6121 Indian School Road, NE Suite 200 Albuquerque, New Mexico 87110 **United States** www.GHD.com



REVIEWED

By Mike Buchanan at 11:30 am, Feb 12, 2024

Your ref: New Mexico Oil Conservation Division 1RP-9-5-2186 and 1RP-1540

Our ref: 12603932-LTR-Velez-1

October 25, 2023

Mr. Nelson Velez **State of New Mexico Energy, Minerals, and Natural Resources Department New Mexico Oil Conservation Division** 811 South First Street Artesia, New Mexico 88210

2022 Annual Groundwater Monitoring Report A-7 Bettis

Lea County, New Mexico

New Mexico Oil Conservation Division Nos. 1RP-9-5-2186 and 1RP-1540 Incident Number nAPP2214000463

Dear Mr. Velez.

On behalf of ET Gathering & Processing LLC (ETGP), formerly ETC Texas Pipeline. Ltd., GHD Services Inc. (GHD) is submitting the 2022 Annual Groundwater Monitoring Report (Report) for the above-referenced property (Site) to the New Mexico Oil Conservation Division (NMOCD). The Report summarizes activities performed at the Site during 2022.

Should you have any questions or comments regarding this submittal, please contact the undersigned.

Regards,

Blair Owen Project Manager

(561) 339-3572

Blair.Owen@GHD.com

J.T. Murrey **Project Director**

(361) 252-6136

JT.Murrey@GHD.com

Review of the 2022 Annual Groundwater Monitoring Report for A-7 Bettis: Content

groundwater monitoring in MW-1, MW-3, MW-6,

2. Conduct annual groundwater monitoring for chloride in MW-2, MW4, MW-5, MW-8 and

3. BTEX may be suspended from sampling

analysis due to eight (8) consecutive results

4. Install a monitoring well upgradient of MW-10

monitoring report by April 1, 2024, and include

results from new monitoring well if installation

1. Continue to conduct semi-annual

below the allowable concentrations.

to demonstrate chloride impact. 5. Submit the next annual groundwater

has been complete.

MW-7, MW-9 and MW-10

Satisfactory

MW-11

BO/mlr/1

Encl. 2022 Annual Groundwater Monitoring Report

Stacy Boultinghouse, Energy Transfer Copy:

Charlie Bettis, Landowner

The Power of Commitment



2022 Annual Groundwater Monitoring Report

A-7 Bettis
Lea County, New Mexico
NMOCD Nos. 1RP-9-5-2186 and 1RP-1540
Incident No. nAPP2214000463

ET Gathering & Processing LLC October 25, 2023

Contents

1.	Introduction				
	1.1	Site Background	1		
2.	Grou	ndwater Monitoring	2		
	2.1	Monitoring Well Gauging	2		
	2.2	Groundwater Sampling	3		
	2.3	Quality Assurance/Quality Control	3		
	2.4	Analytical Results	3		
3.	Sumr	mary and Recommendations	3		
	3.1	Summary	3		
	3.2	Recommendations	4		

Table index

Table 1	Summary of Groundwater Gauging and Elevation Data
Table 2	Summary of Groundwater Field Parameters
Table 3	Summary of Groundwater Analytical Results

Figure index

Figure 1	Site Location Map
Figure 2	Site Details Map
Figure 3	April 2022 Groundwater Potentiometric Surface Map
Figure 4	November 2022 Groundwater Potentiometric Surface Map
Figure 5	2022 Groundwater Chloride Concentrations Map
Figure 6	2022 Groundwater Benzene Concentrations Map
Figure 7	Proposed Monitoring Well Location Map

Appendices

Appendix A Laboratory Analytical Reports

1. Introduction

This report presents the results of groundwater monitoring activities performed during 2022 by GHD Services Inc. (GHD) at the ET Gathering & Processing LLC, formerly ETC Texas Pipeline, Ltd., A-7 Bettis site (Site). The Site is located at 32° 28' 31.3212"North and 103° 8' 31.74" West within Unit letter L, Sections 14 and 15. The property on which the Site is located is owned by Mr. Charlie Bettis of Eunice, New Mexico. The Site is regulated by the New Mexico Oil Conservation Division (NMOCD) under remediation case numbers 1RP-9-5-2186 and 1RP-1540 (associated with incident number nAPP2214000463).

1.1 Site Background

On August 22, 2007, Southern Union Gas Services, Ltd. (SUGS) discovered a release from a section of a 10-inch low pressure natural gas pipeline that had failed. SUGS verbally notified NMOCD regarding the release on the same day. The failure resulted in a release of a mixture of crude oil, produced water, and natural gas. The "Release Notification and Corrective Action" (Form C-141) indicated a release of approximately 200 barrels (bbls) of fluid, 130 bbls which were recovered via vacuum truck. The initial Form C-141 was submitted and approved by the NMOCD Hobbs District Office on August 31, 2007, and assigned case number 1RP-1540. On March 24, 2009, Form C-141 was resubmitted and again approved by the NMOCD Hobbs District Office and assigned the case number 1RP-9-5-2186.

Based on the product released, it was determined that the constituents of concern (COCs) to be evaluated at the Site were benzene, toluene, ethylbenzene, total xylenes (BTEX), total petroleum hydrocarbons (TPH), total dissolved solids (TDS), and chloride.

Between February 2009 and August 2019, soil and groundwater assessments and remediation events have been conducted at the Site, including the collection and analysis of surface soil samples, excavation and off-Site disposal of impacted soils, advancement of five soil borings for vertical and horizontal delineation, installation of 11 groundwater monitoring wells (MW-1 through MW-11), installation of passive oxygen release socks, and installation of an aeration windmill. Details of these events can be found in previous reports prepared for this Site; however, a summary of the events and their respective results are provided below.

Horizontal delineation of the impacted area was conducted with the collection and analysis of 10 surface soil samples on February 26, 2009, which was followed by the excavation of impacted soils from March to July 2009. Additional impacted soils remained in place that could not be removed due to safety considerations. The excavation was partially backfilled and compacted with clean imported soil to 15 feet below ground surface (bgs). A 20-millimeter polyethylene liner was installed over the backfilled soil to minimize the vertical migration of contaminants left in situ.

Five soil borings, SB-1 through SB-5, were advanced in October 2012 to assess the lateral and vertical extent of soil impacts, three of which were converted into monitoring wells (MW-1 through MW-3). Initial groundwater analytical results indicated that concentrations of BTEX, TDS, and chloride were detected in groundwater samples above the New Mexico Water Quality Control Commission (NMWQCC) standards.

Between August 2013 and December 2015, MW-4 through MW-11 were installed at the Site to further delineate groundwater impacts. Light non-aqueous phase liquid (LNAPL) has never been observed in the monitoring wells at the Site.

O-Sox[™], passive oxygen release socks, were installed in MW-1 and MW-6 through MW-9 on July 19, 2016, and were replaced on December 9, 2016. However, due to the O-Sox[™] swelling in the wells, creating difficulty for removal during replacement, the use of O-Sox[™] was discontinued in 2017.

To facilitate the degradation of low-level dissolved phase hydrocarbons in groundwater at the Site, GHD installed an aeration windmill in August of 2019. The windmill is located between MW-6 and MW-8 and was set to distribute air into groundwater via tubing and air diffusion stones in wells MW-8 and MW-9. The windmill operated from August through October 2019 and March through September 2020. Analytical results from groundwater samples collected since

discontinuation of windmill operation in 2020 suggest that benzene concentrations in groundwater remain below NMWQCC standard. The windmill has not been operated since September 2020.

In the 2019 Annual Groundwater Monitoring Report submitted to the NMOCD, a revised sampling schedule was proposed for the Site as follows.

- Continue sampling MW-1, MW-2, and MW-6 through MW-11 on a semi-annual basis.
- Decrease sampling for MW-3, MW-4, and MW-5 to an annual basis as those wells had never exceeded the NMWQCC standard for target constituents.

NMOCD approved the revised schedule on April 28, 2020, via email. The revised schedule was implemented in 2021; however, MW-2 was swapped for MW-3 (i.e., MW-2 sampling was reduced to semi-annual instead of MW-3). MW-2 has also never exceeded the NMWQCC standard for target constituents.

On May 24, 2023, NMOCD responded to the 2021 Annual Groundwater Monitoring report prepared and submitted for the Site. Their response included further modifications to the sampling schedule as follows.

- Terminate all sampling from MW-2, MW-3, MW-4, MW-5, MW-7, MW-8, and MW-11.
- Terminate sampling for BTEX from MW-1, MW-6, MW-9, and MW-10.
- Continue sampling for chloride from MW-1, MW-6, MW-9, and MW-10.

Additionally, NMOCD requested a monitoring well be installed up-gradient of MW-10 to confirm the concentrations of chloride in MW-10 (**Figure 7**). As the 2022 monitoring events and the first semi-annual event of 2023 had been conducted prior to receiving this response, the new sampling schedule will be initiated in the second semi-annual event of 2023. Details of the 2022 monitoring events are presented in this report.

2. Groundwater Monitoring

GHD performed semi-annual groundwater monitoring events at the Site on April 13 and November 8, 2022. The monitoring program included groundwater gauging MW-1 through MW-11 and sampling the monitoring wells as follows.

April 13, 2022

MW-1, MW-3, and MW-6 through MW-11

November 8, 2022

MW-1 through MW-11

2.1 Monitoring Well Gauging

On April 13 and November 8, 2022, GHD personnel measured the depth to groundwater in the wells indicated above using an electronic oil/water interface probe (IP). The IP was cleaned with laboratory grade soap and purified water prior to gauging each monitoring well. Depth to groundwater and calculated groundwater elevations are summarized in **Table 1**.

Based on the data collected in 2022, groundwater flow is generally southeast and is consistent with historical data for the Site. The groundwater gradient was calculated to be approximately 0.0023 ft/ft in April and at 0.0018 ft/ft in November. Groundwater potentiometric surface maps are presented as **Figure 3** and **Figure 4**.

2.2 Groundwater Sampling

Following gauging during each 2022 event, GHD collected groundwater samples from the monitoring wells per the schedule indicated above. Prior to sampling, GHD personnel utilized dedicated polyethylene bailers to purge a minimum of three well volumes of groundwater or until the well was dry. The wells were given time to recover prior to collecting a groundwater sample. Groundwater quality parameters of temperature, pH, oxidation reduction potential, and conductivity were collected with a field-calibrated multi-parameter groundwater quality meter and recorded on groundwater sampling forms. A summary of field parameters is presented in **Table 2**.

Groundwater samples were collected, placed in laboratory-prepared sample containers, packed in a cooler with ice, and shipped under chain-of-custody documentation to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. All samples were analyzed for BTEX via EPA Method 8260 and chloride via EPA Method 300.0.

2.3 Quality Assurance/Quality Control

During each groundwater monitoring event, a field duplicate was collected as a Quality Assurance/Quality Control (QA/QC) sample and subsequently submitted for laboratory analysis. A trip blank was also submitted as a QA/QC sample for each groundwater monitoring event.

2.4 Analytical Results

The NMWQCC mandates that groundwater quality in New Mexico be protected, and has issued groundwater quality standards in Title 20, Chapter 6, Part 2, Section 3103 of the NMAC (20.6.2.3103 NMAC). Groundwater quality standards have been set for the protection of human health, domestic water supply, and irrigation use.

The groundwater analytical results for 2022 are summarized in **Table 3** and the corresponding laboratory analytical reports are included in **Appendix A**. Chloride and benzene concentration maps are presented as **Figures 5 and 6**. A summary of results is discussed below.

- Concentrations of BTEX were not detected above laboratory detection limits in the groundwater samples
 collected from the monitoring wells during 2022, except for a detection of benzene in the November sample from
 MW-1; however, the detected concentration did not exceed the NMWQCC standard.
- Chloride was detected in all groundwater samples collected from the Site during the 2022 monitoring events.
 However, only the April groundwater samples collected from MW-7, MW-9, and MW-10, and the
 November groundwater samples collected from MW-3, MW-7, MW-9, and MW-10 had concentrations that exceeded the NMWQCC standard.

This is the first time that chloride has been detected above the NMWQCC standard in MW-3 and MW-7. Additionally, MW-6 is continuing to show a decrease in chloride concentrations.

3. Summary and Recommendations

3.1 Summary

The following summarizes the information and data presented in this report.

Benzene was only detected in MW-1; however, the concentration did not exceed the NMWQCC standard. The
remaining groundwater samples did not have detected concentrations of BTEX at or above laboratory reporting
limits.

- Chloride was detected in MW-3, MW-7, MW-9 and MW-10 at concentrations that exceeded the NMWQCC standard.
- This is the first time that chloride concentrations detected in MW-3 and MW-7 have exceeded the NMWQCC standard.

3.2 Recommendations

Based on the results of the 2022 groundwater monitoring events, GHD recommends the following:

- Continue semi-annual groundwater monitoring for chloride in MW-1, MW-3, MW-6, MW-7, MW-9, and MW-10.
- Conduct annual groundwater monitoring for chloride in MW-2, MW-4, MW-5, MW-8, and MW-11.
- Discontinue groundwater monitoring for BTEX in all monitoring wells.
- At the request of NMOCD, install one groundwater monitoring well up-gradient of MW-10 to confirm chloride concentrations that have been detected in groundwater. See Figure 7.

Table 1

Summary of Groundwater Gauging and Elevation Data A-7 Bettis

Well ID	TOC Elevation (ft)	Total Well Depth (ft bgs)	Date Measured	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft AMSL)
			2/7/2013	59.82	3,353.82
			5/10/2013	59.36	3,354.28
			9/3/2013	59.91	3,353.73
			7/30/2014	59.19	3,354.45
			10/31/2014	59.13	3,354.51
			1/21/2015	58.99	3,354.65
			4/21/2015	58.96	3,354.68
			12/21/2015	59.04	3,354.60
			6/1/2016	58.95	3,354.69
			12/8/2016	58.93	3,354.71
			5/9/2017	58.85	3,354.79
NAVA / 4	0.440.04	74.00	11/15/2017	58.95	3,354.69
MW-1	3,413.64	74.28	5/10/2018	58.95	3,354.69
			5/17/2018	59.00	3,354.64
			11/12/2018	58.76	3,354.88
			5/14/2019	59.22	3,354.42
			11/12/2019	Electronic fie	eld data lost.
			1/16/2020	59.43	3,354.21
			3/23/2020	59.41	3,354.23
			9/23/2020	59.51	3,354.13
			3/30/2021	59.62	3,354.02
			10/7/2021	59.76	3,353.88
			4/13/2022	59.82	3,353.82
			11/8/2022	59.85	3,353.79
			2/7/2013	59.10	3,353.78
			5/10/2013	58.20	3,354.68
			9/3/2013	58.21	3,354.67
			7/30/2014	58.02	3,354.86
			10/31/2014	57.91	3,354.97
			1/21/2015	57.75	3,355.13
			4/21/2015	57.76	3,355.12
			12/21/2015	57.84	3,355.04
			6/1/2016	57.79	3,355.09
			12/8/2016	57.78	3,355.10
			5/9/2017	57.71	3,355.17
MW-2	3.412.88	74.18	11/15/2017	57.75	3,355.13
10100-2	5,412.00	74.10	5/10/2018	57.75	3,355.13
			5/17/2018	57.77	3,355.11
			11/12/2018	57.97	3,354.91
			5/14/2019	57.97	3,354.91
			11/12/2019		eld data lost.
			1/16/2020	58.20	3,354.68
			3/23/2020	58.19	3,354.69
			9/23/2020	58.34	3,354.54
			3/30/2021	58.43	3,354.45
			10/7/2021	59.25	3,353.63
			4/13/2022	64.65	3,348.23
			11/8/2022	58.78	3,354.10

