC ID: 153785

HS16121292

Glenn Springs Holdings, Inc.

55627DM GSHI PXP Hill E.C. Federal #7 TB5

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	4502201559 ENV749-40	Project Name	55627DM GSHI PXP Hill E.C. Federal	A	300_W (300 Chloride)
Work Order		Project Number		B	
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.	C	
Send Report To	Angela Bown	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		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	Initial	12-22-16	1030	Water		1	✓										
2	MW-7 #1	12-22-16	1130	Water		1	✓										
3	MW-7 #2	12-22-16	1200	Water		1	✓										
4	MW-7 #3	12-22-16	1250	Water		1	✓										
5	MW-7 #4	12-22-16	1333	Water		1	✓										
6	MW-7 #5	12-22-16	1400	Water		1	✓										
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Bill D. Smith Bill D. Smith

Shipment Method:

Required Turnaround Time: (Check Box) Other:

Results Due Date:

	Date:	Time:	
Relinquished by: Bill D. Smith	12-27-16	1000	Received by:
Relinquished by:	12/28/16	08:40	Received by (Laboratory): S. MAZANN
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: [GSHI PXP Hill EC Federal 7 TB]

Cooler ID	Cooler Temp.
25715	1.6
	1K11
	CF0.3

QC Package: (Check One Box Below) Other:

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

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

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

25715

CUSTODY SEAL

Date: 12-27-16 Time: 1000

Name: Tetra Tech

Company: Bill Sewell

Seal Broken By: SM

Date: 12/28/16

25715 DEC 2 8 2016

FedEx
TRK# 0221 6786 7202 5735

WED – 28 DEC 10:30A
PRIORITY OVERNIGHT

AB SGRA 25715

77099
TX-US IAH

#2626372 12/27 544J1/D42F/14E8

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

June 19, 2017

Angela Bown
Glenn Springs Holdings, Inc.
PO Box 2148

Houston, TX 77252-2148

Work Order: **HS17060586**

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

Dear Angela,

ALS Environmental received 7 sample(s) on Jun 09, 2017 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

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ALS Group USA, Corp Date: 19-Jun-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS17060586

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS17060586-01	MW-7 - 1	Water		07-Jun-2017 10:30	09-Jun-2017 08:20	☐
HS17060586-02	MW-7 - 2	Water		07-Jun-2017 11:30	09-Jun-2017 08:20	☐
HS17060586-03	MW-7 - 3	Water		07-Jun-2017 12:30	09-Jun-2017 08:20	☐
HS17060586-04	MW-7 - 4	Water		07-Jun-2017 13:30	09-Jun-2017 08:20	☐
HS17060586-05	MW-7 - 5	Water		07-Jun-2017 14:30	09-Jun-2017 08:20	☐
HS17060586-06	MW-7 - 6	Water		07-Jun-2017 15:30	09-Jun-2017 08:20	☐
HS17060586-07	MW-7 - DUP	Water		07-Jun-2017 00:00	09-Jun-2017 08:20	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Jun-17

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS17060586

WetChemistry by Method E300

Batch ID: R296608

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

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ALS Group USA, Corp Date: 19-Jun-17

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS17060586
Sample ID: MW-7 - 1
Lab ID:HS17060586-01
Collection Date: 07-Jun-2017 10:30
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**1,040**		**8.00**	**20.0**	**mg/L**	40	18-Jun-2017 20:31

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Jun-17

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS17060586
Sample ID:	MW-7 - 2	Lab ID:HS17060586-02
Collection Date:	07-Jun-2017 11:30	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**890**		**8.00**	**20.0**	**mg/L**	40	18-Jun-2017 20:45

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

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Jun-17

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS17060586
Sample ID: MW-7 - 3
Lab ID:HS17060586-03
Collection Date: 07-Jun-2017 12:30
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**876**		**8.00**	**20.0**	**mg/L**	40	18-Jun-2017 21:00

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Jun-17

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS17060586
Sample ID: MW-7 - 4
Lab ID:HS17060586-04
Collection Date: 07-Jun-2017 13:30
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**880**		**8.00**	**20.0**	**mg/L**	40	18-Jun-2017 21:14

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Jun-17

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS17060586
Sample ID:	MW-7 - 5	Lab ID:HS17060586-05
Collection Date:	07-Jun-2017 14:30	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**800**		**8.00**	**20.0**	**mg/L**	40	18-Jun-2017 21:29

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Jun-17

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS17060586
Sample ID:	MW-7 - 6	Lab ID:HS17060586-06
Collection Date:	07-Jun-2017 15:30	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**771**		**8.00**	**20.0**	**mg/L**	40	18-Jun-2017 21:43

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Jun-17

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS17060586
Sample ID: MW-7 - DUP
Lab ID:HS17060586-07
Collection Date: 07-Jun-2017 00:00
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**868**		**8.00**	**20.0**	**mg/L**	40	18-Jun-2017 21:58

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Jun-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS17060586

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R296608	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS17060586-01	MW-7 - 1	07 Jun 2017 10:30			18 Jun 2017 20:31	40
HS17060586-02	MW-7 - 2	07 Jun 2017 11:30			18 Jun 2017 20:45	40
HS17060586-03	MW-7 - 3	07 Jun 2017 12:30			18 Jun 2017 21:00	40
HS17060586-04	MW-7 - 4	07 Jun 2017 13:30			18 Jun 2017 21:14	40
HS17060586-05	MW-7 - 5	07 Jun 2017 14:30			18 Jun 2017 21:29	40
HS17060586-06	MW-7 - 6	07 Jun 2017 15:30			18 Jun 2017 21:43	40
HS17060586-07	MW-7 - DUP	07 Jun 2017 00:00			18 Jun 2017 21:58	40

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Jun-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS17060586

QC BATCH REPORT

Batch ID: R296608 **Instrument: ICS2100** **Method: E300**

MBLK Sample ID: **WBLKW1-061817** Units: **mg/L** Analysis Date: **18-Jun-2017 14:12**
Client ID: Run ID: **ICS2100_296608** SeqNo: **4127103** 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: **WLCSW1-061817** Units: **mg/L** Analysis Date: **18-Jun-2017 14:27**
Client ID: Run ID: **ICS2100_296608** SeqNo: **4127104** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.3	0.500	20	0	96.5	90 - 110				

LCSD Sample ID: **WLCSDW1-061817** Units: **mg/L** Analysis Date: **19-Jun-2017 10:15**
Client ID: Run ID: **ICS2100_296608** SeqNo: **4127139** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.96	0.500	20	0	99.8	90 - 110	19.3	3.4	20	

MS Sample ID: **HS17060578-01MS** Units: **mg/L** Analysis Date: **18-Jun-2017 18:05**
Client ID: Run ID: **ICS2100_296608** SeqNo: **4127109** PrepDate: DF: **400**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	12210	200	4000	8705	87.7	80 - 120				

MS Sample ID: **HS17060575-04MS** Units: **mg/L** Analysis Date: **18-Jun-2017 15:54**
Client ID: Run ID: **ICS2100_296608** SeqNo: **4127106** PrepDate: DF: **200**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	2089	100	2000	136.6	97.6	80 - 120				

