

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Incident ID	NRM2030932103
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID	
EOG Resources, Inc.	7377	
Contact Name	Contact Telephone	
Robert Asher	575-748-4217	
Contact email	Incident # (assigned by OCD)	
bob_asher@eogresources.com	NRM2030932103	
Contact mailing address		
104 S. 4 th Street, Artesia, New Mexico		

Location of Release Source

Latitude 33.54260

Longitude <u>-103.55593</u>

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Abby BLF State #1	Site Type: Battery
Date Release: Discovered 10/20/2020	API# 30-025-38951

Unit Letter	Section	Township	Range	County
N	10	9S	33E	Lea

Surface Owner:	🛛 State	Federal	🗌 Tribal	Private (Name:	
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Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls) 172.42	Volume Recovered (bbls) 0
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release;

Pinhole developed in the bottom of a 500 BBL crude oil tank. Volume released was calculated using previous gauge reading of 6' 10" and the current reading of 1' 8 3/4".

orm C-141 1ge 2	State of New Mexico)		ID	
	Oil Conservation Divisi		Incident		NRM2030932103
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i I			Applica		
			rippilea		
Was this a major release as defined by 19.15.29.7(A) NMAC? Yes No	If YES, for what reason(s) does the released was greater than 25		ty consider this a majo	or release?	
Yes, an email notification	otice given to the OCD? By whom? 'n was sent from Robert Asher to Brad @state.nm.us on 10/20/2020 at 6:13 p	Billings, Jim G			
	Initia	al Respons	e		
The responsible	party must undertake the following actions imm	nediately unless the	y could create a safety haza	ard that would	ld result in injury
 The impacted area hat Released materials hat All free liquids and response to the second secon	ease has been stopped. as been secured to protect human healt ave been contained via the use of berm ecoverable materials have been remov d above have <u>not</u> been undertaken, exp	ns or dikes, abso ved and manage	orbent pads, or other c	ontainmer	nt devices.
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Oil Conservation Division

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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🔽 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗹 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🗹 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🗹 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🔽 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🔽 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🔽 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🔽 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 📈 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔽 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
 Field data

- $\overline{\mathbf{\nabla}}$ Data table of soil contaminant concentration data
- \checkmark Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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regulations all operators are r public health or the environm failed to adequately investiga addition, OCD acceptance of and/or regulations. Printed Name: <u>Chase S</u> Signature: <u>Chase S</u> email: <u>Chase_Settle@</u>	Settle	otifications and perform co OCD does not relieve the reat to groundwater, surfa of responsibility for compl	prrective actions for release operator of liability shuce water, human health liance with any other fease & Environmental	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only				
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Remediation Plan

<u>Remediation Plan Checklist:</u> Each of the following items must be included in the plan. Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points \checkmark Estimated volume of material to be remediated Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) Deferral Requests Only: Each of the following items must be confirmed as part of any request for deferral of remediation. Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction. Extents of contamination must be fully delineated. Contamination does not cause an imminent risk to human health, the environment, or groundwater. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. ______ _{Title:} Rep Safety & Environmental Sr Printed Name: Chase Settle Signature: <u>Chase Settl</u>e Date: 06/22/2022 email: Chase_Settle@eogresources.com Telephone: 575-748-1471 **OCD Only** _____ Date: __ Received by: Approved Approved with Attached Conditions of Approval Denied Deferral Approved ennifer Nobui Date: 07/05/2022 Signature:

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Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report. ✓ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

 \square Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Amber Griffin	Title: Rep Safety & Environmental Sr
Signature: Amber Griffin email: amber_griffin@eogresources.com	Date: 8/31/2022
email:amber_griffin@eogresources.com	Telephone: <u>575-748-1471</u>
OCD Only	
<u>OCD Olity</u>	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: <u>Jennifer Nobui</u>	Date:09/08/2022
Printed Name: Jennifer Nobui	Title: Environmental Specialist A

2135 S. Loop 250 W, Midland, TX 79703 United States www.ghd.com



Our ref: 11220612

31 August 2022

New Mexico Oil Conservation Division District 1 1625 N. French Drive Hobbs, New Mexico 88240

Re: Site Closure Report Abby BLF State #1 Release Site EOG Resources Inc. Incident ID: nRM2030932103 N-10-9S-33E, Lea County, New Mexico

1. Introduction

GHD Services Inc. (GHD), on behalf of EOG Resources (EOG), submits this Site Closure Report to the New Mexico Oil Conservation Division (NMOCD) District 1 Office. This Report provides documentation of delineation, sampling, remedial activities, and analysis in the affected area at the EOG Abby BLF State #1 Release Site (Site). The Site is located in Unit Letter N, Section 10, Township 9 South, and Range 33 East in Lea County, New Mexico (Figure 1). The GPS coordinates for the tank battery where the release occurred are 33.54260 N latitude and 103.55593 W longitude. The surface owner of the land where the release occurred is the New Mexico State Land Office (NMSLO). The EOG production facility and other Site details are depicted on Figure 2, Site Assessment: Soil Analytical Results Map.