Table 1

Summary of Groundwater Gauging and Elevation Data A-7 Bettis

Well ID	TOC Elevation (ft)	Total Well Depth (ft bgs)	Date Measured	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft AMSL)
			2/7/2013	58.49	3,354.47
			5/10/2013	58.35	3,354.61
			9/3/2013	58.32	3,354.64
			7/30/2014	58.26	3,354.70
			10/31/2014	58.19	3,354.77
			1/21/2015	58.01	3,354.95
			4/21/2015	58.96	3,354.00
			12/21/2015	58.04	3,354.92
			6/1/2016	57.93	3,355.03
			12/8/2016	58.94	3,354.02
			5/9/2017	57.82	3,355.14
MW-3	3.412.96	74.04	11/15/2017	57.88	3,355.08
10100-3	3,412.90	74.04	5/10/2018	58.82	3,354.14
			5/17/2019	58.80	3,354.16
			11/12/2018	58.87	3,354.09
			5/14/2019	58.07	3,354.89
			11/12/2019	Electronic fie	eld data lost.
			1/16/2020	58.28	3,354.68
			3/23/2020	58.29	3,354.67
			9/23/2020	58.43	3,354.53
			3/30/2021	58.52	3,354.44
			10/7/2021	58.73	3,354.23
			4/13/2022	58.74	3,354.22
			11/8/2022	58.83	3,354.13
			9/3/2013	59.18	3,353.97
			7/30/2014	58.62	3,354.53
			10/31/2014	58.47	3,354.68
			1/21/2015	58.33	3,354.82
			4/21/2015	58.31	3,354.84
			12/21/2015	58.36	3,354.79
			6/1/2016	58.32	3,354.83
			12/8/2016	58.31	3,354.84
			5/9/2017	58.25	3,354.90
			11/15/2017	58.34	3,354.81
MW-4	3,413.15	72.65	5/10/2018	58.38	3,354.77
	0,110.10	72.00	5/17/2018	58.40	3,354.75
			11/12/2018	58.51	3,354.64
			5/14/2019	58.60	3,354.55
			11/12/2019		eld data lost.
			1/16/2020	58.82	3,354.33
			3/23/2020	58.81	3,354.34
			9/23/2020	58.95	3,354.20
			3/30/2021	65.04	3,348.11
			10/7/2021	58.61	3,354.54
			4/13/2022	59.24	3,353.91
			11/8/2022	59.26	3,353.89

Table 1

Summary of Groundwater Gauging and Elevation Data A-7 Bettis

Well ID	TOC Elevation (ft)	Total Well Depth (ft bgs)	Date Measured	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft AMSL)
			9/3/2013	59.23	3,354.30
			7/30/2014	59.14	3,354.39
			10/31/2014	59.12	3,354.41
			1/21/2015	58.93	3,354.60
			4/21/2015	58.97	3,354.56
			6/1/2016	58.90	3,354.63
			12/8/2016 5/9/2017	58.87	3,354.66
			11/15/2017	58.82 58.90	3,354.71 3,354.63
			5/10/2018	58.92	3,354.61
MW-5	3,413.53	73.32	5/17/2018	58.92	3,354.61
IVIVV-3	3,413.33	73.32	11/12/2018	58.92	3,354.61
			5/14/2019	59.23	3,354.30
			11/12/2019		eld data lost.
			1/16/2020	59.40	3,354.13
			3/23/2020	59.40	3,354.13
			9/23/2020	59.63	3,353.90
			3/30/2021	59.62	3,353.91
			10/7/2021	59.73	3,353.80
			4/13/2022	59.79	3,353.74
			11/8/2022	59.78	3,353.75
			9/3/2013*	59.10	3,354.20
			7/30/2014	59.03	3,354.27
			10/31/2014	59.06	3,354.24
			1/21/2015	58.94	3,354.36
			4/21/2015	58.95	3,354.35
			12/21/2015	58.89	3,354.41
			6/1/2016	58.81	3,354.49
			12/8/2016	58.80	3,354.50
			5/9/2017	58.74	3,354.56
			11/15/2017	58.80	3,354.50
MW-6	3.413.30	69.21	5/10/2018	58.82	3,354.48
	,		5/17/2018	58.80	3,354.50
			11/12/2018	58.82	3,354.48
			5/14/2019	59.14	3,354.16
			11/12/2019 1/16/2020	59.30	eld data lost. 3,354.00
			3/23/2020	59.30	3,354.00
			9/23/2020	59.26	3,353.90
			3/30/2021	59.40	3,353.90
			10/7/2021	58.64	3,354.66
			4/13/2022	59.66	3,353.64
			11/8/2022	59.64	3,353.66

Table 1

Summary of Groundwater Gauging and Elevation Data A-7 Bettis

Well ID	TOC Elevation (ft)	Total Well Depth (ft bgs)	Date Measured	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft AMSL)
			9/3/2013	58.62	3,354.39
			7/30/2014	58.53	3,354.48
			10/31/2014	58.57	3,354.44
			1/21/2015	58.44	3,354.57
			4/21/2015	58.35	3,354.66
			12/21/2015	58.36	3,354.65
			6/1/2016	58.27	3,354.74
			12/8/2016	58.27	3,354.74
			5/9/2017	58.16	3,354.85
			11/15/2017	58.23	3,354.78
MW-7	3,413.01	72.14	5/10/2018	58.22	3,354.79
			5/17/2018 11/12/2018	58.12 58.12	3,354.89
			5/14/2019	58.49	3,354.89 3,354.52
			11/12/2019		eld data lost.
			1/16/2020	58.69	3,354.32
			3/23/2020	58.66	3,354.35
			9/23/2020	58.79	3,354.22
			3/30/2021	58.88	3,354.13
			10/7/2021	59.02	3,353.99
			4/13/2022	59.07	3,353.94
			11/8/2022	59.10	3,353.91
			1/21/2015	57.84	3,354.18
	3,412.02	71.66	4/21/2015	57.75	3,354.27
			12/21/2015	57.75	3,354.27
			6/1/2016	57.65	3,354.37
			12/8/2016	57.62	3,354.40
			5/9/2017	57.65	3,354.37
			11/15/2017	57.60	3,354.42
			5/10/2018	57.70	3,354.32
			5/17/2018	57.73	3,354.29
MW-8			11/12/2018	57.63	3,354.39
			5/14/2019	57.98	3,354.04
			11/12/2019		eld data lost.
			1/16/2020	58.41	3,353.61
			3/23/2020	58.33	3,353.69
			9/23/2020	58.45 58.58	3,353.57
			3/30/2021 10/7/2021	58.47	3,353.44 3,353.55
			4/13/2022	58.47	3,353.55
			11/8/2022	58.41	3,353.61
			1/21/2015	58.21	3,354.17
			4/21/2015	58.10	3,354.28
			12/21/2015	58.10	3.354.28
			6/1/2016	58.02	3,354.36
			12/8/2016	58.00	3,354.38
			5/9/2017	58.00	3,354.38
			11/15/2017	58.08	3,354.30
			5/10/2018	58.10	3,354.28
			5/17/2018	58.10	3,354.28
MW-9	3,412.38	71.34	11/12/2018	58.05	3,354.33
			5/14/2019	58.45	3,353.93
			11/12/2019		eld data lost.
			1/16/2020	58.64	3,353.74
			3/23/2020	58.66	3,353.72
			9/23/2020	58.50	3,353.88
			3/30/2021	58.90	3,353.48
			10/7/2021	58.95	3,353.43
			4/13/2022	58.90	3,353.48
	1	1	11/8/2022	59.02	3,353.36

Table 1

Summary of Groundwater Gauging and Elevation Data A-7 Bettis

Lea County, New Mexico ET Gathering Processing LLC NMOCD Nos. 1RP-9-5-2186 and 1RP-1540

Well ID	TOC Elevation (ft)	Total Well Depth (ft bgs)	Date Measured	Depth to Groundwater (ft below TOC)	Groundwater Elevation (ft AMSL)
			12/21/2015	57.24	3,354.62
			6/1/2016	57.15	3,354.71
			12/8/2016	57.10	3,354.76
			5/9/2017	57.01	3,354.85
			11/15/2017	57.03	3,354.83
			5/10/2018	57.06	3,354.80
			5/17/2018	57.09	3,354.77
			11/12/2018	57.00	3,354.86
MW-10	3411.86	70.32	5/14/2019	57.32	3,354.54
			11/12/2019	Electronic fie	eld data lost.
			1/16/2020	57.53	3,354.33
			3/23/2020	57.49	3,354.37
			9/23/2020	57.70	3,354.16
			3/30/2021	57.71	3,354.15
			10/7/2021	57.85	3,354.01
			4/3/2022	57.90	3,353.96
			11/8/2022	58.07	3,353.79
			12/21/2015	58.01	3,354.13
			6/1/2016	57.92	3,354.22
			12/8/2016	57.92	3,354.22
			5/9/2017	57.86	3,354.28
			11/15/2017	57.98	3,354.16
			5/10/2018	58.07	3,354.07
			5/17/2018	57.06	3,355.08
			11/12/2018	58.03	3,354.11
MW-11	3412.14	70.32	5/14/2019	58.43	3353.71
			11/12/2019	Electronic fie	eld data lost.
			1/16/2020	58.56	3,353.58
			3/23/2020	58.50	3,353.64
			9/23/2020	58.65	3,353.49
			3/30/2021	58.80	3,353.34
			10/7/2021	58.87	3,353.27
			4/13/2022	58.82	3,353.32
			11/8/2022	58.69	3,353.45

Notes:

- 1) ft bgs = feet below ground surface
- 2) TOC = top of casing
- 3) AMSL = above mean sea level
- 4) LNAPL = light non-aqueous phase liquid
- 5) LNPAL has never been observed in the monitoring wells.

Summary of Groundwater Field Parameters A-7 Bettis Lea County, New Mexico

ET Gathering Processing LLC NMOCD Nos. 1RP-9-5-2186 and 1RP-1540

	Sample	Field		Conductivity	DO ORP			
Well ID	Date	Temperature (°C)	pН	(mS/cm)	(mg/L)	(mV)		
	7/30/2014	27.00	6.71	4.440	4.10	-129		
	10/30/2014							
	1/21/2015	8.20	7.76	2.880	28.9	-31.6		
	4/21/2015	21.00	6.66	3,790	3.60	3.20		
	12/21/2015	19.89	6.89	3,850	3.56	-90.7		
	6/1/2016	20.40	6.76	2,940	1.71	-124		
	12/9/2016	19.00	6.37	2,560	5.22	-114		
	5/9/2017	19.39	6.93	3,020	2.05	-147		
	11/15/2017	18.00	7.17	4,070	2.16	-45.3		
MW-1	5/17/2018	18.87	6.73	3,960		-181		
	11/12/2018	16.48	6.95	4,800	4.51	-120		
	5/14/2019	17.39	6.30	3,290	4.25	-153		
	11/12/2019	17.00		ronic field data lo		100		
	3/23/2020	19.59	6.64	3,300	2.60	-200		
	9/23/2020	19.90	7.17	1,880	3.01	-72.9		
	3/30/2021	20.53	7.02	1,670	1.24	-98.0		
	10/7/2021	20.46	7.19	1,190	1.43	-120		
	4/13/2022	20.30	6.98	1,800	1.11	21.5		
	11/8/2022	20.23	6.91	1,730	1.56	75.5		
	7/31/2014	24.40	7.05	1.510	21.5	215		
	10/30/2014	24.40	7.05	1,510	21.5			
	1/21/2015	12.90	7.40	1,650	23.1	242		
	4/21/2015	19.30	6.94	1,650 1.960	4.10	322		
	12/21/2015	19.59	7.31	/	3.06	-41.4		
	6/1/2016	20.10	6.93	1,650	1.93	37.4		
	12/9/2016	18.61	6.97	1,640	1.76	-113		
MW-2	5/9/2017	19.06	6.37	1,680	2.72	-58.5		
IVIVV-Z	11/15/2017	17.54	7.39	1,980	2.99	108		
	5/17/2018	18.51	6.97	1,630		-61.8		
	11/12/2018	17.35	7.12	1,710	5.33	-103		
	5/14/2019	17.60	6.66	1,460	4.97	-66.4		
	11/12/2019	40.00	Electronic field data lost.					
	3/23/2020	19.60	6.82	1,780	3.23	9.00		
	9/23/2020	20.50	7.25	1,400	2.31	38.4		
	10/7/2021	20.71	7.32	912	1.71	20.8		
	11/8/2022	21.34	7.54	1610	270	262		
	7/31/2014	21.00	7.13	1,170	16.1	571		
	10/30/2014							
	1/21/2015	9.70	7.71	1,430	52.3	409		
	4/21/2015	18.70	7.12	1,350	38.1	256		
	12/21/2015	19.70	7.36	1,470	3.11	-55.3		
	11/15/2017	17.81	7.55	1,600	2.44	118		
MW-3	5/17/2018							
	11/12/2018	15.65	7.34	1,390	4.88	-101.1		
	11/12/2019			ronic field data lo				
	9/23/2020	21.81	7.35	1,260	2.76	137		
	3/30/2021	20.17	7.24	1,140	1.08	247		
	10/7/2021	20.61	7.38	861	1.97	133		
	4/13/2022	19.50	7.26	1,330	2.28	189		
	11/8/2022	19.99	7.27	1,860	7.04	256		

Summary of Groundwater Field Parameters A-7 Bettis Lea County, New Mexico

ET Gathering Processing LLC NMOCD Nos. 1RP-9-5-2186 and 1RP-1540

	Sample	Field		Conductivity	DO	ORP
Well ID	Date	Temperature (°C)	рН	(mS/cm)	(mg/L)	(mV)
	7/30/2014	23.60	6.97	1,240	34.6	568
	10/30/2014				-	
	1/21/2015	15.00	7.31	1,390	26.6	525
	4/21/2015	19.50	6.97	1,420	18.0	463
	12/21/2015	19.71	7.00	1,620	3.01	-47.3
MW-4	11/15/2017	17.74	7.25	1,580	2.56	125
1V1 V V - 4	5/17/2018				-	
	11/12/2018	16.91	7.13	1,360	3.13	-84.1
	11/12/2019		Elect	ronic field data lo	ost.	
	9/23/2020	20.66	7.14	1,160	0.880	24.5
	10/7/2021	20.52	7.27	795	0.700	-10.5
	11/8/2022	20.31	7.02	1,400	1.75	226
	7/30/2014	22.70	6.86	1,210	10.1	55.7
	10/30/2014					
	1/21/2015	15.40	7.31	1,190	22.8	510
	4/21/2015	19.90	6.79	13,230	6.30	283
	11/15/2017	17.86	7.11	1,550	1.29	-50.3
MW-5	5/17/2018		-			
	11/12/2018	17.05	6.95	1,320	3.71	-110
	11/12/2019		Elect	ronic field data lo	ost.	
	9/23/2020	20.50	7.00	1,150	0.870	-112
	10/7/2021	20.49	7.18	746	1.06	-96.3
	11/8/2022	20.94	6.85	1,320	1.03	133
	7/30/2014	24.60	6.67	4,320	2.70	-145
	10/30/2014					
	1/21/2015	7.30	8.11	3,480	50.3	109
	4/21/2015	20.80	6.60	4,920	2.30	-30.9
	12/21/2015	19.56	6.99	6,450	3.14	-106
	6/2/2016	20.00	6.39	5,290	1.25	-93.8
	12/9/2016	18.90	6.99	4,390	1.88	-170
	5/9/2017	19.08	7.92	4,290	4.50	-73.8
	11/15/2017	17.72	7.38	4,350	1.01	-73.1
MW-6	5/17/2018	18.61	6.19	3,400		-145
IVIVV-0	11/12/2018	16.55	6.92	2,310	3.03	-88.1
	5/14/2019	16.79	6.47	1,760	5.10	-118
	11/12/2019		Elect	ronic field data lo	ost.	
	3/23/2020	19.51	6.72	2,120	2.06	-77
	7/28/2020	21.70	7.71	1,560	4.23	-43.5
	9/23/2020	20.54	7.08	1,760	1.08	-62.7
	3/30/2021	20.08	7.04	1,470	1.12	-74.4
	10/7/2021	20.44	4.20	968	1.09	-96.5
	4/13/2022	19.50	7.10	1,450	1.52	80
	11/8/2022	20.72	7.44	1,660	1.43	178