MSD Sample ID: **HS17060578-01MSD** Units: **mg/L** Analysis Date: **18-Jun-2017 18:20**
Client ID: Run ID: **ICS2100_296608** SeqNo: **4127110** PrepDate: DF: **400**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	12540	200	4000	8705	95.9	80 - 120	12210	2.65	20	

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

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 19-Jun-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS17060586

QC BATCH REPORT

Batch ID: R296608 **Instrument: ICS2100** **Method: E300**

MSD Sample ID: **HS17060575-04MSD** Units: **mg/L** Analysis Date: **18-Jun-2017 16:09**
Client ID: Run ID: **ICS2100_296608** SeqNo: **4127107** PrepDate: DF: **200**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	2110	100	2000	136.6	98.7	80 - 120	2089	1.02	20	

The following samples were analyzed in this batch: HS17060586-01 HS17060586-02 HS17060586-03 HS17060586-04 HS17060586-05 HS17060586-06 HS17060586-07

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

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ALS Group USA, Corp Date: 19-Jun-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS17060586**

QUALIFIERS, ACRONYMS, UNITS

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

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

Unit Reported	Description
mg/L	Milligrams per Liter

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ALS Group USA, Corp Date: 19-Jun-17

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	17-027-0	27-Mar-2018
California	2919 2016-2018	31-Jul-2018
Illinois	004112	09-May-2018
Kansas	E-10352 2016-2017	31-Jul-2017
Kentucky	123043	30-Apr-2018
Louisiana	03087 2016-2017	30-Jun-2017
North Carolina	624-2017	31-Dec-2017
Oklahoma	2016-122	31-Aug-2017
Texas	T104704231-17-18	30-Apr-2018

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ALS Group USA, Corp Date: 19-Jun-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS17060586

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS17060586-01	MW-7 - 1	Login	6/10/2017 11:59:02 AM	KRM	WET164
HS17060586-02	MW-7 - 2	Login	6/10/2017 11:59:02 AM	KRM	WET164
HS17060586-03	MW-7 - 3	Login	6/10/2017 11:59:02 AM	KRM	WET164
HS17060586-04	MW-7 - 4	Login	6/10/2017 11:59:02 AM	KRM	WET164
HS17060586-05	MW-7 - 5	Login	6/10/2017 11:59:02 AM	KRM	WET164
HS17060586-06	MW-7 - 6	Login	6/10/2017 11:59:02 AM	KRM	WET164
HS17060586-07	MW-7 - DUP	Login	6/10/2017 11:59:02 AM	KRM	WET164

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ALS Group USA, Corp Date: 19-Jun-17

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **09-Jun-2017 08:20**

Work Order: HS17060586 Received by: **JRM**

Checklist completed by: *Krysta Mathis* eSignature 10-Jun-2017 Date

Reviewed by: *Dane J. Wacasey* eSignature 13-Jun-2017 Date

Matrices: **WATERS** Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	0.6/0.8 U/C	15	
Cooler(s)/Kit(s):	43095		
Date/Time sample(s) sent to storage:	06/09/2017 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:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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Cincinnati, OH +1 513 733 5336
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Houston, TX +1 281 530 5656
Spring City, PA +1 610 948 4903
South Charleston, WV +1 304 356 3168
Middletown, PA +1 717 944 5541
Salt Lake City, UT +1 801 266 7700
York, PA +1 717 505 5280

Chain of Custody Form

Page _____ of _____

COC ID: 163813

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	4502201559 ENV749-40	Project Name	55627DM GSHI PXP Hill E.C. Federal	A	300_W (300 Chloride)
Work Order		Project Number		B	
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.	C	
Send Report To	Angela Bown	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		e-Mail Address		J	

HS17060586

Glenn Springs Holdings, Inc.

55627DM GSHI PXP Hill E.C. Federal #7 TB

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-7 - 1	6-7-17	1030	Water	8	1	X										
2	MW-7 - 2	6-7-17	1130	Water	8	1	X										
3	MW-7 - 3	6-7-17	1230	Water	8	1	X										
4	MW-7 - 4	6-7-17	1330	Water	8	1	X										
5	MW-7 - 5	6-7-17	1430	Water	8	1	X										
6	MW-7 - 6	6-7-17	1530	Water	8	1	X										
7	MW-7 - DUP	6-7-17	NA	Water	8	1	X										
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Mathew McDaniel

Shipment Method: Fed Ex

Required Turnaround Time: (Check Box) TAT 10 days Other

Results Due Date:

Relinquished by: Date: 6-7-17 Time: 1500 Received by:

Relinquished by: Date: Time: Received by (Laboratory): 6/9/17. 08:20

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

Notes: [GSHI PXP Hill EC Federal 7 TB]

Cooler ID	Cooler Temp.
43095	0.6°

QC Package: (Check One Box Below)

QC Level STD

Other:

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

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

43095

CUSTODY SEAL

Date: 6-8-17 Time: 1500

Name: Mathew McGee

Company: ALS Tech

Seal Broken By: AM

Date: 06/09/17

43095 JUN 09 2017

FedEx
TRK# 0221 6786 7206 1284

FRI – 09 JUN 10:30T
PRIORITY OVERNIGHT

AB SGRA 43095

77099
TX-US IAH

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

December 08, 2017

Angela Bown
Glenn Springs Holdings, Inc.
PO Box 2148

Houston, TX 77252-2148

Work Order: **HS17111466**

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

Dear Angela,

ALS Environmental received 5 sample(s) on Nov 30, 2017 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

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ALS Group USA, Corp Date: 08-Dec-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS17111466

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS17111466-01	MW-7-1 Initial sample	Water		21-Nov-2017 11:30	30-Nov-2017 08:44	☐
HS17111466-02	MW-7-2 100gal	Water		22-Nov-2017 13:45	30-Nov-2017 08:44	☐
HS17111466-03	MW-7-3 200gal	Water		22-Nov-2017 15:20	30-Nov-2017 08:44	☐
HS17111466-04	MW-7-4 300gal	Water		22-Nov-2017 16:20	30-Nov-2017 08:44	☐
HS17111466-05	MW-7-5 400gal	Water		22-Nov-2017 17:20	30-Nov-2017 08:44	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 08-Dec-17

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS17111466

WetChemistry by Method E300

Batch ID: R306792

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

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ALS Group USA, Corp Date: 08-Dec-17

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS17111466
Sample ID: MW-7-1 Initial sample
Lab ID:HS17111466-01
Collection Date: 21-Nov-2017 11:30
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**599**		**8.00**	**20.0**	**mg/L**	40	07-Dec-2017 18:50

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

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ALS Group USA, Corp Date: 08-Dec-17

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS17111466
Sample ID: MW-7-2 100gal
Lab ID:HS17111466-02
Collection Date: 22-Nov-2017 13:45
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: JBA
Chloride	**842**		**8.00**	**20.0**	**mg/L**	40	07-Dec-2017 19:11

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

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ALS Group USA, Corp Date: 08-Dec-17

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**	
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS17111466	
Sample ID:	MW-7-3 200gal	Lab ID:HS17111466-03	
Collection Date:	22-Nov-2017 15:20	Matrix:Water	