2. Background Information

A Form C-141, Release Notification, was submitted to the NMOCD on October 28, 2020, then again on December 16, 2020. The C-141 stated that the release was discovered on October 20, 2020 and was due to a pinhole in the bottom of a five hundred (500) barrel crude oil tank. Approximately one hundred-seventy-two (172) barrels of crude oil was calculated to have been released, with zero (0) barrels being recovered. The crude oil was released within a tank battery surrounded by an unlined berm.

The release falls under the jurisdiction of the NMOCD District 1 Office in Hobbs, New Mexico. The NMOCD assigned the release with Incident Number nRM2030932103. A previous Site Characterization and Remediation Work Plan dated February 4, 2021 was submitted to the NMOCD for approval. The work plan was denied on June 17, 2021, due to not having the site delineated and due to lack of depth to groundwater information within a half mile of the site. The original Plan stated the nearest groundwater well was located approximately 1.7 miles west of the Site. An Amended Site Characterization and Remediation Work Plan dated June 22, 2022 was



submitted to the NMOCD and approved July 5, 2022. The Release Notification, Site Assessment/Characterization, Remediation, and Closure sections of Form C-141 are attached to the front of this report.

3. Groundwater and Site Characterization

On July 20, 2021, Talon LPE (Talon) installed a temporary well, Abby Temp Well, at the following GPS coordinates, 33.542237 N latitude and 103.555846 W longitude, which is located on the well pad and within a half mile from the Site. The temporary well was installed to a total depth of 57.40 feet below ground surface (bgs) and was dry when drilled. The Abby BLF State #1 Temp Well was left open for seventy-two (72) hours and a water level meter was utilized to determine the presence or absence of groundwater. The depth to groundwater was measured at 54.81 feet bgs. Abby BLF State #1 Temp well plugged and abandoned.

According to the Site characterization evaluation and 19.15.29.12.C(4)(a) the Site is located within an area of low karst potential with depth to groundwater fifty-one (51) to one hundred (100) feet bgs and meets the closure criteria for depth to groundwater fifty-one (51) to one hundred (100) feet in Table I in NMAC 19.15.29.12. The Site characterization documentation (Karst Potential, Talon and GHD Soil Boring Log, FEMA, Points of Diversion and Wetlands maps) are provided in Attachment A. The soil closure criteria are listed below:

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft)
No Receptors Found	>100 ft

Regulatory Standard	Chloride	TPH (GRO+DRO+MRO)	TPH (GRO+MRO)	BTEX	Benzene
19.15.29.13 Restoration, Reclamation and Re- Vegetation (Impacted Area 0-4 Feet)	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
19.15.29.12 NMAC Table I Closure Criteria for Soils Impacted by a Release	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
Notes: = not defined					

 Table 3.1
 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12)

4. Initial Response Summary

EOG conducted an Initial Response action in early November 2020 by removing all equipment from the tank battery, then excavating soils within the berm area to a depth of four (4) feet bgs. GHD conducted confirmation sampling of the initial excavation on November 11, 2020. Composite confirmation samples were collected from the bottom and side walls of the excavation from areas representing an area no greater than two hundred (200) square feet. Twenty (20) confirmation samples were collected from the bottom of the excavation (BH-1 through BH-20) and six (6) sidewall confirmation samples (SW-1 through SW-6) were collected from the excavation sidewalls. All soil samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, total petroleum hydrocarbons (TPH) by Method 8015B Modified, and chloride by EPA Method 300 by Envirotech Laboratory in Farmington, New Mexico.

Analytical results indicated twelve (12) of the bottom hole confirmation samples and one (1) sidewall confirmation sample exhibited TPH concentrations above Table I Closure Criteria: B-1 through B-6, B-8 through B-10, and B-12 through B-14.

None of the confirmation samples exhibited chloride concentrations above Table I Closure Criteria of 10,000 mg/kg. Details of initial activities were documented in a Site Characterization and Remediation Plan, dated February 3, 2021.

5. Soil Delineation Assessment Summary, Findings, and Waste Management

On June 22, 2021, GHD and EOG's contractor, Culberson Construction Energy Services (CCI) installed 7 test pits, TP1 through TP7, within and around the suspected impacted area. The test pit locations were excavated to depths ranging from the surface to eighteen (18) feet below grade. Soil samples were collected from varying depths of the test pits and field screened for chloride and hydrocarbons. Select soil samples were analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300, by Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico.