Summary of Groundwater Field Parameters A-7 Bettis

	T	Field							
Well ID	Sample	Temperature	рН	Conductivity	DO	ORP			
	Date	(°C)	μ	(mS/cm)	(mg/L)	(mV)			
	7/30/2014	24.10	7.01	1,410	6.50	-107			
	10/30/2014					-			
	1/21/2015	7.20	7.91	2,720	43.8	111			
	4/21/2015	21.10	6.95	1,940	10.0	270			
	12/21/2015	19.61	7.07	1,920	2.57	-108			
	6/2/2016	20.20	7.08	1,580	1.47	-116			
	12/9/2016	19.02	7.17	1,500	3.11	74.8			
	5/9/2017	19.27	6.91	1,400	2.24	-147			
	11/15/2017	17.64	7.49	1,760	1.67	-29.0			
MW-7	5/17/2018	18.51	7.12	1,500		-100			
	11/12/2018	16.85	7.15	1,570	3.73	-70.0			
	5/14/2019	18.06	6.54	1,350	2.98	-98.9			
	11/12/2019	•	Elect	ronic field data lo	ost.				
	3/23/2020	19.52	6.85	1,620	2.41	-53.4			
	9/23/2020	20.80	7.19	1,400	1.28	-36.9			
	3/30/2021	20.24	7.15	1,340	1.67	-59.0			
	10/7/2021	20.50	7.29	1,010	1.72	-81.9			
	4/13/2022	19.59	7.17	1,590	2.67	64.6			
	11/8/2022	20.48	6.95	2,040	1.86	141			
	1/21/2015	8.20	8.14	1200	40.2	317			
	4/21/2015	20.10	6.93	1,940	10.6	517			
	12/21/2015	19.14	7.09	2,140	3.68	-55.7			
	6/2/2016	19.80	7.08	1,820	1.43	130			
	12/9/2016	18.54	7.22	1,900	8.28	464			
	5/9/2017	18.65	6.92	1,940	6.38	335			
	11/15/2017	17.53	7.50	2,350	1.89	20.0			
	5/17/2018	18.43	6.97	1,950		-76.8			
MW-8	11/12/2018	15.88	7.21	2,080	5.72	-73.1			
IVIVV-O	5/14/2019	17.05	6.63	816	9.46	-53.1			
	11/12/2019 Electronic field data lost.								
	3/23/2020	19.43	6.93	1,750	3.50	-21			
	7/28/2020	20.70	8.18	1,030	10.2	-62.7			
	9/23/2020	21.68	7.48	1,480	4.20	486			
	3/30/2021	20.22	7.22	1,290	1.27	-93.8			
	10/7/2021	20.44	7.32	926	1.26	- 95.9			
	4/13/2022	19.43	7.22	1,380	2.39	69.6			
	11/8/2022	20.13	7.00	1,530	2.76	154			
	1/21/2015	6.00	8.33	1,180	60.9	202			
	4/21/2015	19.80	6.89	1,300	6.50	276			
	12/21/2015	19.31	7.09	1,400	3.04	-50.1			
	6/2/2016	19.90	6.93	1,180	1.23	-115			
	12/9/2016	18.72	7.15	1,150	7.87	-122			
	5/9/2017	18.88	6.68	1,140	3.76	-139			
	11/15/2017	17.68	7.16	1,460	1.41	-77.6			
	5/17/2018	18.07	6.72	1,200		-208			
MW-9	11/12/2018	16.81	7.03	1,220	2.95	-144			
	5/14/2019	17.18	6.59	1,030	3.84	-166			
	11/12/2019			ronic field data lo		_			
	3/23/2020	19.14	6.85	1,670	2.13	-200			
	7/28/2020	21.40	7.67	1,670	10.2	-87.4			
	9/23/2020	20.53	7.43	1,560	1.44	-109			
	3/30/2021	20.21	7.00	1,920	1.02	-124			
	10/7/2021	21.25	7.12	1,380	1.12	-138			
	4/13/2022	20.15	6.87	2,320	1.02	72.1			
	11/8/2022	20.22	6.55	2,580	1.74	112			

Summary of Groundwater Field Parameters A-7 Bettis

Lea County, New Mexico **ET Gathering Processing LLC** NMOCD Nos. 1RP-9-5-2186 and 1RP-1540

Well ID	Sample Date	Field Temperature (°C)	рН	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)
	12/21/2015	19.20	7.49	3,620	7.07	-9.4
	6/2/2016	20.10	7.23	3,250	3.74	97.2
	12/9/2016	18.64	7.23	3,180	3.76	420
	5/9/2017	18.74	5.98	3,540	2.97	-16.7
	11/15/2017	17.49	7.30	4,690	2.06	73.5
	5/17/2018	18.81	7.00	3,820		-50.1
	11/12/2018	16.82	7.33	4,570	3.70	-74.0
MW-10	5/14/2019	17.32	6.70	3,720	5.96	-60.6
	11/12/2019		Electr	onic field data lo	ost.	
	3/23/2020	19.22	6.91	4,680	3.49	5.40
	9/23/2020	20.67	7.19	4,640	2.75	135
	3/30/2021	20.19	7.11	4,510	2.34	39.3
	10/7/2021	20.35	7.20	3,470	2.75	44.4
	4/13/2022	19.44	7.03	5,650	2.34	186
	11/8/2022	19.69	6.94	6,440	3.53	264
	12/21/2015	18.44	7.41	1,290	6.97	43.2
	6/2/2016	19.80	7.36	1,120	6.51	386
	12/9/2016	18.56	7.34	1,086	6.85	437
	5/9/2017	18.82	7.09	1,121	4.94	-60.8
	11/15/2017	17.34	7.42	1,385	3.89	7.50
	5/17/2018	18.04	7.16	1,204		-60.2
	11/12/2018	15.99	7.45	1,238	7.81	-76.2
MW-11	5/14/2019	16.63	6.90	812	5.70	-58.4
10100-11	11/12/2019		Electr	onic field data lo	ost.	
	3/23/2020	19.94	6.99	1,247	2.64	-7.00
	7/28/2020	20.90	8.19	1,000	5.97	-41.9
	9/23/2020	20.44	7.30	1,049	1.42	-79.5
	3/30/2021	20.17	7.25	948	1.63	-58.2
	10/7/2021	20.22	7.44	666	1.99	-83.4
	4/13/2022	19.37	7.31	1,030	2.23	96.2
	11/8/2022	20.04	7.07	1,070	1.97	162

Notes:

- 1) C° = degrees Celsius
- 2) µS/cm = microsiemens per centimeter
- 3) DO = dissolved oxygen
- 4) mg/L = milligrams per liter
- 5) ORP = oxygen reduction potential 6) mV = millivolts
- 7) -- = data not collected

Table 3

Summary of Groundwater Analytical Results A-7 Bettis Lea County, New Mexico

ET Gathering Processing LLC NMOCD Nos. 1RP-9-5-2186 and 1RP-1540

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
NMWQC	C Groundwater	0.005	1.0	0.7	0.62	250
11111140	2/7/2013*	0.516	<0.00100	0.0688	0.0291	1,200
	5/10/2013*	0.551	0.0915	0.146	0.114	901
	9/3/2013*	0.00500		0.0172	0.0366	561
	2/28/2014*	0.395	<0.00200	0.0850	0.0350	1,220
	7/30/2014	<0.00100	<0.00200	<0.00100	0.0178	1,190
	10/31/2014	0.00500		0.0671	<0.00100	871
	1/21/2015	0.137	<0.0500	0.111	<0.05000	618
	4/21/2015	0.104	<0.00100	0.0324	<0.00100	845
	12/21/2015	0.00500		0.011	0.00210	890
	6/1/2016	0.0210	<0.00100	0.00730	<0.00150	850
	12/9/2016	0.00300	<0.00100	0.00200	<0.00150	600
NAVA / 4	5/9/2017	0.00500		0.00480	<0.00150	650
MW-1	11/15/2017	0.00960	<0.00100	0.00280	<0.00150	700
	5/10/2018					490
	5/17/2018	0.00500	<0.00100	0.00520	<0.00150	
	11/12/2018	0.00300	<0.00100	0.00160	<0.00150	1,400
	5/14/2019	<0.00100	<0.00100	<0.00100	<0.00150	1,200
	11/12/2019	0.00500		<0.00100	<0.00200	860
	3/23/2020	0.00180	<0.00100	<0.00100	<0.00150	710
	9/23/2020	0.00220	<0.00100	<0.00100	<0.00150	410
	3/30/2021	0.00220	<0.00100	<0.00100	<0.00150	300
	10/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	290
	4/13/2022	<0.00100	<0.00100	<0.00100	<0.00150	230
	11/8/2022	0.00140	<0.00100	<0.00100	<0.00150	210
	2/7/2013*	<0.00100	<0.00200	<0.00100	<0.00200	142
	5/10/2013*	<0.00100	<0.00200	<0.00100	<0.00200	138
	9/3/2013*	0.00500	<0.00100	<0.00100	<0.00200	139
	2/28/2014*	<0.00100	<0.00200	<0.00100	<0.00100	134
	7/31/2014	<0.00100	<0.00200	<0.00100	<0.00100	144
	10/31/2014	0.00500	<0.00100	<0.00100	<0.00100	168
	1/21/2015	<0.00100	<0.00100	<0.00100	<0.00100	167
	4/21/2015	<0.00100	<0.00100	<0.00100	<0.00100	159
	12/21/2015	<0.00100	<0.00100	<0.00100	<0.00150	170
	6/1/2016	<0.00100	<0.00100	<0.00100	<0.00150	180
MW-2	12/9/2016	<0.00100	<0.00100	<0.00100	<0.00150	190
	5/9/2017	<0.00100	<0.00100	<0.00100	<0.00150	190
	11/15/2017	<0.00100	<0.00100	<0.00100	<0.00150	170
	5/10/2018					67.0
	5/17/2018	<0.00100	<0.00100	<0.00100	<0.00150	
	11/12/2018	<0.00100	<0.00100	<0.00100	<0.00150	190
	5/14/2019	<0.00100	<0.00100	<0.00100	<0.00150	180
	11/12/2019	<0.00100	<0.00100	<0.00100	<0.00200	170
	3/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	180
	9/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	160
	10/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	170
	11/8/2022	<0.00100	<0.00100	<0.00100	<0.00150	200

Table 3

Summary of Groundwater Analytical Results A-7 Bettis Lea County, New Mexico

ET Gathering Processing LLC NMOCD Nos. 1RP-9-5-2186 and 1RP-1540

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
NMWQC	C Groundwater	0.005	1.0	0.7	0.62	250
	2/7/2013*	<0.00100	<0.00200	<0.00100	<0.00200	102
	5/10/2013*	<0.00100	<0.00200	<0.00100	<0.00200	91.3
	9/3/2013*	<0.00100	<0.00100	<0.00100	<0.00200	75.9
	2/28/2014*	<0.00100	<0.00200	<0.00100	<0.00100	95.4
	7/31/2014	<0.00100	<0.00200	<0.00100	<0.00100	89.9
	10/31/2014	0.00460	<0.00100	<0.00100	<0.00100	114
	1/21/2015	<0.00100	<0.00100	<0.00100	<0.00100	111
	4/21/2015	<0.00100	<0.00100	<0.00100	<0.00100	114
	12/21/2015	<0.00100	<0.00100	<0.00100	<0.00150	110
	6/1/2016			Not Sampled		
MW-3	12/9/2016			Not Sampled		
	5/9/2017			Not Sampled		
	11/15/2017	<0.00100	<0.00100	<0.00100	<0.00150	130
	5/17/2018			Not Sampled		
	11/12/2018	<0.00100	<0.00100	<0.00100	<0.00150	130
	11/12/2019	<0.00100	<0.00100	<0.00100	<0.00200	130
	9/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	150
	3/30/2021	<0.00100	<0.00100	<0.00100	<0.00150	160
	10/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	180
	4/13/2022	<0.00100	<0.00100	<0.00100	<0.00150	200
	11/8/2022	<0.00100	<0.00100	<0.00100	<0.00150	280
	9/3/2013*	<0.00100	<0.00100	<0.00100	<0.00100	86.9
	2/28/2014*	<0.00100	<0.00200	<0.00100	<0.00100	89.7
	7/30/2014	<0.00100	<0.00200	<0.00100	<0.00100	98.8
	10/31/2014	<0.00100	<0.00100	<0.00100	<0.00100	106
	1/21/2015	<0.00100	<0.00100	<0.00100	<0.00100	131
	4/21/2015	<0.00100	<0.00100	<0.00100	<0.00100	120
	12/21/2015	<0.00100	<0.00100	<0.00100	<0.00150	120
	6/1/2016			Not Sampled		
MW-4	12/9/2016			Not Sampled		
	5/9/2017			Not Sampled		
	11/15/2017	<0.00100	<0.00100	<0.00100	<0.00150	98.0
	5/17/2018			Not Sampled		
	11/12/2018	<0.00100	<0.00100	<0.00100	<0.00150	100
	11/12/2019	<0.00100	<0.00100	<0.00100	<0.00200	89.0
	9/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	100
	10/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	140
	11/8/2022	<0.00100	<0.00100	<0.00100	<0.00150	140

Table 3

Summary of Groundwater Analytical Results A-7 Bettis

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride				
NMWQC	C Groundwater	0.005	1.0	0.7	0.62	250				
	9/3/2013*	0.00200	<0.00100	<0.00100	<0.00100	85.7				
	2/28/2014*	<0.00100	<0.00200	<0.00100	<0.00100	87.1				
	7/30/2014	<0.00100	<0.00200	<0.00100	0.00410	73.4				
	10/31/2014	0.00440	<0.00100	<0.00100	0.0145	77.1				
	1/21/2015	<0.00100	<0.00100	<0.00100	0.00280	69.9				
	4/21/2015	<0.00100 <0.00100 <0.00100 0.00970 73.3								
	12/21/2015	Not Sampled								
	6/1/2016			Not Sampled						
MW-5	12/9/2016			Not Sampled						
	5/9/2017			Not Sampled						
	11/15/2017	<0.00100	<0.00100	<0.00100	<0.00150	73.0				
	5/17/2018			Not Sampled						
	11/12/2018	0.00170	<0.00100	<0.00100	<0.00150	64.0				
	11/12/2019	<0.00100	<0.00100	<0.00100	<0.00200	78.0				
	9/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	86.0				
	10/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	86.0				
	11/8/2022	<0.00100	<0.00100	<0.00100	<0.00150	110				
	9/3/2013*	0.469	<0.00100	0.00613	0.03420	906				
	2/28/2014*	0.851	<0.00100	0.0185	0.05900	1,290				
	7/30/2014	<0.00100	<0.00200	0.00965	0.01030	1,010				
	10/31/2014	0.647	<0.05000	<0.05000	0.36800	1,420				
	1/21/2015	0.440	<0.05000	<0.05000	<0.05000	429				
	4/21/2015	0.790	<0.05000	<0.05000	<0.05000	1,190				
	12/21/2015	0.200	<0.00100	0.00220	0.00340	1,700				
	6/2/2016	0.0990	<0.00100	0.00260	0.00390	1,500				
	12/9/2016	0.0160	<0.00100	0.00130	0.00150	1,400				
	5/9/2017	0.0120	<0.00100	0.00140	0.00160	1,100				
MW-6	11/15/2017	0.00270	<0.00100	<0.00100	<0.00150	1,200				
10100-0	5/10/2018					560				
	5/17/2018	0.00260	<0.00100	0.00170	<0.00150					
	11/12/2018	<0.00100	<0.00100	<0.00100	<0.00150	390				
	5/14/2019	<0.00100	<0.00100	<0.00100	<0.00150	410				
	11/12/2019	<0.00100	<0.00100	<0.00100	<0.00200	380				
	3/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	360				
	9/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	250				
	3/30/2021	<0.00100	<0.00100	<0.00100	<0.00150	270				
	10/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	210				
	4/13/2022	<0.00100	<0.00100	<0.00100	<0.00150	180				
	11/8/2022	<0.00100	<0.00100	<0.00100	<0.00150	180				