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**886**		**8.00**	**20.0**	**mg/L**	40	07-Dec-2017 20:38

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

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ALS Group USA, Corp Date: 08-Dec-17

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS17111466
Sample ID:	MW-7-4 300gal	Lab ID:HS17111466-04
Collection Date:	22-Nov-2017 16:20	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**924**		**8.00**	**20.0**	**mg/L**	40	07-Dec-2017 21:00

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

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ALS Group USA, Corp Date: 08-Dec-17

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS17111466
Sample ID:	MW-7-5 400gal	Lab ID:HS17111466-05
Collection Date:	22-Nov-2017 17:20	Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: JBA
Chloride	**924**		**8.00**	**20.0**	**mg/L**	40	07-Dec-2017 21:21

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

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ALS Group USA, Corp Date: 08-Dec-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS17111466

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R306792	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS17111466-01	MW-7-1 Initial sample	21 Nov 2017 11:30			07 Dec 2017 18:50	40
HS17111466-02	MW-7-2 100gal	22 Nov 2017 13:45			07 Dec 2017 19:11	40
HS17111466-03	MW-7-3 200gal	22 Nov 2017 15:20			07 Dec 2017 20:38	40
HS17111466-04	MW-7-4 300gal	22 Nov 2017 16:20			07 Dec 2017 21:00	40
HS17111466-05	MW-7-5 400gal	22 Nov 2017 17:20			07 Dec 2017 21:21	40

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ALS Group USA, Corp Date: 08-Dec-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS17111466

QC BATCH REPORT

Batch ID: R306792 **Instrument: ICS3K2** **Method: E300**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW1-120717** Units: **mg/L** Analysis Date: **07-Dec-2017 19:33**										
Client ID: Run ID: **ICS3K2_306792** SeqNo: **4341823** PrepDate: DF: **1**										
Chloride	U	0.500								
LCS Sample ID: **WLCSW1-120717** Units: **mg/L** Analysis Date: **07-Dec-2017 14:17**										
Client ID: Run ID: **ICS3K2_306792** SeqNo: **4341812** PrepDate: DF: **1**										
Chloride	19.98	0.500	20	0	99.9	90 - 110				
LCSD Sample ID: **WLCSDW1-120717** Units: **mg/L** Analysis Date: **07-Dec-2017 14:38**										
Client ID: Run ID: **ICS3K2_306792** SeqNo: **4341813** PrepDate: DF: **1**										
Chloride	19.76	0.500	20	0	98.8	90 - 110	19.98	1.07	20	
MS Sample ID: **HS17120353-08MS** Units: **mg/L** Analysis Date: **07-Dec-2017 13:33**										
Client ID: Run ID: **ICS3K2_306792** SeqNo: **4341810** PrepDate: DF: **1**										
Chloride	31.31	0.500	10	21.43	98.8	80 - 120				
MS Sample ID: **HS17111466-05MS** Units: **mg/L** Analysis Date: **07-Dec-2017 21:43**										
Client ID: **MW-7-5 400gal** Run ID: **ICS3K2_306792** SeqNo: **4341829** PrepDate: DF: **40**										
Chloride	1306	20.0	400	924.2	95.4	80 - 120				
MSD Sample ID: **HS17120353-08MSD** Units: **mg/L** Analysis Date: **07-Dec-2017 13:55**										
Client ID: Run ID: **ICS3K2_306792** SeqNo: **4341811** PrepDate: DF: **1**										
Chloride	31.57	0.500	10	21.43	101	80 - 120	31.31	0.817	20	

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

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ALS Group USA, Corp Date: 08-Dec-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS17111466

QC BATCH REPORT

Batch ID: R306792 **Instrument: ICS3K2** **Method: E300**

MSD Sample ID: **HS17111466-05MSD** Units: **mg/L** Analysis Date: **07-Dec-2017 22:05**
Client ID: **MW-7-5 400gal** Run ID: **ICS3K2_306792** SeqNo: **4341830** PrepDate: DF: **40**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	1307	20.0	400	924.2	95.7	80 - 120	1306	0.0888	20	

The following samples were analyzed in this batch: HS17111466-01 HS17111466-02 HS17111466-03 HS17111466-04 HS17111466-05

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

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ALS Group USA, Corp Date: 08-Dec-17

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS17111466**

QUALIFIERS, ACRONYMS, UNITS

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

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

Unit Reported	Description
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group USA, Corp Date: 08-Dec-17

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	17-027-0	27-Mar-2018
California	2919 2016-2018	31-Jul-2018
Illinois	004112	09-May-2018
Kentucky	123043	30-Apr-2018
Louisiana	03087 2017-2017	30-Jun-2018
North Carolina	624-2017	31-Dec-2017
North Dakota	R193 2017-2017	30-Apr-2018
Oklahoma	2017-088	31-Aug-2018
Texas	T104704231-17-19	30-Apr-2018

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ALS Group USA, Corp Date: 08-Dec-17

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **30-Nov-2017 08:44**

Work Order: HS17111466 Received by: **JRM**

Checklist completed by: *Raegen Giga* eSignature 30-Nov-2017 Date Reviewed by: *Dane J. Wacasey* eSignature 4-Dec-2017 Date

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	1.5c/1.8c uc/c	IR 11	
Cooler(s)/Kit(s):	43419		
Date/Time sample(s) sent to storage:	11/30/2017 16:30		
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: sample IDs differ: COC MW7-1, 2, 3,etc label = MW 7 100gal , 200gal, 300gal & 400gal; Logged per COC.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

Released to Imaging: 9/20/2021 3:06:37 PM RIGHT SOLUTIONS | RIGHT PARTNER

Cincinnati, OH +1 513 733 5336
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Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Middletown, PA +1 717 944 5541
Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

Page _____ of _____

COC ID: 170568

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	4502201559 ENV749-40	Project Name	55627DM GSHI PXP Hill E.C. Fed	A	300_W (300 Chloride)
Work Order		Project Number		B	
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.	C	HS17111466
Send Report To	Angela Bown	Invoice Attn	Accounts Payable	D	Glenn Springs Holdings, Inc.
Address	PO Box 2148	Address	PO Box 2148	E	55627DM GSHI PXP Hill E.C. Federal #7 TB
				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	Angela.Bown@ghd.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 initial sample	11-21-17	1130	Water		1	X										
2	MW-7 - 2 100 gal.	11-22-17	1345	Water		1	X										
3	MW-7 - 3 200 gal.	11-22-17	1520	Water		1	X										
4	MW-7 - 4 300 gal.	11-22-17	1620	Water		1	X										
5	MW-7 - 5 400 gal.	11-22-17	1720	Water		1	X										
6	~~MW-7 - 6~~			~~Water~~		~~1~~	~~X~~										
7	~~MW-7 - DUP~~			~~Water~~		~~1~~	~~X~~										
8																	
9																	
10																	

Sampler(s) Please Print & Sign | Shipment Method | Required Turnaround Time: (Check Box) ☐ Other _____ ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour | Results Due Date:

Relinquished by: Stacy Bach	Date: 11-28-17	Time: 1620	Received by:	Notes: GSHI PXP Hill EC Federal 7 TB	
Relinquished by:	Date:	Time:	Received by (Laboratory): JM 11.30.17 0800	Cooler ID	Cooler Temp.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	43119	1.5
				1 and 1	
				COC+0.3	

QC Package: (Check One Box Below)
☒ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

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

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

43419

CUSTODY SEAL

Date: 11-28-17 Time: 1620
Name: Sterling Beadle
Company: Tetra Tech

Seal Broken By:
Date: 11/30/17

43419 NOV 3 0 2017

FedEx
TRK# 0221 7376 9750 1944

THU – 30 NOV 10:30A
PRIORITY OVERNIGHT

AB SGRA 43419

77099
TX – US IAH

Part # 156097-435 REV8 EXP 07/18

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

July 05, 2018

James Abston
Glenn Springs Holdings, Inc.
PO Box 2148

Houston, TX 77252-2148

Work Order: **HS18070059**

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

Dear James,

ALS Environmental received 5 sample(s) on Jul 03, 2018 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

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group Houston, Corp Date: 05-Jul-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS18070059

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS18070059-01	MW-7 Sample 1	Water		07-Jun-2018 11:20	03-Jul-2018 08:51	☐
HS18070059-02	MW-7 Sample 2	Water		07-Jun-2018 12:20	03-Jul-2018 08:51	☐
HS18070059-03	MW-7 Sample 3	Water		07-Jun-2018 13:20	03-Jul-2018 08:51	☐
HS18070059-04	MW-7 Sample 4	Water		07-Jun-2018 14:20	03-Jul-2018 08:51	☐
HS18070059-05	MW-7 Sample 5	Water		07-Jun-2018 15:20	03-Jul-2018 08:51	☐

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group Houston, Corp Date: 05-Jul-18

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS18070059

WetChemistry by Method E300

Batch ID: R319157

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group Houston, Corp Date: 05-Jul-18

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS18070059
Sample ID: MW-7 Sample 1
Lab ID:HS18070059-01
Collection Date: 07-Jun-2018 11:20
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: KMU
Chloride	**672**		**4.00**	**10.0**	**mg/L**	20	03-Jul-2018 15:47

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group Houston, Corp Date: 05-Jul-18

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS18070059
Sample ID: MW-7 Sample 2
Lab ID:HS18070059-02
Collection Date: 07-Jun-2018 12:20
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: KMU
Chloride	**824**		**4.00**	**10.0**	**mg/L**	20	03-Jul-2018 16:02

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group Houston, Corp Date: 05-Jul-18

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS18070059
Sample ID: MW-7 Sample 3
Lab ID:HS18070059-03
Collection Date: 07-Jun-2018 13:20
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: KMU
Chloride	**784**		**4.00**	**10.0**	**mg/L**	20	03-Jul-2018 18:13

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group Houston, Corp Date: 05-Jul-18

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS18070059
Sample ID: MW-7 Sample 4
Lab ID:HS18070059-04
Collection Date: 07-Jun-2018 14:20
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: KMU
Chloride	**823**		**4.00**	**10.0**	**mg/L**	20	03-Jul-2018 18:28

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group Houston, Corp Date: 05-Jul-18

Client: Glenn Springs Holdings, Inc.
ANALYTICAL REPORT
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder:HS18070059
Sample ID: MW-7 Sample 5
Lab ID:HS18070059-05
Collection Date: 07-Jun-2018 15:20
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: KMU
Chloride	**769**		**4.00**	**10.0**	**mg/L**	20	03-Jul-2018 18:42

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group Houston, Corp Date: 05-Jul-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18070059

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R319157	**Test Name :** ANIONS BY E300.0			**Matrix:** Water		
HS18070059-01	MW-7 Sample 1	07 Jun 2018 11:20			03 Jul 2018 15:47	20
HS18070059-02	MW-7 Sample 2	07 Jun 2018 12:20			03 Jul 2018 16:02	20
HS18070059-03	MW-7 Sample 3	07 Jun 2018 13:20			03 Jul 2018 18:13	20
HS18070059-04	MW-7 Sample 4	07 Jun 2018 14:20			03 Jul 2018 18:28	20
HS18070059-05	MW-7 Sample 5	07 Jun 2018 15:20			03 Jul 2018 18:42	20

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Group Houston, Corp Date: 05-Jul-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18070059

QC BATCH REPORT

Batch ID: R319157 **Instrument: ICS2100** **Method: E300**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW1-070318** Units: **mg/L** Analysis Date: **03-Jul-2018 23:04**										
Client ID: Run ID: **ICS2100_319157** SeqNo: **4636278** PrepDate: DF: **1**										
Chloride	U	0.500								
LCS Sample ID: **WLCSW1-070318** Units: **mg/L** Analysis Date: **03-Jul-2018 23:19**										
Client ID: Run ID: **ICS2100_319157** SeqNo: **4636279** PrepDate: DF: **1**										
Chloride	20.29	0.500	20	0	101	90 - 110				
LCSD Sample ID: **WLCSDW1-070318** Units: **mg/L** Analysis Date: **03-Jul-2018 23:33**										
Client ID: Run ID: **ICS2100_319157** SeqNo: **4636280** PrepDate: DF: **1**										
Chloride	20.7	0.500	20	0	104	90 - 110	20.29	2	20	
MS Sample ID: **HS18070057-01MS** Units: **mg/L** Analysis Date: **03-Jul-2018 14:56**										
Client ID: Run ID: **ICS2100_319157** SeqNo: **4636250** PrepDate: DF: **10**										
Chloride	281.8	5.00	100	174.3	107	80 - 120				
MS Sample ID: **HS18061510-01MS** Units: **mg/L** Analysis Date: **03-Jul-2018 19:11**										
Client ID: Run ID: **ICS2100_319157** SeqNo: **4636265** PrepDate: DF: **100**										
Chloride	4167	50.0	1000	3063	110	80 - 120				
MSD Sample ID: **HS18070057-01MSD** Units: **mg/L** Analysis Date: **03-Jul-2018 15:11**										
Client ID: Run ID: **ICS2100_319157** SeqNo: **4636251** PrepDate: DF: **10**										
Chloride	270.7	5.00	100	174.3	96.4	80 - 120	281.8	3.99	20	

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

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ALS Group Houston, Corp Date: 05-Jul-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18070059

QC BATCH REPORT

Batch ID: R319157 **Instrument: ICS2100** **Method: E300**

MSD Sample ID: **HS18061510-01MSD** Units: **mg/L** Analysis Date: **03-Jul-2018 19:26**
Client ID: Run ID: **ICS2100_319157** SeqNo: **4636266** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	4090	50.0	1000	3063	103	80 - 120	4167	1.85	20	

The following samples were analyzed in this batch: HS18070059-01 HS18070059-02 HS18070059-03 HS18070059-04 HS18070059-05

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

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ALS Group Houston, Corp Date: 05-Jul-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS18070059**

QUALIFIERS, ACRONYMS, UNITS

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

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

Unit Reported	Description
mg/L	Milligrams per Liter

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ALS Group Houston, Corp Date: 05-Jul-18