Analytical results indicated TPH and/or BTEX concentrations above Table I Closure Criteria for TP1, TP2, TP3, and TP5. All chloride concentrations were below Table I Closure Criteria. Analytical results and sample locations are provided on Figure 2 and Table 1. Details of delineation activities were documented in the Amended Site Characterization and Remediation Work Plan dated June 22, 2022.

Waste Management activities were performed in coordination with EOG directives. EOG obtained regulatory approval via the successful processing of Form C-138 Request for Approval to Accept Solid Waste. The waste was approved for acceptance at the OCD-permitted (NM-01-0019), Gandy Marley, Inc facility. Approximately 740 cubic yards of impacted soil were disposed at Gandy Marley, Inc. The waste manifests from June 22 through July 19, 2021, are available upon request and aren't included in this report due to the size of the file. A Daily Disposal Summary is provided in Table 2.

6. Excavation, Confirmation Sampling, and Waste Management

Due to test pits exhibiting benzene, BTEX, and TPH concentrations above Table I Closure Criteria, GHD and BDS Enterprises, LLC (BDS) mobilized to the Site on July 27, 2022, to excavate the impacted areas. BDS excavated the area around test pits TP1, TP2, TP3, and TP5 to various depths. The area around TP1 was excavated to a depth of seven (7) feet bgs. The area around TP2 was excavated to depths ranging from twelve (12) to sixteen (16) feet bgs. The area around TP3 was excavated to depths ranging from eight (8) to twelve (12) feet bgs. The area around TP5 was excavated to a depth of two (2) feet bgs. The surface dimensions of the excavation totalled approximately 5,040 sq feet, measuring approximately 88 feet long and ranging in width from 50 to 60 feet. Composite confirmation samples were collected from the bottom and sidewalls of the excavation

representing no more than two hundred (200) sq feet. Thirty-four (34) bottom hole (BHA-1 through BHA-6, BHA-4A through BHA-7A, BHB-1 through BHB-8, BHC-1 through BHC-8, and BHD-1 through BHD-8) and twenty-one (21) sidewall (SWA-1 through SW-3, SWB-1, SWB-2, SWC-1 through SWC-5, SWD-1 through SWD-5, SWAB-1, SWAB-2, SWBC-1, SWBC-2, SWCD-1, and SWCD-2) composite confirmation samples were collected. All confirmation samples were submitted to HEAL in Albuquerque, New Mexico, and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300.

Analytical results indicated six (6) of the fifty-five (55) confirmation samples exhibited TPH concentrations above Table I Closure Criteria (BHA-7A, BHD-1, SWC-1, SWC-5, SWAB-1, and SWAB-2), BHD-1 also exhibited BTEX concentrations above Table I Closure Criteria. Figure 3 depicts the locations of the bottom hole and sidewall confirmation samples. Analytical results are provided on Table 1 and in the Laboratory Analytical Reports provided in Attachment B.

Due to the confirmation samples with BTEX and TPH concentrations above Table I Closure Criteria, GHD and BDS returned to the Site on August 17, 2022, to further excavate the areas and resample. The area around BHA-7A was excavated deeper to seven (7) feet bgs and resampled (BHA-7B). The area around BHD-1 was excavated deeper to twenty-four (24) feet bgs and resampled (BHD-1A). The sidewall locations with Table I Closure Criteria exceedances were excavated further and resampled (SWC-1A, SWC-5A, SWAB-1A, SWAB-2A) and two additional sidewall samples were collected due to excavation becoming deeper (SWD-6 and SWD-7). None of the samples collected exhibited benzene, BTEX, TPH, or chloride concentrations above Table I Closure Criteria. Figure 3 depicts the locations of the bottom hole and sidewall confirmation samples. Analytical results are provided on Table 1 and in the Laboratory Analytical Reports provided in Attachment B. Confirmation Sampling Notifications are provided as Attachment C. A photographic log is included as Attachment D.

Waste Management activities were performed in coordination with EOG directives. EOG obtained regulatory approval via the successful processing of Form C-138 Request for Approval to Accept Solid Waste. The waste was approved for acceptance at the OCD-permitted (WM-1-035), Gandy Marley, Inc facility located at US Highway 62 West, Carlsbad, NM, 88203. Approximately 580 yards of impacted soil were disposed at Gandy Marley, Inc. The waste manifests from August 4 through August 8, 2022, are available upon request and aren't included in this report due to the size of the file. A Daily Disposal Summary is provided in Table 2.

7. nRM2030932103 Closure Request

The excavation will be backfilled with non-impacted material as soon as backfill activities can be scheduled with a contractor. Site characterization, soil delineation, and remediation activities for this incident number have been performed in accordance with applicable NMOCD guidance and regulations. Based upon supporting documentation provided in this report, GHD, on behalf of EOG, respectfully requests closure and no further regulatory actions for nRM2030932103.

If you have any questions or comments concerning this Site Closure Report, please do not hesitate to contact our Midland office at (432) 686-0086.