Table 3

Summary of Groundwater Analytical Results A-7 Bettis Lea County, New Mexico

ET Gathering Processing LLC NMOCD Nos. 1RP-9-5-2186 and 1RP-1540

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
NMWQC	C Groundwater	0.005	1.0	0.7	0.62	250
	9/3/2013*	0.0842	<0.00100	<0.00100	<0.00200	91.0
	2/28/2014*	0.0606	<0.00200	0.00149	<0.00100	88.3
	7/30/2014	<0.00100	<0.00200	<0.00100	<0.00100	70.6
	10/31/2014	0.0351	<0.00100	0.00290	0.00660	72.2
	1/21/2015	0.0169	<0.00100	<0.00100	<0.00100	46.6
	4/21/2015	0.0123	<0.00100	<0.00100	<0.00100	<25.0
	12/21/2015	0.0082	<0.00100	<0.00100	<0.00150	110
	6/2/2016	0.0110	<0.00100	<0.00100	<0.00150	99.0
	6/2/2016	0.0420	<0.00100	<0.00100	<0.00150	100
	(DUP)	0.0120	<0.00100	<0.00100	<0.00150	100
	12/9/2016	0.00310	<0.00100	<0.00100	<0.00150	94.0
	12/9/2016	0.00240	<0.00100	<0.00100	<0.00150	
MW-7	(DUP)	0.00310	<0.00100	<0.00100	<0.00150	
IVIVV-7	5/9/2017	0.00780	<0.00100	<0.00100	<0.00150	88.0
	11/15/2017	0.00150	<0.00100	<0.00100	<0.00150	96.0
	5/10/2018					32.0
	5/17/2018	<0.00100	<0.00100	<0.00100	<0.00150	
	11/12/2018	0.00110	<0.00100	<0.00100	<0.00150	150
	5/14/2019	<0.00100	<0.00100	<0.00100	<0.00150	170
	11/12/2019	<0.00100	<0.00100	<0.00100	<0.00200	130
	3/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	190
	9/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	180
	3/30/2021	<0.00100	<0.00100	<0.00100	<0.00150	200
	12/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	230
	4/13/2022	<0.00100	<0.00100	<0.00100	<0.00150	280
	11/8/2022	<0.00100	<0.00100	<0.00100	<0.00150	370
	1/21/2015	<0.00100	<0.00100	<0.00100	0.0012	362
	4/21/2015	<0.00100	<0.00100	<0.00100	<0.00100	184
	12/22/2015	0.0220	<0.00100	0.00250	<0.00150	190
	6/2/2016	0.0510	<0.00100	0.00600	<0.00150	170
	12/9/2016	0.0110	<0.00100	0.00320	<0.00150	190
	5/9/2017	0.0580	<0.00100	0.00550	<0.00150	180
	11/15/2017	0.0210	<0.00100	0.00290	<0.00150	180
	5/10/2018					98.0
MW-8	5/17/2018	0.00110	<0.00100	<0.00100	<0.00150	
IVIVV-O	11/12/2018	0.00110	<0.00100	<0.00100	<0.00150	160
	5/14/2019	0.00150	<0.00100	<0.00100	<0.00150	130
	11/12/2019	<0.00100	<0.00100	<0.00100	<0.00200	100
	3/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	100
	9/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	100
	3/30/2021	<0.00100	<0.00100	<0.00100	<0.00150	110
	10/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	130
	4/13/2022	<0.00100	<0.00100	<0.00100	<0.00150	130
	11/8/2022	<0.00100	<0.00100	<0.00100	<0.00150	150
	11/0/2022	~0.00100	10.00100	~0.00100	\0.00130	100

Table 3

Summary of Groundwater Analytical Results A-7 Bettis

Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
NMWQC	C Groundwater	0.005	1.0	0.7	0.62	250
	1/21/2015	0.0240	<0.00100	<0.00100	0.0151	53.9
	4/21/2015	0.0305	<0.00100	<0.00100	0.0340	53.4
	12/22/2015	0.0190	<0.00100	<0.00100	0.0180	57.0
	6/2/2016	0.0510	<0.00100	<0.00100	0.0250	43.0
	12/9/2016	0.0320	<0.00100	<0.00100	0.0140	43.0
	5/9/2017	0.0780	<0.00100	<0.00100	0.0400	42.0
	11/15/2017	0.0290	<0.00100	<0.00100	0.0160	35.0
	5/10/2018					33.0
	5/17/2018	0.0200	<0.00100	<0.00100	0.00170	-
	11/12/2018	0.00760	<0.00100	<0.00100	<0.00150	41.0
	5/14/2019	0.00850	<0.00100	<0.00100	<0.00150	80.0
	11/12/2019	0.00250	<0.00100	<0.00100	0.0190	220
	11/12/2019 (DUP)	0.00160	<0.00100	<0.00100	0.0110	220
MW-9	3/23/2020	0.00240	<0.00100	<0.00100	0.00520	280
	9/23/2020	0.00150	<0.00100	<0.00100	<0.00150	350
	9/23/2020 (DUP)	0.00140	<0.00100	<0.00100	<0.00150	380
	3/30/2021	<0.00100	<0.00100	<0.00100	0.00160	450
	3/30/2021	<0.00100	<0.00100	<0.00100	<0.00150	420
	(DUP) 10/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	510
	10/7/2021 (DUP)	<0.00100	<0.00100	<0.00100	<0.00150	620
	4/13/2022	<0.00100	<0.00100	<0.00100	<0.00150	710
	4/13/2022 (DUP)	<0.00100	<0.00100	<0.00100	<0.00150	710
	11/8/2022	<0.00100	<0.00100	<0.00100	<0.00150	620
	12/21/2015	<0.00100	<0.00100	<0.00100	<0.00150	570
	6/2/2016	<0.00100	<0.00100	<0.00100	<0.00150	500
	12/9/2016	<0.00100	<0.00100	<0.00100	<0.00150	580
	5/9/2017	<0.00100	<0.00100	<0.00100	<0.00150	640
	11/15/2017	<0.00100	<0.00100	<0.00100	<0.00150	520
	5/10/2018					730
	5/10/2018 (DUP)					750
	5/17/2018	<0.00100	<0.00100	<0.00100	<0.00150	
MW-10	11/12/2018	<0.00100	<0.00100	<0.00100	<0.00150	770
10100-10	5/14/2019	<0.00100	<0.00100	<0.00100	<0.00150	810
	5/14/2019 (DUP)	<0.00100	<0.00100	<0.00100	<0.00150	830
	11/12/2019	<0.00100	<0.00100	<0.00100	<0.00200	930
	3/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	1,100
	9/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	1,300
	3/30/2021	<0.00100	<0.00100	<0.00100	<0.00150	1,300
	10/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	1,600
	4/13/2022	<0.00100	<0.00100	<0.00100	<0.00150	1,900
	11/8/2022	<0.00100	<0.00100	<0.00100	<0.00150	1,800

Table 3 6 of 6

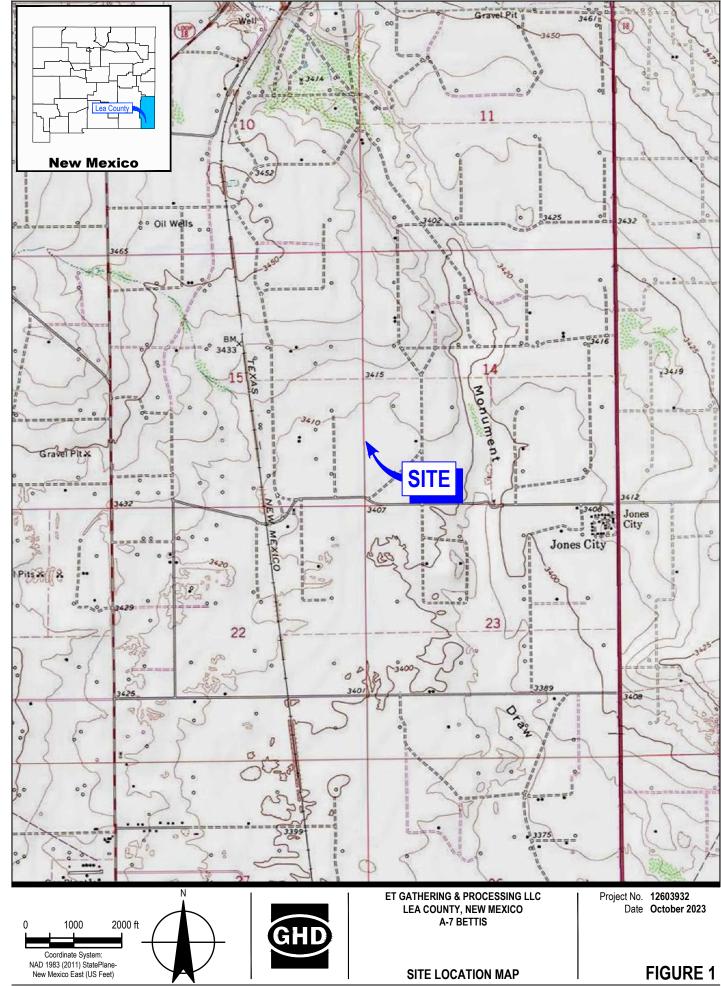
Summary of Groundwater Analytical Results A-7 Bettis Lea County, New Mexico ET Gathering Processing LLC

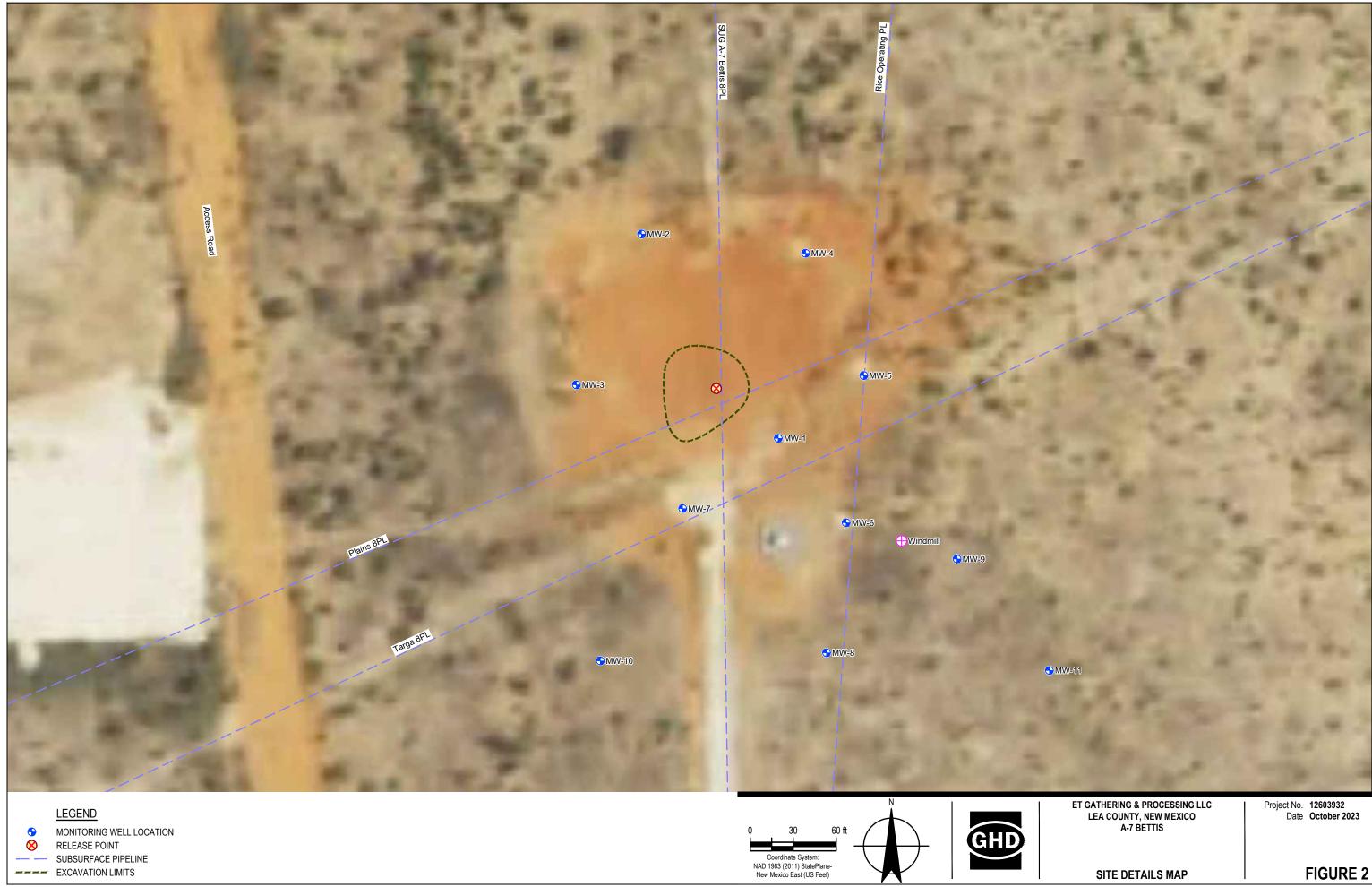
NMOCD Nos. 1RP-9-5-2186 and 1RP-1540

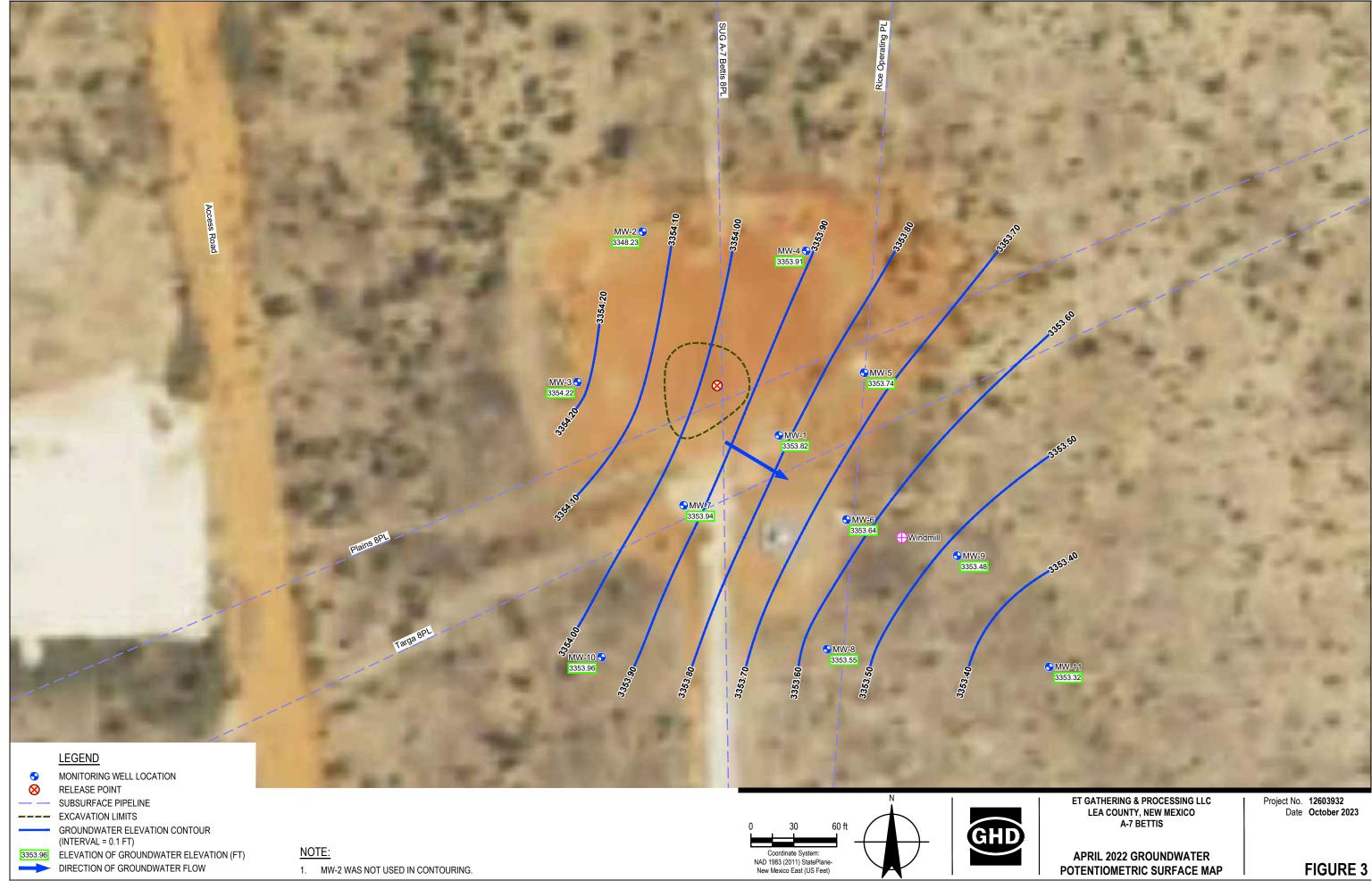
Well ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chloride
NMWQC	C Groundwater	0.005	1.0	0.7	0.62	250
	12/21/2015	0.00130	<0.00100	<0.00100	<0.00150	55.0
	6/2/2016	<0.00100	<0.00100	<0.00100	<0.00150	46.0
	12/9/2016	<0.00100	<0.00100	<0.00100	<0.00150	44.0
	5/9/2017	0.00230	<0.00100	<0.00100	<0.00150	56.0
	11/15/2017	0.0130	<0.00100	<0.00100	0.00180	35.0
	5/10/2018					44.0
	5/17/2018	0.00160	<0.00100	<0.00100	<0.00150	
MW-11	11/12/2018	<0.00100	<0.00100	<0.00100	<0.00150	42.0
10100-11	5/14/2019	<0.00100	<0.00100	<0.00100	<0.00150	43.0
	11/12/2019	0.00100	<0.00100	<0.00100	<0.00200	33.0
	3/23/2020	<0.00100	<0.00100	<0.00100	<0.00150	44.0
	9/23/2020	0.00140	<0.00100	<0.00100	<0.00150	43.0
	3/30/2021	0.00150	<0.00100	<0.00100	<0.00150	52.0
	10/7/2021	<0.00100	<0.00100	<0.00100	<0.00150	56.0
	4/13/2022	<0.00100	<0.00100	<0.00100	<0.00150	62.0
	11/8/2022	<0.00100	<0.00100	<0.00100	<0.00150	60.0