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
California	2919 2016-2018	31-Jul-2018
Oklahoma	2017-088	31-Aug-2018
North Carolina	624-2018	31-Dec-2018
Arkansas	88-0356	27-Mar-2019
Kansas	E-10352 2017-218	31-Jul-2018
Texas	T10470231-18-21	30-Apr-2019
North Dakota	R193 2018-2019	30-Apr-2019
Illinois	004438	29-Jun-2019
Louisiana	03087	30-Jun-2019
Dept of Defense	L2231 Rev 3-30-2018	22-Dec-2018
Kentucky	123043 - 2018	30-Apr-2019

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Date: 05-Jul-18

Sample Receipt Checklist

Client Name: Glen Springs/CRA
Work Order: HS18070059

Date/Time Received: **03-Jul-2018 08:51**
Received by: **PMG**

Checklist completed by: *Nilesh D. Ranchod* eSignature — 3-Jul-2018 Date

Reviewed by: *Dane J. Wacasey* eSignature — 3-Jul-2018 Date

Matrices: **Water**

Carrier name: **FedEx Priority Overnight**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.7UC/ 2.3C	IR # 30	
Cooler(s)/Kit(s):	25089		
Date/Time sample(s) sent to storage:	07/03/2018 10:30		
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:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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Chain of Custody Form

Page 1 of 1

COC ID: 176907

HS18070059

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

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	4501709538	Project Name	GSHI PXP Hill, E.C. Federal #7	A	Chloride (300)
Work Order		Project Number	55627DM	B	
Company Name	Glenn Springs Holdings	Bill To Company	Glenn Springs Holdings, Inc.	C	
Send Report To	Angela Bown	Invoice Attn	Jennifer Devonshire	D	
Address	C/O CRA 9033 Merridian Way	Address	PO Box 2148	E	
				F	
City/State/Zip	West Chester,Ohio,45069	City/State/Zip	Houston TX 77252-2148	G	
Phone	(513) 942-4750	Phone		H	
Fax		Fax		I	
e-Mail Address	abown@craworld.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 Sample 1	6/7/18	11:20	Water	8	1	X										
2	MW-7 Sample 2	6/7/18	12:20			1	X										
3	MW-7 Sample 3	6/7/18	13:20			1	X										
4	MW-7 Sample 4	6/7/18	14:20			1	X										
5	MW-7 Sample 5	6/7/18	15:20			1	X										
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Bill Smith & Preston Poitevint

Shipment Method: FedEx

Required Turnaround Time: (Check Box) ☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other _____

Results Due Date:

Relinquished by: [signature] Date: 7/2/18 Time: 16:00 Received by: [signature]

Relinquished by: _____ Date: _____ Time: _____ Received by (Laboratory): [signature] 7/3/18 08:51

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

Notes: 10 Day TAT

Cooler ID	Cooler Temp.
	ulc.
25089	2.7°
	#30
	ulc. 4°

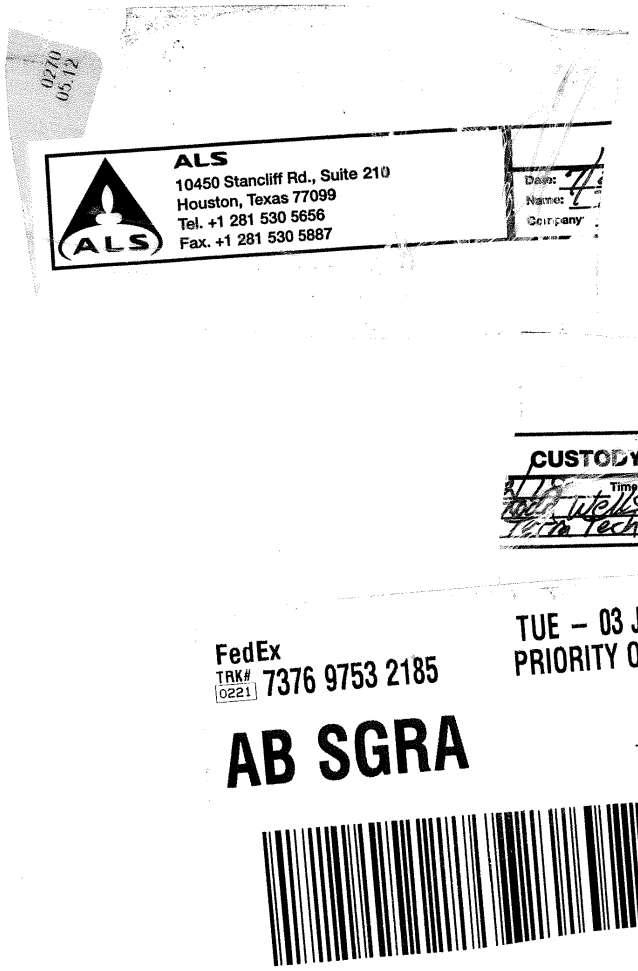
QC Package: (Check One Box Below)
☐ Level II Std QC ☐ Level III Std QC/Raw Data ☐ Level IV SW846/CLP ☐ Other ☐ TRRP Checklist ☐ TRRP Level IV

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

ote:
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0210 0512

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

Date:
Name:
Company

CUSTODY SEAL
Time: 16:00
Seal Broken By:
Date:

FedEx
TRK# 0221 7376 9753 2185

TUE – 03 JUL 10:30A
PRIORITY OVERNIGHT

AB SGRA

77099
TX – US IAH

BARCODE EXP 04/19

RIGHT SOLUTIONS | RIGHT PARTNER

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

September 21, 2018

James Abston
Glenn Springs Holdings, Inc.
PO Box 2148

Houston, TX 77252-2148

Work Order: **HS18090675**

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

Dear James,

ALS Environmental received 7 sample(s) on Sep 14, 2018 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,

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Dane J. Wacasey

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ALS Houston, US Date: 21-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS18090675

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS18090675-01	MW-7 - 1	Groundwater		10-Sep-2018 13:00	14-Sep-2018 08:56	☐
HS18090675-02	MW-7 - 2	Groundwater		10-Sep-2018 15:00	14-Sep-2018 08:56	☐
HS18090675-03	MW-7 - 3	Groundwater		10-Sep-2018 16:00	14-Sep-2018 08:56	☐
HS18090675-04	MW-7 - 4	Groundwater		10-Sep-2018 18:00	14-Sep-2018 08:56	☐
HS18090675-05	MW-7 - 5	Groundwater		10-Sep-2018 19:20	14-Sep-2018 08:56	☐
HS18090675-06	MW-7 - 6	Groundwater		10-Sep-2018 20:00	14-Sep-2018 08:56	☐
HS18090675-07	Trip Blank	Water	ALS-080918-5	10-Sep-2018 00:00	14-Sep-2018 08:56	☑

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 21-Sep-18

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS18090675

WetChemistry by Method E300

Batch ID: R323882

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 21-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 1
Collection Date: 10-Sep-2018 13:00

ANALYTICAL REPORT
WorkOrder:HS18090675
Lab ID:HS18090675-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**773**		**4.00**	**10.0**	**mg/L**	20	20-Sep-2018 23:18