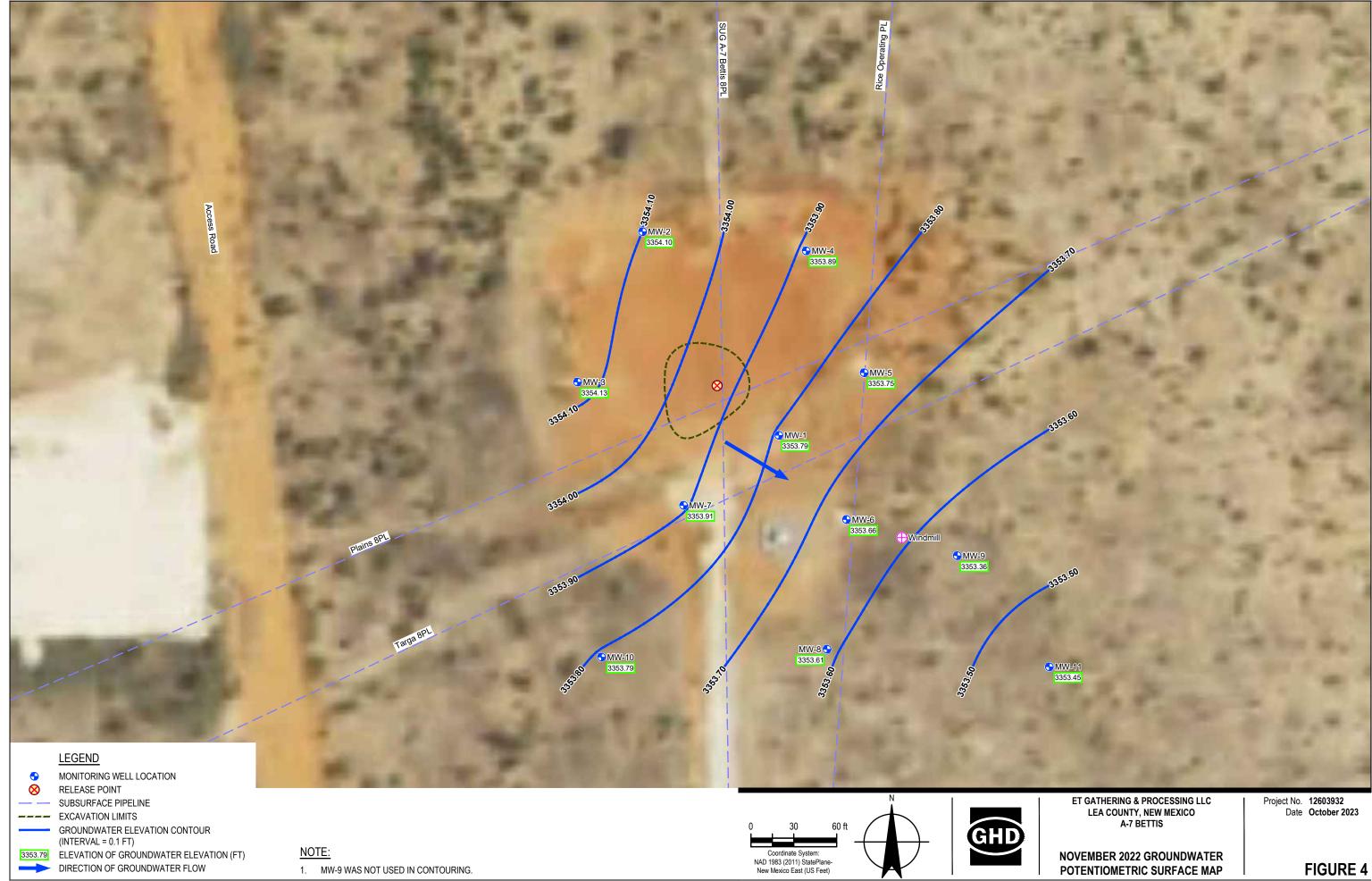
Notes:

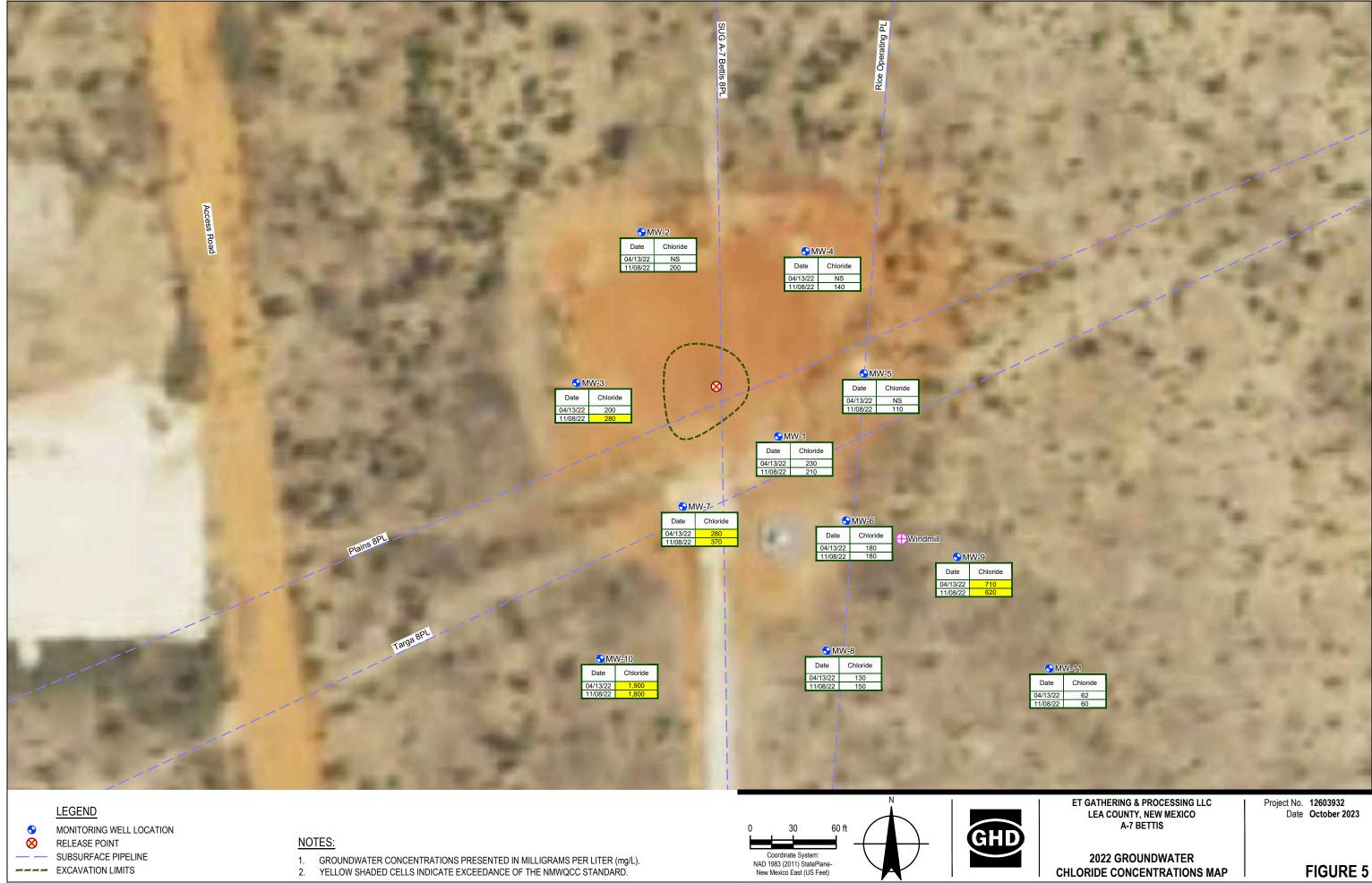
- 1) Analytical results are presented in milligrams per liter (mg/L)
- 2) NMWQCC = New Mexico Water Quality Control Commission
- 3) * = samples collected by Basin Environmental Services, LLC.
- 4) -- = not analyzed
- 5) < = Analyte was not detected at or above the laboratory reporting limit.
- 6) Shaded/bolded results exceed their respective NMWQCC groundwater quality standard.

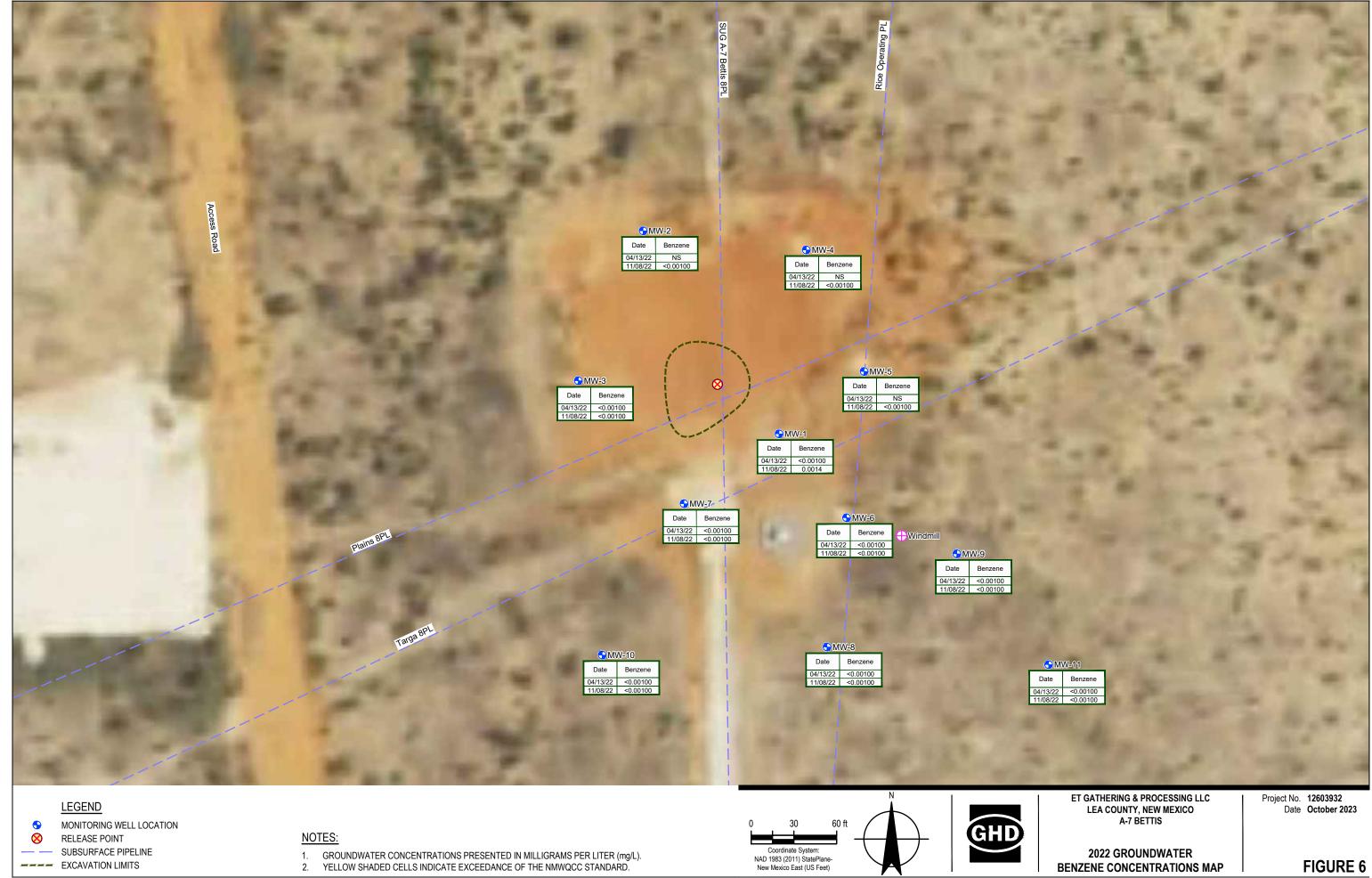


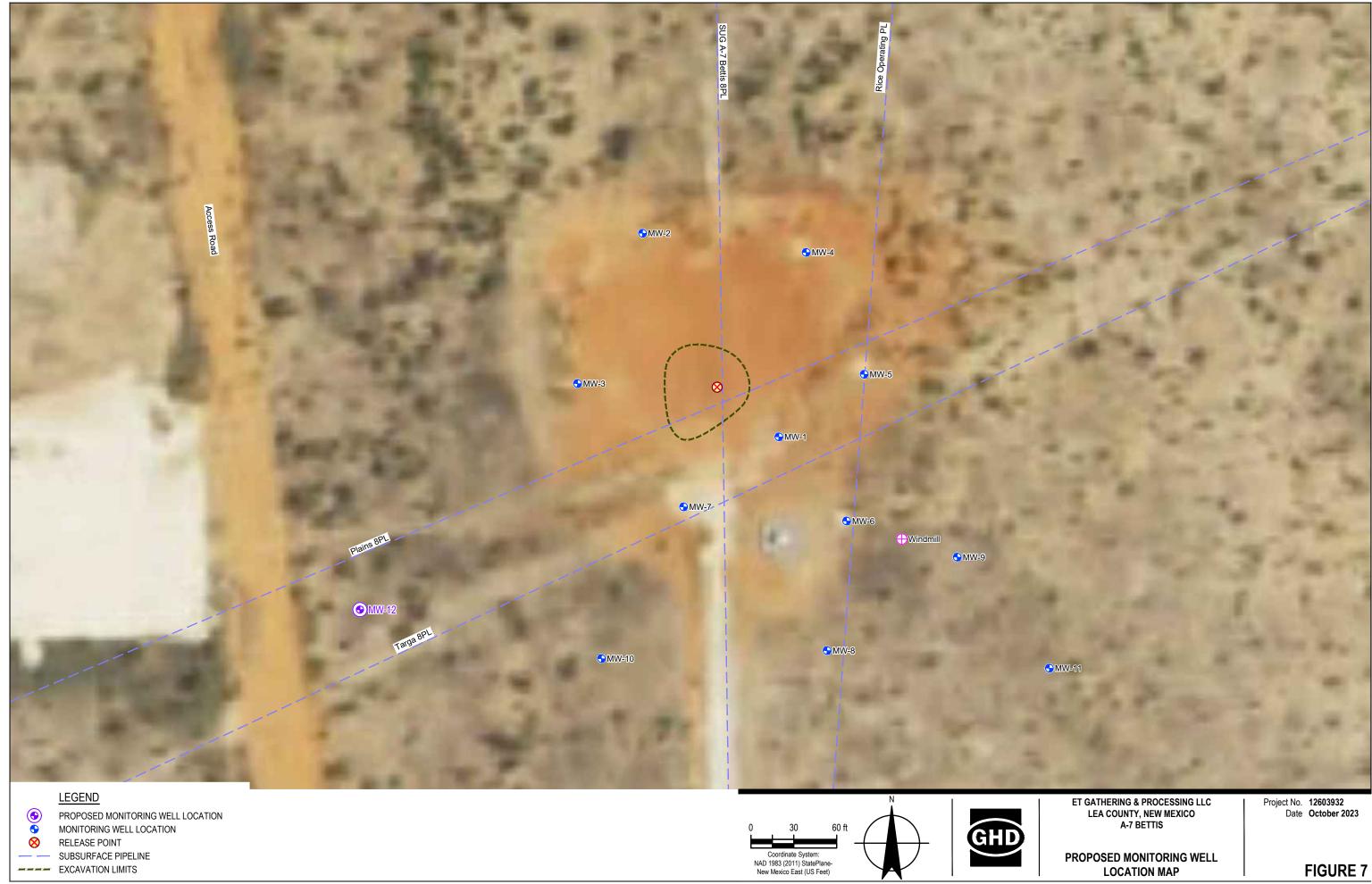












Appendices

Appendix A

Laboratory Analytical Reports



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

April 25, 2022

Christine Mathews

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110 TEL: (505) 884-0672

FAX:

RE: Bettis OrderNo.: 2204658

Dear Christine Mathews:

Hall Environmental Analysis Laboratory received 10 sample(s) on 4/14/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 2204658

Date Reported: 4/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: GW-12574706-041322-CN-MW

 Project:
 Bettis
 Collection Date: 4/13/2022 10:00:00 AM

 Lab ID:
 2204658-001
 Matrix: AQUEOUS
 Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	230	50	mg/L	100	4/21/2022 3:01:35 PM	R87438
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	1.0	μg/L	1	4/18/2022 5:57:09 PM	R87320
Toluene	ND	1.0	μg/L	1	4/18/2022 5:57:09 PM	R87320
Ethylbenzene	ND	1.0	μg/L	1	4/18/2022 5:57:09 PM	R87320
Xylenes, Total	ND	2.0	μg/L	1	4/18/2022 5:57:09 PM	R87320
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	4/18/2022 5:57:09 PM	R87320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 12

Analytical Report Lab Order 2204658

Date Reported: 4/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: GW-12574706-041322-CN-MW

 Project:
 Bettis
 Collection Date: 4/13/2022 10:30:00 AM

 Lab ID:
 2204658-002
 Matrix: AQUEOUS
 Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	200	50	mg/L	100	4/21/2022 3:26:17 PM	R87438
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	1.0	μg/L	1	4/18/2022 7:07:40 PM	R87320
Toluene	ND	1.0	μg/L	1	4/18/2022 7:07:40 PM	R87320
Ethylbenzene	ND	1.0	μg/L	1	4/18/2022 7:07:40 PM	R87320
Xylenes, Total	ND	2.0	μg/L	1	4/18/2022 7:07:40 PM	R87320
Surr: 4-Bromofluorobenzene	96.9	70-130	%Rec	1	4/18/2022 7:07:40 PM	R87320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 12

Analytical Report

Lab Order **2204658**Date Reported: **4/25/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: GW-12574706-041322-CN-MW

 Project:
 Bettis
 Collection Date: 4/13/2022 11:00:00 AM

 Lab ID:
 2204658-003
 Matrix: AQUEOUS
 Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	180	5.0	mg/L	10	4/21/2022 3:38:37 PM	R87438
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	1.0	μg/L	1	4/18/2022 7:31:00 PM	R87320
Toluene	ND	1.0	μg/L	1	4/18/2022 7:31:00 PM	R87320
Ethylbenzene	ND	1.0	μg/L	1	4/18/2022 7:31:00 PM	R87320
Xylenes, Total	ND	2.0	μg/L	1	4/18/2022 7:31:00 PM	R87320
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	4/18/2022 7:31:00 PM	R87320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 12

Analytical Report Lab Order 2204658

Date Reported: 4/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: GW-12574706-041322-CN-MW

 Project:
 Bettis
 Collection Date: 4/13/2022 12:00:00 PM

 Lab ID:
 2204658-004
 Matrix: AQUEOUS
 Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	280	50	* mg/L	100	4/21/2022 4:15:39 PM	R87438
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	1.0	μg/L	1	4/18/2022 7:54:24 PM	R87320
Toluene	ND	1.0	μg/L	1	4/18/2022 7:54:24 PM	R87320
Ethylbenzene	ND	1.0	μg/L	1	4/18/2022 7:54:24 PM	R87320
Xylenes, Total	ND	2.0	μg/L	1	4/18/2022 7:54:24 PM	R87320
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	4/18/2022 7:54:24 PM	R87320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 12

Date Reported: 4/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: GW-12574706-041322-CN-MW

 Project:
 Bettis
 Collection Date: 4/13/2022 12:30:00 PM

 Lab ID:
 2204658-005
 Matrix: AQUEOUS
 Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	130	5.0	mg/L	10	4/21/2022 4:52:42 PM	R87438
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	1.0	μg/L	1	4/18/2022 8:17:49 PM	R87320
Toluene	ND	1.0	μg/L	1	4/18/2022 8:17:49 PM	R87320
Ethylbenzene	ND	1.0	μg/L	1	4/18/2022 8:17:49 PM	R87320
Xylenes, Total	ND	2.0	μg/L	1	4/18/2022 8:17:49 PM	R87320
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	4/18/2022 8:17:49 PM	R87320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 12

Date Reported: 4/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: GW-12574706-041322-CN-MW

Project: Bettis
 Collection Date: 4/13/2022 1:00:00 PM

 Lab ID: 2204658-006
 Matrix: AQUEOUS
 Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL C	Qual Units	DF :	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	710	50	* mg/L	100	4/21/2022 5:29:44 PM	R87438
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	1.0	μg/L	1	4/18/2022 11:24:57 PM	R87320
Toluene	ND	1.0	μg/L	1	4/18/2022 11:24:57 PM	R87320
Ethylbenzene	ND	1.0	μg/L	1	4/18/2022 11:24:57 PM	R87320
Xylenes, Total	ND	2.0	μg/L	1	4/18/2022 11:24:57 PM	R87320
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	4/18/2022 11:24:57 PM	R87320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 12

Date Reported: 4/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: GW-12574706-041322-CN-MW

 Project:
 Bettis
 Collection Date: 4/13/2022 2:00:00 PM

 Lab ID:
 2204658-007
 Matrix: AQUEOUS
 Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL Q	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				An	alyst: JMT
Chloride	1900	50	* mg/L	100 4/21/2022 5:54:26	PM R87438
EPA METHOD 8021B: VOLATILES				An	alyst: NSB
Benzene	ND	1.0	μg/L	1 4/18/2022 11:48:1	4 PM R87320
Toluene	ND	1.0	μg/L	1 4/18/2022 11:48:1	4 PM R87320
Ethylbenzene	ND	1.0	μg/L	1 4/18/2022 11:48:1	4 PM R87320
Xylenes, Total	ND	2.0	μg/L	1 4/18/2022 11:48:1	4 PM R87320
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1 4/18/2022 11:48:1	4 PM R87320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 12

Date Reported: 4/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: GW-12574706-041322-CN-MW

 Project:
 Bettis
 Collection Date: 4/13/2022 3:00:00 PM

 Lab ID:
 2204658-008
 Matrix: AQUEOUS
 Received Date: 4/14/2022 8:00:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	62	5.0	mg/L	10	4/21/2022 6:06:46 PM	R87438
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	2.1	1.0	μg/L	1	4/19/2022 12:11:39 AM	R87320
Toluene	ND	1.0	μg/L	1	4/19/2022 12:11:39 AM	R87320
Ethylbenzene	ND	1.0	μg/L	1	4/19/2022 12:11:39 AM	R87320
Xylenes, Total	ND	2.0	μg/L	1	4/19/2022 12:11:39 AM	R87320
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	4/19/2022 12:11:39 AM	R87320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 12

Date Reported: 4/25/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: GW-12574706-041322-CN-DUP

Project: Bettis **Collection Date:** 4/13/2022

Lab ID: 2204658-009 **Matrix:** AQUEOUS **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	710	50	* mg/L	100	4/21/2022 6:43:47 PM	R87438
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	1.0	μg/L	1	4/19/2022 12:35:12 AM	R87320
Toluene	ND	1.0	μg/L	1	4/19/2022 12:35:12 AM	R87320
Ethylbenzene	ND	1.0	μg/L	1	4/19/2022 12:35:12 AM	R87320
Xylenes, Total	ND	2.0	μg/L	1	4/19/2022 12:35:12 AM	R87320
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	4/19/2022 12:35:12 AM	R87320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 12

Lab Order **2204658**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/25/2022

CLIENT: GHD Client Sample ID: Trip Blank

Project: Bettis **Collection Date:**

Lab ID: 2204658-010 **Matrix:** TRIP BLANK **Received Date:** 4/14/2022 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	1.0	μg/L	1	4/19/2022 12:58:40 AM	/ R87320
Toluene	ND	1.0	μg/L	1	4/19/2022 12:58:40 AM	/ R87320
Ethylbenzene	ND	1.0	μg/L	1	4/19/2022 12:58:40 AM	/ R87320
Xylenes, Total	ND	2.0	μg/L	1	4/19/2022 12:58:40 AM	/ R87320
Surr: 4-Bromofluorobenzene	98.5	70-130	%Rec	1	4/19/2022 12:58:40 AM	/ R87320

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204658**

25-Apr-22

Client: GHD Project: Bettis

Sample ID: MB SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R87438 RunNo: 87438

Prep Date: Analysis Date: 4/21/2022 SeqNo: 3093499 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 0.50

Sample ID: LCS SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R87438 RunNo: 87438

Prep Date: Analysis Date: 4/21/2022 SeqNo: 3093500 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 4.5 0.50 5.000 0 90.5 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix interference

B Analyte detected in the associated Method Blank

E Estimated value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 11 of 12

Hall Environmental Analysis Laboratory, Inc.

WO#: **2204658**

25-Apr-22

Client: GHD Project: Bettis

Sample ID: mb-5 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBW Batch ID: R87320 RunNo: 87320

Prep Date: Analysis Date: 4/18/2022 SeqNo: 3088026 Units: µg/L SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte PQL LowLimit HighLimit Qual Benzene ND 1.0 Toluene ND 1.0 ND Ethylbenzene 1.0 Xylenes, Total ND 2.0 Surr: 4-Bromofluorobenzene 20 20.00 100 70 130

Sample ID: 100ng btex Ics SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSW Batch ID: R87320 RunNo: 87320 Prep Date: Analysis Date: 4/18/2022 SeqNo: 3088027 Units: µg/L Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 20.00 17 1.0 n 85.3 80 120 Benzene Toluene 18 1.0 20.00 0 89.2 80 120 0 91.1 80 18 1.0 20.00 120 Ethylbenzene 55 0 91.1 Xylenes, Total 2.0 60.00 80 120 Surr: 4-Bromofluorobenzene 21 20.00 103 70 130

Sample ID: 2204658-001ams SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: GW-12574706-04132 Batch ID: R87320 RunNo: 87320 Prep Date: Analysis Date: 4/18/2022 SeqNo: 3088029 Units: µg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.8900 86.2 80 18 1.0 20.00 120 Benzene Toluene 18 20.00 90.8 80 120 1.0 0 20.00 0 91.5 80 120 Ethylbenzene 18 1.0 Xylenes, Total 55 2.0 60.00 0 92.0 80 120 Surr: 4-Bromofluorobenzene 21 20.00 103 70 130

TestCode: EPA Method 8021B: Volatiles Sample ID: 2204658-001amsd SampType: MSD GW-12574706-04132 Client ID: Batch ID: R87320 RunNo: 87320 Prep Date: Analysis Date: 4/18/2022 SeqNo: 3088030 Units: µg/L SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual 18 1.0 20.00 0.8900 85.2 80 120 1.09 20 Benzene Toluene 18 1.0 20.00 0 90.3 80 120 0.641 20 Ethylbenzene 19 1.0 20.00 0 92.6 80 120 1.26 20 Xylenes, Total 56 2.0 60.00 0 93.3 80 120 1.39 20 Surr: 4-Bromofluorobenzene 21 20.00 105 70 130 0 0

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix interference
- B Analyte detected in the associated Method Blank
- E Estimated value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 12

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

A 100 march 100	NAME OF TAXABLE PARTY.
	ENVIRONMENTAL
100	ANALYSIS
	LABORATORY

Client Name:	GHD		Worl	Order Nun	nber: 220	4658		RcptNe	o: 1
Received By:	Sean Liv	ingston	4/14/20	022 8:00:00	AM		5-4	not	
Completed By:	Sean Liv	ingston	4/14/20	022 10:46:1	6 AM		<	not	
Reviewed By: /	A 4-1	4-77					J~-L	170t	
Chain of Cus	<u>tody</u>								
1. Is Chain of Co	ustody com	olete?			Yes	✓	No 🗌	Not Present	
2. How was the	sample deli	vered?			Cou	rier			
Log In									
3. Was an attem	pt made to	cool the samp	oles?		Yes	✓	No 🗌	NA 🗌	
4. Were all samp	oles received	d at a tempera	ature of >0° C	to 6.0°C	Yes	V	No 🗌	NA 🗌	
5. Sample(s) in p	oroper conta	iner(s)?			Yes	V	No 🗌		
							_		
6. Sufficient sam					Yes	✓	No 🗌		
7. Are samples (operly preserv	ed?	Yes	V	No ∐		
8. Was preservat	ive added to	bottles?			Yes		No 🗹	NA L	
9. Received at lea	ast 1 vial wi	h headspace	<1/4" for AQ \	/OA?	Yes	v	No 🗌	NA 🗆	14/14/2
10. Were any sam	ple contain	ers received b	roken?		Yes		No 🗸	#of preserved	0 111 1/2
11. Does paperwo	rk match ho	ttle labels?			Yes		Na 🗆	bottles checked	I
(Note discrepa)		Yes		No 📙	for pH:	r >12 unless noted)
2. Are matrices c					Yes	V	No 🗌	Adjusted?	
3. Is it clear what			?		Yes	✓	No 🗌		
 Were all holdin (If no, notify cu 					Yes	V	No 📙	Checked by:	
Special Handli									
15. Was client not			with this order	,	V		D	🗖	
		iscrepancies (with this order	r	Yes		No 🗌	NA 🗸	-
Person I By Who	Opening conducts			Date	P.			_	
Regardir	outuerse.		WWW.Elseway.com	Via:	eMa	all [_]	Phone Fax	☐ In Person	
	structions:	The second secon		E-Table 1024 Sections	SOAT DEW VISITION OF MET GOING			ANNO SERVICE OF CHEST PROPERTY OF THE SERVICE OF TH	
16. Additional rem	narks:	- V Mary	THE PERSON NAMED IN	11 (00)	Marine (Prince)	14 2014		-	
17. <u>Cooler Inform</u>									
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Da	ate	Signed By		
1	1.0	Good		15.00	Jour De		Oigiled by		
2	0.8	Good		1			***	-	