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 21-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 2
Collection Date: 10-Sep-2018 15:00

ANALYTICAL REPORT
WorkOrder:HS18090675
Lab ID:HS18090675-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: KMU
Chloride	**812**		**4.00**	**10.0**	**mg/L**	20	21-Sep-2018 00:24

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 21-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 3
Collection Date: 10-Sep-2018 16:00

ANALYTICAL REPORT
WorkOrder:HS18090675
Lab ID:HS18090675-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**800**		**4.00**	**10.0**	**mg/L**	20	21-Sep-2018 00:45

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 21-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 4
Collection Date: 10-Sep-2018 18:00

ANALYTICAL REPORT
WorkOrder:HS18090675
Lab ID:HS18090675-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**789**		**4.00**	**10.0**	**mg/L**	20	21-Sep-2018 01:07

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 21-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 5
Collection Date: 10-Sep-2018 19:20

ANALYTICAL REPORT
WorkOrder:HS18090675
Lab ID:HS18090675-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**785**		**4.00**	**10.0**	**mg/L**	20	21-Sep-2018 01:29

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 21-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 6
Collection Date: 10-Sep-2018 20:00

ANALYTICAL REPORT
WorkOrder:HS18090675
Lab ID:HS18090675-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: KMU
Chloride	**773**		**4.00**	**10.0**	**mg/L**	20	21-Sep-2018 01:50

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

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 21-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18090675

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R323882	**Test Name :** ANIONS BY E300.0			**Matrix:** Groundwater		
HS18090675-01	MW-7 - 1	10 Sep 2018 13:00			20 Sep 2018 23:18	20
HS18090675-02	MW-7 - 2	10 Sep 2018 15:00			21 Sep 2018 00:24	20
HS18090675-03	MW-7 - 3	10 Sep 2018 16:00			21 Sep 2018 00:45	20
HS18090675-04	MW-7 - 4	10 Sep 2018 18:00			21 Sep 2018 01:07	20
HS18090675-05	MW-7 - 5	10 Sep 2018 19:20			21 Sep 2018 01:29	20
HS18090675-06	MW-7 - 6	10 Sep 2018 20:00			21 Sep 2018 01:50	20

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 21-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18090675

QC BATCH REPORT

Batch ID: R323882 **Instrument: ICS3K2** **Method: E300**

MBLK Sample ID: **WBLKW1-092018** Units: **mg/L** Analysis Date: **20-Sep-2018 18:58**
Client ID: Run ID: **ICS3K2_323882** SeqNo: **4735657** 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: **WLCSW1-092018** Units: **mg/L** Analysis Date: **20-Sep-2018 19:20**
Client ID: Run ID: **ICS3K2_323882** SeqNo: **4735658** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.97	0.500	20	0	99.9	90 - 110				

LCSD Sample ID: **WLCSDW1-092018** Units: **mg/L** Analysis Date: **20-Sep-2018 19:41**
Client ID: Run ID: **ICS3K2_323882** SeqNo: **4735659** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.98	0.500	20	0	99.9	90 - 110	19.97	0.02	20	

MS Sample ID: **HS18090737-03MS** Units: **mg/L** Analysis Date: **21-Sep-2018 04:01**
Client ID: Run ID: **ICS3K2_323882** SeqNo: **4735680** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	52.31	0.500	10	42.08	102	80 - 120				O

MS Sample ID: **HS18090675-01MS** Units: **mg/L** Analysis Date: **20-Sep-2018 23:40**
Client ID: **MW-7 - 1** Run ID: **ICS3K2_323882** SeqNo: **4735670** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	976.3	10.0	200	773.3	101	80 - 120				

MSD Sample ID: **HS18090737-03MSD** Units: **mg/L** Analysis Date: **21-Sep-2018 04:22**
Client ID: Run ID: **ICS3K2_323882** SeqNo: **4735681** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	52.16	0.500	10	42.08	101	80 - 120	52.31	0.276	20	O

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

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RIGHT SOLUTIONS | RIGHT PARTNER

ALS Houston, US Date: 21-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18090675

QC BATCH REPORT

Batch ID: R323882 **Instrument: ICS3K2** **Method: E300**

MSD Sample ID: **HS18090675-01MSD** Units: **mg/L** Analysis Date: **21-Sep-2018 00:02**
Client ID: **MW-7 - 1** Run ID: **ICS3K2_323882** SeqNo: **4735671** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	974.1	10.0	200	773.3	100	80 - 120	976.3	0.225	20	

The following samples were analyzed in this batch: HS18090675-01 HS18090675-02 HS18090675-03 HS18090675-04 HS18090675-05 HS18090675-06

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

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ALS Houston, US Date: 21-Sep-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS18090675**

QUALIFIERS, ACRONYMS, UNITS

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

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

Unit Reported	Description
mg/L	Milligrams per Liter

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ALS Houston, US Date: 21-Sep-18

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
North Carolina	624-2018	31-Dec-2018
Arkansas	88-0356	27-Mar-2019
Texas	T10470231-18-21	30-Apr-2019
North Dakota	R193 2018-2019	30-Apr-2019
Illinois	004438	29-Jun-2019
Louisiana	03087	30-Jun-2019
Dept of Defense	L2231 Rev 3-30-2018	22-Dec-2018
Kentucky	123043 - 2018	30-Apr-2019
Kansas	E-10352 2018-2019	31-Jul-2019
Oklahoma	2018-156	31-Aug-2019

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ALS Houston, US Date: 21-Sep-18

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **14-Sep-2018 08:56**

Work Order: HS18090675 Received by: **RPG**

Checklist completed by: *Pablo Marinez* eSignature 14-Sep-2018 Date

Reviewed by: *Corey Grandits* eSignature 17-Sep-2018 Date

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.3C/1.9C UC/C	IR # 11	
Cooler(s)/Kit(s):	44226		
Date/Time sample(s) sent to storage:	9/14/2018 15:00		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes: Trip Blank received, not listed on CoC, placed on hold.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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

Chain of Custody Form

Page _____ of _____

COC ID: 190389

HS18090675

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

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	4502201559 ENV749-40	Project Name	GSHI PXP Hill E.C. Federal #7 TB	A	300_W (300 Chloride)
Work Order		Project Number	55627DM (ENV749A008)	B	
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.	C	
Send Report To	Angela Bown	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	Angela.Bown@ghd.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	9/10/18	1300	Groundwa	8	1	X										
2	MW-7 - 2	9/10/18	1500	Groundwa	8	1	X										
3	MW-7 - 3	9/10/18	1600	Groundwa	8	1	X										
4	MW-7 - 4	9/10/18	1800	Groundwa	8	1	X										
5	MW-7 - 5	9/10/18	1920	Groundwa	8	1	X										
6	MW-7-6	9/10/18	2000	GW	8	1	X										
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Holstan Hunt

Shipment Method:

Required Turnaround Time: (Check Box) [X] STD 10 Wk Days [ ] 5 Wk Days [ ] 2 Wk Days [ ] 24 Hour [ ] Other _____

Results Due Date:

Relinquished by: Holstan Hunt — Date: 9/12/18 — Time: 1200 — Received by:

Relinquished by: — Date: 09/13/18 — Time: 0856 — Received by (Laboratory):

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

Notes: GSHI PXP Hill EC Federal 7 TB

Cooler ID	Cooler Temp.
44226	4°C 2.3
IR#	11

QC Package: (Check One Box Below)
[X] Level II Std QC
[ ] Level III Std QC/Raw Data
[ ] Level IV SW846/CLP
[ ] Other
[ ] TRRP Checklist
[ ] TRRP Level IV

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

CC-0.C

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

44226

CUSTODY SEAL
Date: 4.12.18 Time: 1200
Name: Houston Hunt Tetra Tech
Company:

Seal Broken By: PM
Date: 9.14.18

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

44226

CUSTODY SEAL
Date: 4.12.18 Time: 1200
Name: Houston Hunt Tetra Tech
Company:

Seal Broken By: PM
Date: 9.14.18

FedEx
TRK# 0221 4380 9531 8038

FRI – 14 SEP 10:30A
PRIORITY OVERNIGHT

AB SGRA 44226

77099
TX–US IAH

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

December 17, 2018

James Abston
Glenn Springs Holdings, Inc.
PO Box 2148

Houston, TX 77252-2148

Work Order: **HS18120143**

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

Dear James,

ALS Environmental received 8 sample(s) on Dec 04, 2018 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: 17-Dec-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS18120143

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS18120143-01	MW-7 - 1	Groundwater		29-Nov-2018 11:05	04-Dec-2018 09:30	☐
HS18120143-02	MW-7 - 2	Groundwater		29-Nov-2018 12:25	04-Dec-2018 09:30	☐
HS18120143-03	MW-7 - 3	Groundwater		29-Nov-2018 13:35	04-Dec-2018 09:30	☐
HS18120143-04	MW-7 - 4	Groundwater		29-Nov-2018 14:20	04-Dec-2018 09:30	☐
HS18120143-05	MW-7 - 5	Groundwater		29-Nov-2018 15:00	04-Dec-2018 09:30	☐
HS18120143-06	MW-7 - 6	Groundwater		29-Nov-2018 15:40	04-Dec-2018 09:30	☐
HS18120143-07	Trip Blank	Water	ALS 110718-50	04-Dec-2018 00:00	04-Dec-2018 09:30	☑
HS18120143-08	Dup	Groundwater		29-Nov-2018 00:00	04-Dec-2018 09:30	☐

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ALS Houston, US Date: 17-Dec-18

Client: Glenn Springs Holdings, Inc. **CASE NARRATIVE**
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Work Order: HS18120143

WetChemistry by Method E300

Batch ID: R329392

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

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ALS Houston, US Date: 17-Dec-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 1
Collection Date: 29-Nov-2018 11:05

ANALYTICAL REPORT
WorkOrder:HS18120143
Lab ID:HS18120143-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: KMU
Chloride	**637**		**4.00**	**10.0**	**mg/L**	20	14-Dec-2018 20:00

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

ALS Houston, US Date: 17-Dec-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 2
Collection Date: 29-Nov-2018 12:25

ANALYTICAL REPORT
WorkOrder:HS18120143
Lab ID:HS18120143-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**728**		**4.00**	**10.0**	**mg/L**	20	14-Dec-2018 21:05

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

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ALS Houston, US Date: 17-Dec-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 3
Collection Date: 29-Nov-2018 13:35

ANALYTICAL REPORT
WorkOrder:HS18120143
Lab ID:HS18120143-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**772**		**4.00**	**10.0**	**mg/L**	20	14-Dec-2018 21:26

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

ALS Houston, US Date: 17-Dec-18

Client:	Glenn Springs Holdings, Inc.	**ANALYTICAL REPORT**
Project:	55627DM GSHI PXP Hill E.C. Federal #7 TB	WorkOrder:HS18120143
Sample ID:	MW-7 - 4	Lab ID:HS18120143-04
Collection Date:	29-Nov-2018 14:20	Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**770**		**4.00**	**10.0**	**mg/L**	20	14-Dec-2018 21:48

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

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ALS Houston, US Date: 17-Dec-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 5
Collection Date: 29-Nov-2018 15:00

ANALYTICAL REPORT
WorkOrder:HS18120143
Lab ID:HS18120143-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0		**Method:E300**					Analyst: KMU
Chloride	**750**		**4.00**	**10.0**	**mg/L**	20	14-Dec-2018 22:10

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

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ALS Houston, US Date: 17-Dec-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: MW-7 - 6
Collection Date: 29-Nov-2018 15:40

ANALYTICAL REPORT
WorkOrder:HS18120143
Lab ID:HS18120143-06
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: KMU
Chloride	**765**		**4.00**	**10.0**	**mg/L**	20	14-Dec-2018 23:14

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

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ALS Houston, US Date: 17-Dec-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
Sample ID: Dup
Collection Date: 29-Nov-2018 00:00

ANALYTICAL REPORT
WorkOrder:HS18120143
Lab ID:HS18120143-08
Matrix:Groundwater

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY E300.0	**Method:E300**						Analyst: KMU
Chloride	**760**		**4.00**	**10.0**	**mg/L**	20	14-Dec-2018 23:36

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

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ALS Houston, US Date: 17-Dec-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18120143

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R329392	**Test Name :** ANIONS BY E300.0			**Matrix:** Groundwater		
HS18120143-01	MW-7 - 1	29 Nov 2018 11:05			14 Dec 2018 20:00	20
HS18120143-02	MW-7 - 2	29 Nov 2018 12:25			14 Dec 2018 21:05	20
HS18120143-03	MW-7 - 3	29 Nov 2018 13:35			14 Dec 2018 21:26	20
HS18120143-04	MW-7 - 4	29 Nov 2018 14:20			14 Dec 2018 21:48	20
HS18120143-05	MW-7 - 5	29 Nov 2018 15:00			14 Dec 2018 22:10	20
HS18120143-06	MW-7 - 6	29 Nov 2018 15:40			14 Dec 2018 23:14	20
HS18120143-08	Dup	29 Nov 2018 00:00			14 Dec 2018 23:36	20

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Houston, US Date: 17-Dec-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18120143

QC BATCH REPORT

Batch ID: R329392 **Instrument: ICS3K2** **Method: E300**

MBLK Sample ID: **WBLKW1-121418** Units: **mg/L** Analysis Date: **14-Dec-2018 18:43**
Client ID: Run ID: **ICS3K2_329392** SeqNo: **4868650** 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: **WLCSW1-121418** Units: **mg/L** Analysis Date: **14-Dec-2018 19:05**
Client ID: Run ID: **ICS3K2_329392** SeqNo: **4868651** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.1	0.500	20	0	101	90 - 110				

LCSD Sample ID: **WLCSDW1-121418** Units: **mg/L** Analysis Date: **14-Dec-2018 19:39**
Client ID: Run ID: **ICS3K2_329392** SeqNo: **4868652** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.11	0.500	20	0	101	90 - 110	20.1	0.0249	20	