\approx
e
6
0
ã
=
9
-
3
,a
00
5
90
• 1
K.s.
10
1
V-
13
0
12
4
-
-
S.
ů,
Ci.
7
Δ

Chain-of-Custody Record	Turn-Around Time:	HALL ENVIDONMENTAL			
Client: GHD	☑ Standard □ Rush	HALL ENVIRONMENTAL ANALYSIS LABORATORY			
	Project Name:				
Mailing Address: on F:Le	Bettis	www.hallenvironmental.com			
	Project #:	4901 Hawkins NE - Albuquerque, NM 87109			
Phone #: 505 269 0086	12574706	Tel. 505-345-3975 Fax 505-345-4107 Analysis Request			
email or Fax# Christine Morther so and un	Project Manager:				
QA/QC Package: □ Standard □ Level 4 (Full Validation)	Christine Mathews.	BTEX / MTBE / TMB's (8021) TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) Total Coliform (Present/Absent) \$\text{316}\$ \text{Alory}\text{A} \text{Alory}\text{A}			
Accreditation: □ Az Compliance	Sampler: CV	TMB' 0 / DR 8082 8082 (8270 (8270 ())))))))))))))))))			
□ NELAC □ Other	On Ice: ☑ Yes ☐ No	RO / Nor 8 3°, N (Pre			
□ EDD (Type)	# of Coolers: 2 Cooler Temp(including CF): 1.0 ±0=1.0 (°C)	D(G) D(G) D(G) D(G) D(G) D(G) D(G) D(G)			
	Cooler Temp(including CF): $0 \pm 0 = 1.3$ (°C)	(/ MTBE / 8015D(GRC Pesticides, (Method 5C (Method 5C s by 8310 o s by 8310 o a 8 Metals Br, NO ₃ , (VOA) (Semi-VOA Coliform (F			
Date Time Matrix Sample Name	Container Preservative HEAL No. Type and # Type	BTEX / MTBE / TMB TPH:8015D(GRO / DR 8081 Pesticides/8082 EDB (Method 504.1) PAHs by 8310 or 827(RCRA 8 Metals CI, F, Br, NO ₃ , NO ₂ , 8260 (VOA) Total Coliform (Preser			
4-13-22 1000 W GW 12574406-091322-NW-MW-1	various utel 001				
1 1030 40 N57411000413716N-MW	3 1 1 007				
1100 Ga 1254 406-041322-CN-MU	007				
1700 GW-15574106-041327-CN-MW-					
1230 Gu 15574700-041321-NV-MW-9	005				
1300 Gw 12574706-041322-(N-MW-9					
1400 Gw 12574706-04-322-12-12-12-1					
1 1500 Gw 125440C-1041322-(N-MW-1)					
V - C/W 12574706-041322-(N-MED)U					
Trip Blank	010				
ID 04/14/2022					
Date: Time: Relinquished by:	1/1	Remarks:			
Dale: / Time: Relinquished by:	U	Pag			
Date: Time: Relinquished by: Han Goo all Control Control	Szz com 4/14/22 8:00	Page 46 of			



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

November 22, 2022

Christine Mathews

GHD

6121 Indian School Road, NE #200

Albuquerque, NM 87110 TEL: (505) 884-0672

FAX:

RE: A7 Bettis OrderNo.: 2211743

Dear Christine Mathews:

Hall Environmental Analysis Laboratory received 13 sample(s) on 11/12/2022 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **2211743**Date Reported: **11/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: MW-1

 Project:
 A7 Bettis
 Collection Date: 11/8/2022 4:15:00 PM

 Lab ID:
 2211743-001
 Matrix: AQUEOUS
 Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF 1	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	210	50	mg/L	100	11/18/2022 3:25:21 PM	R92723
EPA METHOD 8260: VOLATILES SHORT LIST					Analys	t: CCM
Benzene	1.4	1.0	μg/L	1	11/14/2022 10:58:00 P	M R92552
Toluene	ND	1.0	μg/L	1	11/14/2022 10:58:00 P	M R92552
Ethylbenzene	ND	1.0	μg/L	1	11/14/2022 10:58:00 P	M R92552
Xylenes, Total	ND	1.5	μg/L	1	11/14/2022 10:58:00 P	M R92552
Surr: 1,2-Dichloroethane-d4	94.2	70-130	%Rec	1	11/14/2022 10:58:00 P	M R92552
Surr: 4-Bromofluorobenzene	94.5	70-130	%Rec	1	11/14/2022 10:58:00 P	M R92552
Surr: Dibromofluoromethane	97.7	70-130	%Rec	1	11/14/2022 10:58:00 P	M R92552
Surr: Toluene-d8	88.9	70-130	%Rec	1	11/14/2022 10:58:00 P	M R92552

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 17

Date Reported: 11/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: MW-2

 Project:
 A7 Bettis
 Collection Date: 11/8/2022 10:30:00 AM

 Lab ID:
 2211743-002
 Matrix: AQUEOUS
 Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF 1	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	200	50	mg/L	100	11/18/2022 4:42:31 PM	R92723
EPA METHOD 8260: VOLATILES SHORT LIST					Analys	t: CCM
Benzene	ND	1.0	μg/L	1	11/14/2022 11:21:00 P	M R92552
Toluene	ND	1.0	μg/L	1	11/14/2022 11:21:00 P	M R92552
Ethylbenzene	ND	1.0	μg/L	1	11/14/2022 11:21:00 P	M R92552
Xylenes, Total	ND	1.5	μg/L	1	11/14/2022 11:21:00 P	M R92552
Surr: 1,2-Dichloroethane-d4	93.0	70-130	%Rec	1	11/14/2022 11:21:00 P	M R92552
Surr: 4-Bromofluorobenzene	94.6	70-130	%Rec	1	11/14/2022 11:21:00 P	M R92552
Surr: Dibromofluoromethane	98.0	70-130	%Rec	1	11/14/2022 11:21:00 P	M R92552
Surr: Toluene-d8	87.7	70-130	%Rec	1	11/14/2022 11:21:00 P	M R92552

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- RL Reporting Limit

Sample pH Not In Range
Reporting Limit Page 2 of 17

Date Reported: 11/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: MW-3

 Project:
 A7 Bettis
 Collection Date: 11/8/2022 4:35:00 PM

 Lab ID:
 2211743-003
 Matrix: AQUEOUS
 Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL (Qual Units	DF Date Ana	lyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	JMT
Chloride	280	50	* mg/L	100 11/18/2022	2 5:08:14 PM	R92723
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst:	CCM
Benzene	1.1	1.0	μg/L	1 11/14/2022	2 11:44:00 PM	R92552
Toluene	ND	1.0	μg/L	1 11/14/2022	2 11:44:00 PM	R92552
Ethylbenzene	ND	1.0	μg/L	1 11/14/2022	2 11:44:00 PM	R92552
Xylenes, Total	ND	1.5	μg/L	1 11/14/2022	2 11:44:00 PM	R92552
Surr: 1,2-Dichloroethane-d4	92.9	70-130	%Rec	1 11/14/2022	2 11:44:00 PM	R92552
Surr: 4-Bromofluorobenzene	95.5	70-130	%Rec	1 11/14/2022	2 11:44:00 PM	R92552
Surr: Dibromofluoromethane	98.2	70-130	%Rec	1 11/14/2022	2 11:44:00 PM	R92552
Surr: Toluene-d8	88.7	70-130	%Rec	1 11/14/2022	2 11:44:00 PM	R92552

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 17

Lab Order **2211743**Date Reported: **11/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: MW-4

 Project:
 A7 Bettis
 Collection Date: 11/8/2022 1:40:00 PM

 Lab ID:
 2211743-004
 Matrix: AQUEOUS
 Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL Qual Units			Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: JMT
Chloride	140	5.0	mg/L	10	11/18/2022 5:21:07 PM	N R92723
EPA METHOD 8260: VOLATILES SHORT LIST					Analys	st: CCM
Benzene	ND	1.0	μg/L	1	11/15/2022 12:07:00 A	M R92552
Toluene	ND	1.0	μg/L	1	11/15/2022 12:07:00 A	M R92552
Ethylbenzene	ND	1.0	μg/L	1	11/15/2022 12:07:00 A	M R92552
Xylenes, Total	ND	1.5	μg/L	1	11/15/2022 12:07:00 A	M R92552
Surr: 1,2-Dichloroethane-d4	95.4	70-130	%Rec	1	11/15/2022 12:07:00 A	M R92552
Surr: 4-Bromofluorobenzene	92.3	70-130	%Rec	1	11/15/2022 12:07:00 A	M R92552
Surr: Dibromofluoromethane	101	70-130	%Rec	1	11/15/2022 12:07:00 A	M R92552
Surr: Toluene-d8	89.0	70-130	%Rec	1	11/15/2022 12:07:00 A	M R92552

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
 J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 17

Date Reported: 11/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: MW-5

 Project:
 A7 Bettis
 Collection Date: 11/8/2022 12:55:00 PM

 Lab ID:
 2211743-005
 Matrix: AQUEOUS
 Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Batch	
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	110	5.0	mg/L	10	11/18/2022 5:46:50 PM	R92723
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	11/15/2022 2:19:00 PM	SL92622
Toluene	ND	1.0	μg/L	1	11/15/2022 2:19:00 PM	SL92622
Ethylbenzene	ND	1.0	μg/L	1	11/15/2022 2:19:00 PM	SL92622
Xylenes, Total	ND	1.5	μg/L	1	11/15/2022 2:19:00 PM	SL92622
Surr: 1,2-Dichloroethane-d4	91.9	70-130	%Rec	1	11/15/2022 2:19:00 PM	SL92622
Surr: 4-Bromofluorobenzene	87.1	70-130	%Rec	1	11/15/2022 2:19:00 PM	SL92622
Surr: Dibromofluoromethane	92.6	70-130	%Rec	1	11/15/2022 2:19:00 PM	SL92622
Surr: Toluene-d8	86.2	70-130	%Rec	1	11/15/2022 2:19:00 PM	SL92622

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
 J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 17

Date Reported: 11/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: MW-6

 Project:
 A7 Bettis
 Collection Date: 11/8/2022 4:00:00 PM

 Lab ID:
 2211743-006
 Matrix: AQUEOUS
 Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Batch	
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	180	50	mg/L	100	11/18/2022 6:51:16 PM	R92723
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	11/15/2022 2:42:00 PM	SL92622
Toluene	ND	1.0	μg/L	1	11/15/2022 2:42:00 PM	SL92622
Ethylbenzene	ND	1.0	μg/L	1	11/15/2022 2:42:00 PM	SL92622
Xylenes, Total	ND	1.5	μg/L	1	11/15/2022 2:42:00 PM	SL92622
Surr: 1,2-Dichloroethane-d4	90.3	70-130	%Rec	1	11/15/2022 2:42:00 PM	SL92622
Surr: 4-Bromofluorobenzene	93.4	70-130	%Rec	1	11/15/2022 2:42:00 PM	SL92622
Surr: Dibromofluoromethane	92.7	70-130	%Rec	1	11/15/2022 2:42:00 PM	SL92622
Surr: Toluene-d8	89.1	70-130	%Rec	1	11/15/2022 2:42:00 PM	SL92622

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
 P Sample pH Not In Range
- RL Reporting Limit
- Page 6 of 17

Date Reported: 11/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: MW-7

Project: A7 Bettis **Collection Date:** 11/8/2022 12:00:00 PM Lab ID: 2211743-007 Matrix: AQUEOUS Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	Result RL Qual Units			DF Date Analyzed		
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ	
Chloride	370	50 *	mg/L	100	11/18/2022 7:17:02 PM	R92723	
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	CCM	
Benzene	ND	1.0	μg/L	1	11/15/2022 3:05:00 PM	SL92622	
Toluene	ND	1.0	μg/L	1	11/15/2022 3:05:00 PM	SL92622	
Ethylbenzene	ND	1.0	μg/L	1	11/15/2022 3:05:00 PM	SL92622	
Xylenes, Total	ND	1.5	μg/L	1	11/15/2022 3:05:00 PM	SL92622	
Surr: 1,2-Dichloroethane-d4	87.8	70-130	%Rec	1	11/15/2022 3:05:00 PM	SL92622	
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec	1	11/15/2022 3:05:00 PM	SL92622	
Surr: Dibromofluoromethane	90.2	70-130	%Rec	1	11/15/2022 3:05:00 PM	SL92622	
Surr: Toluene-d8	87.1	70-130	%Rec	1	11/15/2022 3:05:00 PM	SL92622	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits Sample pH Not In Range
- RL Reporting Limit

Page 7 of 17

Lab Order **2211743**

Date Reported: 11/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: MW-8

 Project:
 A7 Bettis
 Collection Date: 11/8/2022 2:15:00 PM

 Lab ID:
 2211743-008
 Matrix: AQUEOUS
 Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Batch	
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	150	5.0	mg/L	10	11/18/2022 7:29:53 PM	R92723
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	11/15/2022 3:28:00 PM	SL92622
Toluene	ND	1.0	μg/L	1	11/15/2022 3:28:00 PM	SL92622
Ethylbenzene	ND	1.0	μg/L	1	11/15/2022 3:28:00 PM	SL92622
Xylenes, Total	ND	1.5	μg/L	1	11/15/2022 3:28:00 PM	SL92622
Surr: 1,2-Dichloroethane-d4	91.3	70-130	%Rec	1	11/15/2022 3:28:00 PM	SL92622
Surr: 4-Bromofluorobenzene	93.3	70-130	%Rec	1	11/15/2022 3:28:00 PM	SL92622
Surr: Dibromofluoromethane	94.1	70-130	%Rec	1	11/15/2022 3:28:00 PM	SL92622
Surr: Toluene-d8	87.0	70-130	%Rec	1	11/15/2022 3:28:00 PM	SL92622

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
 J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 17

Date Reported: 11/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: MW-9

 Project:
 A7 Bettis
 Collection Date: 11/8/2022 3:15:00 PM

 Lab ID:
 2211743-009
 Matrix: AQUEOUS
 Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	620	50	* mg/L	100	11/18/2022 8:08:28 PM	R92723
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	11/15/2022 3:51:00 PM	SL92622
Toluene	ND	1.0	μg/L	1	11/15/2022 3:51:00 PM	SL92622
Ethylbenzene	ND	1.0	μg/L	1	11/15/2022 3:51:00 PM	SL92622
Xylenes, Total	ND	1.5	μg/L	1	11/15/2022 3:51:00 PM	SL92622
Surr: 1,2-Dichloroethane-d4	91.1	70-130	%Rec	1	11/15/2022 3:51:00 PM	SL92622
Surr: 4-Bromofluorobenzene	90.8	70-130	%Rec	1	11/15/2022 3:51:00 PM	SL92622
Surr: Dibromofluoromethane	91.1	70-130	%Rec	1	11/15/2022 3:51:00 PM	SL92622
Surr: Toluene-d8	91.0	70-130	%Rec	1	11/15/2022 3:51:00 PM	SL92622

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
 J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 17

Date Reported: 11/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: MW-10

 Project:
 A7 Bettis
 Collection Date: 11/8/2022 4:55:00 PM

 Lab ID:
 2211743-010
 Matrix: AQUEOUS
 Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	1800	50	* mg/L	100) 11/18/2022 10:42:49 PN	1 A92723
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: CCM
Benzene	ND	1.0	μg/L	1	11/15/2022 4:14:00 PM	SL92622
Toluene	ND	1.0	μg/L	1	11/15/2022 4:14:00 PM	SL92622
Ethylbenzene	ND	1.0	μg/L	1	11/15/2022 4:14:00 PM	SL92622
Xylenes, Total	ND	1.5	μg/L	1	11/15/2022 4:14:00 PM	SL92622
Surr: 1,2-Dichloroethane-d4	90.1	70-130	%Rec	1	11/15/2022 4:14:00 PM	SL92622
Surr: 4-Bromofluorobenzene	93.8	70-130	%Rec	1	11/15/2022 4:14:00 PM	SL92622
Surr: Dibromofluoromethane	92.4	70-130	%Rec	1	11/15/2022 4:14:00 PM	SL92622
Surr: Toluene-d8	88.0	70-130	%Rec	1	11/15/2022 4:14:00 PM	SL92622

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
 J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 17

Date Reported: 11/22/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: MW-11

 Project:
 A7 Bettis
 Collection Date: 11/8/2022 2:55:00 PM

 Lab ID:
 2211743-011
 Matrix: AQUEOUS
 Received Date: 11/12/2022 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Batch	
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	60	5.0	mg/L	10	11/18/2022 10:55:41 PM	1 A92723
EPA METHOD 8260: VOLATILES SHORT LIST					Analyst	: JR
Benzene	2.0	1.0	μg/L	1	11/15/2022 8:44:32 PM	SL92599
Toluene	ND	1.0	μg/L	1	11/15/2022 8:44:32 PM	SL92599
Ethylbenzene	ND	1.0	μg/L	1	11/15/2022 8:44:32 PM	SL92599
Xylenes, Total	ND	1.5	μg/L	1	11/15/2022 8:44:32 PM	SL92599
Surr: 1,2-Dichloroethane-d4	108	70-130	%Rec	1	11/15/2022 8:44:32 PM	SL92599
Surr: 4-Bromofluorobenzene	91.0	70-130	%Rec	1	11/15/2022 8:44:32 PM	SL92599
Surr: Dibromofluoromethane	103	70-130	%Rec	1	11/15/2022 8:44:32 PM	SL92599
Surr: Toluene-d8	93.7	70-130	%Rec	1	11/15/2022 8:44:32 PM	SL92599

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 11 of 17

Lab Order **2211743**Date Reported: **11/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT:GHDClient Sample ID: Dup-01Project:A7 BettisCollection Date: 11/8/2022

Lab ID: 2211743-012 **Matrix:** AQUEOUS **Received Date:** 11/12/2022 8:00:00 AM

Analyses	Result	RL Q	RL Qual Units		DF Date Analyzed		
EPA METHOD 300.0: ANIONS					Analys	:: JMT	
Chloride	1800	50	* mg/L	100	11/19/2022	A92723	
EPA METHOD 8260: VOLATILES SHORT LIST					Analys	:: JR	
Benzene	ND	1.0	μg/L	1	11/15/2022 9:12:55 PM	SL92599	
Toluene	ND	1.0	μg/L	1	11/15/2022 9:12:55 PM	SL92599	
Ethylbenzene	ND	1.0	μg/L	1	11/15/2022 9:12:55 PM	SL92599	
Xylenes, Total	ND	1.5	μg/L	1	11/15/2022 9:12:55 PM	SL92599	
Surr: 1,2-Dichloroethane-d4	112	70-130	%Rec	1	11/15/2022 9:12:55 PM	SL92599	
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	11/15/2022 9:12:55 PM	SL92599	
Surr: Dibromofluoromethane	105	70-130	%Rec	1	11/15/2022 9:12:55 PM	SL92599	
Surr: Toluene-d8	93.8	70-130	%Rec	1	11/15/2022 9:12:55 PM	SL92599	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 17

Lab Order **2211743**Date Reported: **11/22/2022**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GHD Client Sample ID: Trip Blank

Project: A7 Bettis Collection Date:

Lab ID: 2211743-013 **Matrix:** TRIP BLANK **Received Date:** 11/12/2022 8:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8260: VOLATILES SHORT LIST					Analy	st: JR
Benzene	ND	1.0	μg/L	1	11/16/2022 12:03:34 A	M SL92599
Toluene	ND	1.0	μg/L	1	11/16/2022 12:03:34 A	AM SL92599
Ethylbenzene	ND	1.0	μg/L	1	11/16/2022 12:03:34 A	AM SL92599
Xylenes, Total	ND	1.5	μg/L	1	11/16/2022 12:03:34 A	AM SL92599
Surr: 1,2-Dichloroethane-d4	111	70-130	%Rec	1	11/16/2022 12:03:34 A	AM SL92599
Surr: 4-Bromofluorobenzene	97.7	70-130	%Rec	1	11/16/2022 12:03:34 A	AM SL92599
Surr: Dibromofluoromethane	106	70-130	%Rec	1	11/16/2022 12:03:34 A	AM SL92599
Surr: Toluene-d8	95.4	70-130	%Rec	1	11/16/2022 12:03:34 A	AM SL92599

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 13 of 17

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211743 22-Nov-22**

Client: GHD
Project: A7 Bettis

Sample ID: MB SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R92723 RunNo: 92723

Prep Date: Analysis Date: 11/18/2022 SeqNo: 3336909 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 0.50

Sample ID: LCS SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: **R92723** RunNo: 92723 Prep Date: Analysis Date: 11/18/2022 SeqNo: 3336910 Units: mg/L %RPD **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit Qual Chloride 4.8 0.50 5.000 96.1 110

Sample ID: MB SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: A92723 RunNo: 92723

Prep Date: Analysis Date: 11/18/2022 SeqNo: 3336978 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 0.50

Sample ID: LCS SampType: Ics TestCode: EPA Method 300.0: Anions
Client ID: LCSW Batch ID: A92723 RunNo: 92723

Prep Date: Analysis Date: 11/18/2022 SeqNo: 3336979 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 4.7 0.50 5.000 0 94.0 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 14 of 17

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211743 22-Nov-22**

Client: GHD
Project: A7 Bettis

Sample ID: 100ng Ics	SampT	ype: LC	S	TestCode: EPA Method 8260: Volatiles Short List						
Client ID: LCSW	Batch	n ID: R9 2	2552	F	RunNo: 92	2552				
Prep Date:	Analysis D)ate: 11	/14/2022	SeqNo: 3328886			Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	105	70	130			
Toluene	21	1.0	20.00	0	104	70	130			
Surr: 1,2-Dichloroethane-d4	9.1		10.00		90.9	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		96.2	70	130			
Surr: Dibromofluoromethane	9.3		10.00		93.3	70	130			
Surr: Toluene-d8	9.0		10.00		89.5	70	130			

Sample ID: mb	Samp1	ype: MB	BLK	Tes	tCode: EF	PA Method	8260: Volatile	s Short Li	st	
Client ID: PBW	Batcl	n ID: R9 2	2552	F	RunNo: 92	2552				
Prep Date:	Analysis D)ate: 11	/14/2022	5	SeqNo: 33	328887	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.4		10.00		94.4	70	130			
Surr: 4-Bromofluorobenzene	9.2		10.00		92.5	70	130			
Surr: Dibromofluoromethane	9.5		10.00		94.7	70	130			
Surr: Toluene-d8	8.8		10.00		88.3	70	130			

Sample ID: 100ng lcs	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8260: Volatile	s Short Li	st	
Client ID: LCSW	Batcl	n ID: SL	92599	F	RunNo: 92	2599				
Prep Date:	Analysis [Date: 11	/15/2022	5	SeqNo: 3	329961	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	104	70	130			
Toluene	18	1.0	20.00	0	90.6	70	130			
Surr: 1,2-Dichloroethane-d4	9.1		10.00		91.1	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		96.2	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.4		10.00		94.2	70	130			

Sample ID: mb	SampT	уре: МВ	LK	Tes	tCode: EF	PA Method	8260: Volatile	s Short Li	st	
Client ID: PBW	Batch	ID: SL	92599	F	RunNo: 92	2599				
Prep Date:	Analysis D	ate: 11	/15/2022	9	SeqNo: 3	329969	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 15 of 17

Hall Environmental Analysis Laboratory, Inc.

WO#: **2211743 22-Nov-22**

Client: GHD
Project: A7 Bettis

Sample ID: mb	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8260: Volatile	s Short Li	st	
Client ID: PBW	Batcl	h ID: SL	92599	F	RunNo: 92	2599				
Prep Date:	Analysis [Date: 11	/15/2022	5	SeqNo: 33	329969	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		108	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		100	70	130			
Surr: Dibromofluoromethane	11		10.00		108	70	130			
Surr: Toluene-d8	9.5		10.00		94.9	70	130			

Sample ID: 100ng Ics2	Samp	Type: LC	S	Tes	stCode: EF	PA Method	8260: Volatile	s Short Li	st	
Client ID: LCSW	Batcl	h ID: SL	92599	F	RunNo: 92	2599				
Prep Date:	Analysis [Date: 11	/15/2022	;	SeqNo: 33	329983	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	100	70	130		_	
Toluene	18	1.0	20.00	0	87.6	70	130			
Surr: 1,2-Dichloroethane-d4	8.7		10.00		87.4	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		93.3	70	130			
Surr: Dibromofluoromethane	10		10.00		104	70	130			
Surr: Toluene-d8	9.1		10.00		91.4	70	130			

Sample ID: mb2	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8260: Volatile	s Short Li	st	
Client ID: PBW	Batch	n ID: SL	92599	F	RunNo: 92	2599				
Prep Date:	Analysis D	Date: 11	/15/2022	5	SeqNo: 33	329985	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	11		10.00		109	70	130			
Surr: 4-Bromofluorobenzene	9.6		10.00		95.5	70	130			
Surr: Dibromofluoromethane	11		10.00		107	70	130			
Surr: Toluene-d8	9.6		10.00		95.6	70	130			

Sample ID: 100ng lcs4	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8260: Volatile	s Short Li	st	
Client ID: LCSW	Batch	ID: SL	92622	F	RunNo: 92	2622				
Prep Date:	Analysis D	ate: 11	/15/2022	9	SeqNo: 33	331454	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	70	130			
Toluene	20	1.0	20.00	0	99.6	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 16 of 17

Hall Environmental Analysis Laboratory, Inc.

2211743 22-Nov-22

WO#:

Client: GHD **Project:** A7 Bettis

Sample ID: 100ng lcs4	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8260: Volatile	s Short Li	st	
Client ID: LCSW	Batch	n ID: SL	92622	F	RunNo: 92	2622				
Prep Date:	Analysis D)ate: 11	/15/2022	9	SeqNo: 33	331454	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	8.5		10.00		84.9	70	130			
Surr: 4-Bromofluorobenzene	9.3		10.00		93.5	70	130			
Surr: Dibromofluoromethane	8.8		10.00		88.3	70	130			
Surr: Toluene-d8	9.3		10.00		93.1	70	130			

Sample ID: mb	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8260: Volatile	s Short Li	st	
Client ID: PBW	Batch	n ID: SL	92622	F	RunNo: 92	2622				
Prep Date:	Analysis D	Date: 11	/15/2022	;	SeqNo: 33	331470	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	1.5								
Surr: 1,2-Dichloroethane-d4	9.1		10.00		91.3	70	130			
Surr: 4-Bromofluorobenzene	9.5		10.00		94.7	70	130			
Surr: Dibromofluoromethane	9.2		10.00		92.1	70	130			
Surr: Toluene-d8	8.8		10.00		88.3	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 17 of 17



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 2/12/2024 11:53:37 AM

Client	Name:	GHD		Work	Order Num	ber: 2211743		RcptNo	: 1
Receiv	ed By:	Kasandra	Jimena Garo	ia 11/12/2	022 8:00:0	O AM	M		
Comple	eted By:	Kasandra	Jimena Gard	ia 11/12/2	022 8:33:3	2 AM	4ft- 14ft-		
Review	ved By: 5	er ul	14/22				′/		
<u>Chain</u>	of Cus	tody							
1. Is C	hain of Cu	stody comp	ete?			Yes 🗹	No 🗌	Not Present	
2. How	was the	sample deliv	ered?			Courier			
<u>Log I</u>	<u>n</u>								
3. Was	an attem	pt made to o	ool the sampl	les?		Yes 🗹	No 🗌	NA 🗌	
4. Were	e all samp	les received	at a tempera	ture of >0° C	to 6.0°C	Yes 🗹	No 🗌	na 🗆	
5. Sam	nple(s) in p	proper contai	ner(s)?			Yes 🗹	No 🗌		
6. Suffi	cient sam	ple volume f	or indicated te	est(s)?		Yes 🗹	No 🗌		
7. Are s	samples (except VOA	and ONG) pro	perly preserve	ed?	Yes 🗸	No 🗌		
8. Was	preservat	ive added to	bottles?			Yes \square	No 🗹	NA 🗌	
9. Rece	eived at le	ast 1 vial wit	h headspace	<1/4" for AQ V	/OA?	Yes 🗹	No 🗌	na 🗆	
10. Wer	e any san	nple containe	ers received b	roken?		Yes 🗀	No 🗹	# of preserved	
		rk match bot	tle labels? in of custody	,		Yes 🗹	No 🗆	bottles checked for pH:	r >12 unless noted)
				n of Custody?		Yes 🗹	No 🗌	Adjusted?	12 0,000 110100)
			ere requested	•		Yes 🗸	No 🗌		
		ng times able				Yes 🗹	No 🗆	Checked by:	Jun/17/5
		ing (if app	uthorization.)						
				with this order?	,	Yes 🗌	No 🗍	na 🗹	
		Notified:			Date				
	By Who	m:			Via:	,	Phone Fax	☐ In Person	
	Regardi	ng:							
	Client In	structions:							
16. Add	ditional rer	narks:							
	oler <u>Infor</u>			I					
(Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By		
1		0.8	Good	Yes	1		1	1	

			stody Record	Turn-A	Around [*]	Time:	All the second				Н	AL	L	ΕN	IV	IR	OI	NM	IEI	TI	AL	
Client:	(2H))		⊠ Sta	andard_	□ Rush_					A	NA	L	YS	IS	L	AB	O	RA	TO	R	(
				Projec	t Name	11-	7. 7.			NAME OF THE PERSON OF	٧	/ww.	halle	envir	onn	nent	al.co	m				
Mailing /	Address	612	Indian School	- A-	7-B1	ett.5			490)1 Ha	awkir	s NE	≣ -	Albu	ique	rque	e, NN	/ 1 871	109			
Roads	VE,5	TE 20	O , Albequelque, NM 87/11	Projec	xt #: \	75747	-06		Te	l. 50	5-34	5-397		-	_	-		4107	es boer	0.000	rigin.	
Dhone t	500	260	-0088										2000	-	SIS	keq	uest				-	
email or	Fax#: (りべらち	ne. Mathews Grand Con	Projec	t Mana	ger: Christi	ne. Mathews Gight	뒨	8		-			SO ₄	7		ent					
QA/QC F	ackage:			1 ()	hrib	Fine 1	nathers	TMB's (8021)) Mi	SCB's		SIMS		o 4	100		Coliform (Present/Absent)		- 11			
₩ Stan			☐ Level 4 (Full Validation)				on Kozik	MB.	PR	82		27		- 1	+		seu					
Accredit	(MC)	□ Az Co□ Other	mpliance	On Ice			□ No		20	08/s	90	o .8		- 1	6184	8	(Pre					1
□ EDD		0.1101			coolers:			MTBE	(G.	ge	g	33	eta	9		<u>-i</u>	Ę	liv 1		2.1		
	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Coole	r Temp	(including CF): 0.8	-0:018 (°C)	Į∑	150	esti	eth	8	8 8	m	Q	Sem	흥					1
	_		Cample Name	Conta		Preservative	HEAL No.	BTEX/	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	CI)F, Br, NO ₃ ,	8260 (VOA)	8270 (Semi-VOA)	Total C					
		Matrix	Sample Name	glass.	VU1-3	Type Vo ~~ HCL	the state of the second state of the second			~	_	_	_	1	3							
11822	1615	water	MW-1	Cony	1041-1-1	PIOSTU-none	001	-			-	-		-	_					_	+	-
	1030		MW-2		17.44.54		002	 	\square				-	+	+		1	or The	_		+	+
	1635		mw-3		147	n ika mbawa	003				_		01	1				Mir y C		and the	_ -	11
	1340		Mw-4			Same on district	004	↓			_	_	10	\parallel	+				man q	000		\dashv
	1255		MW-9			eleve you have too re-	005							\perp	_						-	
	1600		Wm - 6				900	<u> </u>						\perp	1		17.		_		-	_
	1700		MV-7		2 0000		700						_	\perp	1						_	_
	1415		MW-8	7		- 16-1 01 - 16-1	००८				\Box		er ya di	. 11	_	1	_		.11	#3311	_	
	1515		Mr - 9			FI SALKITA	009								_				11 m	0.100	_	
	16:55		Mw-10		7		010		<u> </u>				_	Ц	L							-
	1455		Mw_11		1 == 0	LAL TO MUNICIPAL ST	011	<u> </u>	<u> </u>			The								POST A		
V	NIA	V	DUP-01		T	1	013	ot				. 1	et 11	V	√	1 = 1	w de					
Date:	Time: 7:47	Relinquis	in kajel	w	ved by: www. yed by:	Via	Pate Time	Re	mark	s:	Tb	-ip	13/1	メバト	-	013	12	er Si	unt	Xe Y	7V	mlin
Date:	Time:		med by.	1/2	M.	opurier 111	2-20 8:00					- 1	ić E	i		ļu		(t	TOTAL R	1 II		



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

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

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

CONDITIONS

Action 279627

CONDITIONS

Operator:	OGRID:
REGENCY FIELD SERVICES LLC	298751
8111 Westchester Drive	Action Number:
Dallas, TX 75225	279627
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Review of the 2022 Annual Groundwater Monitoring Report for A-7 Bettis: Content Satisfactory 1. Continue to conduct semi-annual groundwater monitoring in MW-1, MW-3, MW-6, MW-7, MW-9 and MW-10 2. Conduct annual groundwater monitoring for chloride in MW-2, MW4, MW-5, MW-8 and MW-11 3. BTEX may be suspended from sampling analysis due to eight (8) consecutive results below the allowable concentrations. 4. Install a monitoring well upgradient of MW-10 to demonstrate chloride impact. 5. Submit the next annual groundwater monitoring report by April 1, 2024, and include results from new monitoring well if installation has been complete.	2/12/2024