MS Sample ID: **HS18120143-01MS** Units: **mg/L** Analysis Date: **14-Dec-2018 20:22**
Client ID: **MW-7 - 1** Run ID: **ICS3K2_329392** SeqNo: **4868654** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	825.1	10.0	200	637.3	93.9	80 - 120				

MS Sample ID: **HS18111417-01MS** Units: **mg/L** Analysis Date: **15-Dec-2018 00:19**
Client ID: Run ID: **ICS3K2_329392** SeqNo: **4868665** PrepDate: DF: **2500**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	106800	1250	25000	83430	93.5	80 - 120				

MSD Sample ID: **HS18120143-01MSD** Units: **mg/L** Analysis Date: **14-Dec-2018 20:43**
Client ID: **MW-7 - 1** Run ID: **ICS3K2_329392** SeqNo: **4868655** PrepDate: DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	826	10.0	200	637.3	94.4	80 - 120	825.1	0.114	20	

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Houston, US Date: 17-Dec-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: HS18120143

QC BATCH REPORT

Batch ID: R329392 **Instrument: ICS3K2** **Method: E300**

MSD Sample ID: **HS18111417-01MSD** Units: **mg/L** Analysis Date: **15-Dec-2018 00:41**
Client ID: Run ID: **ICS3K2_329392** SeqNo: **4868666** PrepDate: DF: **2500**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	106500	1250	25000	83430	92.2	80 - 120	106800	0.301	20	

The following samples were analyzed in this batch: HS18120143-01 HS18120143-02 HS18120143-03 HS18120143-04 HS18120143-05 HS18120143-06 HS18120143-08

ALS Houston, US Date: 17-Dec-18

Client: Glenn Springs Holdings, Inc.
Project: 55627DM GSHI PXP Hill E.C. Federal #7 TB
WorkOrder: **HS18120143**

QUALIFIERS, ACRONYMS, UNITS

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

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

Unit Reported	Description
mg/L	Milligrams per Liter

Released to Imaging: 9/20/2021 3:06:37 PM

ALS Houston, US Date: 17-Dec-18

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
North Carolina	624-2018	31-Dec-2018
Arkansas	88-0356	27-Mar-2019
Texas	T10470231-18-21	30-Apr-2019
North Dakota	R193 2018-2019	30-Apr-2019
Illinois	004438	29-Jun-2019
Louisiana	03087	30-Jun-2019
Dept of Defense	ANAB L2231	22-Dec-2018
Kentucky	123043 - 2018	30-Apr-2019
Kansas	E-10352 2018-2019	31-Jul-2019
Oklahoma	2018-156	31-Aug-2019

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ALS Houston, US Date: 17-Dec-18

Sample Receipt Checklist

Client Name: Glen Springs/CRA Date/Time Received: **04-Dec-2018 09:30**

Work Order: HS18120143 Received by: **NDD**

Checklist completed by: *Jared R. Makan* eSignature 4-Dec-2018 Date Reviewed by: *Dane J. Wacasey* eSignature 17-Dec-2018 Date

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

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	0.7c/1.1c UC/C	IR11	
Cooler(s)/Kit(s):	44545		
Date/Time sample(s) sent to storage:	12/04/2018 20:12		
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: DUP sample received, not listed on COC. Logged in for analysis. Trip Blank received not listed on COC, placed on hold.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Middletown, PA +1 717 944 5541
Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

Page 1 of 1

COC ID: 192063

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	4502201559 ENV749-40	Project Name	GSHI PXP Hill E.C. Federal #7 TB	A	300_W (300 Chloride)
Work Order		Project Number	55627DM (ENV749A008)	B	
Company Name	Glenn Springs Holdings, Inc.	Bill To Company	Glenn Springs Holdings, Inc.	C	
Send Report To	Angela Bown	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	Angela.Bown@ghd.com	e-Mail Address		J	

HS18120143

Glenn Springs Holdings, Inc.

55627DM GSHI PXP Hill E.C. Federal #7 TB

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-7 - 1	11-29-18	1105	Groundwa	8	1	X										
2	MW-7 - 2	11-29-18	1225	Groundwa	8	1	X										
3	MW-7 - 3	11-29-18	1335	Groundwa	8	1	X										
4	MW-7 - 4	11-29-18	1420	Groundwa	8	1	X										
5	MW-7 - 5	11-29-18	1500	Groundwa	8	1	X										
6	MW-7 - 6	11-29-18	1540	Groundwa	8	1	X										
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Preston Pojtervint

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Other ____ ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

	Date:	Time:		
Relinquished by:	12-3-18	1000	Received by:	
Relinquished by:	12/04/18	9:30	Received by (Laboratory):	Nelson
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Notes: GSHI PXP Hill EC Federal 7 TB

Cooler ID	Cooler Temp.
44545	0.7

QC Package: (Check One Box Below)

☒ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other ____

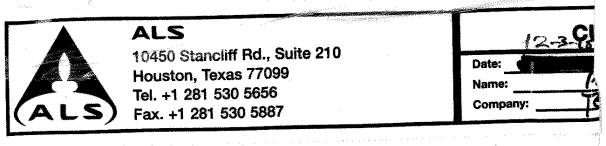
Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

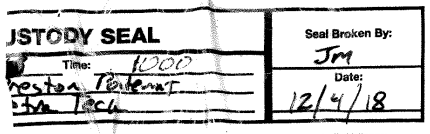
IPH

Cf = +0.1

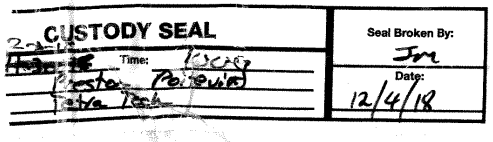
Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is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

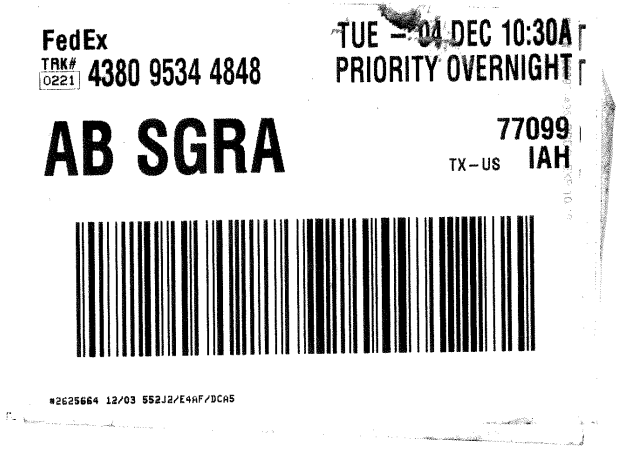
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ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887
Date:
Name:
Company:


USTODY SEAL
Time:
Seal Broken By:
Jm
Date:
12/4/18


ALS
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887
Date:
Name:
Company:


CUSTODY SEAL
Time:
Seal Broken By:
Jm
Date:
12/4/18


FedEx
TRK# 0221 4380 9534 4848
TUE - 04 DEC 10:30A
PRIORITY OVERNIGHT
AB SGRA
77099
TX-US IAH
#2625664 12/03 552J2/E4AF/DCA5

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

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 4939
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	Report accepted as written.	9/20/2021