Sincerely,

GHD

Nurrey

J.T. Murrey Senior Project Manager

NR/jt/1

Matter flow

Nate Reece Environmental Scientist

Encl. Figure 1 – Site Location Map
Figure 2 – Site Assessment: Soil Analytical Results Map
Figure 3 – Excavation and Confirmation Sampling: Analytical Results Map
Table 1 – Summary of Soil Analytical Data
Table 2 – Daily Disposal Summary
Attachment A – Site Characterization Documentation
Attachment B – Laboratory Analytical Reports and Chain-of-Custody Documentation
Attachment C – Sampling Notifications
Attachment D – Photographic Log

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Figures



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Data Source: USGS 7.5 Minute Quad "Flying M Ranch, New Mexico" Lat/Long: 33.542404° North, 103.556345° West

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			Benzene	BTEX	TPH Total	Chloride
	Sampla	Depth	Benzene	BIEX	GRO/DRO/MRO	Chionae
Sample ID	Sample Date	(feet bgs)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
		bys)			for Soils <50 feet	10,000
			10 mg/Kg	50 mg/Kg	2,500 mg/Kg	mg/Kg
	0.00.001	1 1	Assessment			
TP1-4 TP1-8	6/22/21 6/22/21	4	<0.096 <0.019	36.4 <0.077	5,610 <49	86 <60
TP1-12	6/22/21	12	<0.019	<0.077	<49	<60
TP1-13	6/22/21	13	<0.091	< 0.36	<50	<60
TP2-4	6/22/21	4	15	344	33,700	470
TP2-10	6/22/21	10	7.4	218.4	13,500	150
TP2-15	6/22/21	15	0.046	1.002	422	240
TP2-18	6/22/21	18	<0.022	<0.088	263	260
TP3-4	6/22/21	4	4.6	275.6	18,600	<60
TP3-8	6/22/21	8	0.41	35.91	4,560	140
TP3-12	6/22/21	12	<0.093	2.72	810	68
TP4-S	6/22/21	Surface	<0.017	< 0.069	12	<59
TP4-2	6/22/21	2	<0.019	<0.074	<46	<60
TP5-S	6/22/21	Surface	<0.020	<0.080	670	<60
TP5-2	6/22/21	2	<0.018	<0.072	<50	<60
TP6-S	6/22/21	Surface	<0.020	<0.080	<48	<60
TP6-2	6/22/21	2	<0.020	<0.000	<40	<59
TP7-S	6/22/21	Surface	< 0.017	<0.067	94	<60
TP7-2	6/22/21	2	<0.017	<0.007	94 <45	<00 88
Askenin and and	20022	A sugar	COLUMN STATE	Saul Stand	Contraction of the second	a real and
LEGE	ND				ACCESS I	ROAD
	SED EXCAVA	ATION ARE	EA w/ DEPTH	and the a	the later	53.95
TEST P	PIT LOCATION			Same Contraction	- Carlos	2. 55
	OF SAMPLE			14 CM TO	Section to	
	NE, TOLUENE ES CONCENT				2.23	Starting and
	PETROLEUM	`	,	1.20		1.5
	ENTRATION (N	/IG/KG)		100	and the second	1
		Ν				
		1	<	NOTES:		
0 20	40 ft			1. RESULTS IN	MILLIGRAMS PER	KILOGRAM (
			1		1 FOR FULL ANALY	
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New Mexico East (US	,					

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Filename: \\ghdnet(ghd)US\Albuquerque\Projects\562\11220612\Digital_Design\ACAD\Figures\RPT001\11220612-GHD-0000-RPT-EN-0101_DL-001.dwg Plot Date: 16 June 2022 6:12 PM

Data Source: Image © 2021 Google - Imagery Date: January 19, 2018 Lat/Long: 33.542404° North, 103.556345° West



Filename: NUSIMbgeuereuelProjects/56211220612Digital_Design/ACADiFigures/RPT00111220612-GHD-0000-RPT-EN-0101_DL-002.dwg

Data Source: Image © 2021 Google - Imagery Date: January 19, 2018 Lat/Long: 33.542404° North, 103.556345° West Received by OCD: 8/31/2022 2:12:45 PM

Tables

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										ТРН		
		Depth	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO(C6-C10)	DRO(C10- C28)	MRO (C28- C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Sample Date	(feet	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
	Date	bgs)			Table I C	losure Criteria	for Soils 51-10	0 feet Depth to 0	Groundwater 19	.15.29 NMAC		
			10				50	1,0	00		2,500	10,000
					Initia	l Assessment	Samples					
SW-1	11/11/2020	SW	<0.0250	<.0250	<.0250	0.0655	0.1	<200	61	<50.0	61	1,360
SW-2	11/11/2020	SW	<0.0250	<.0250	<.0250	<.0250	<0.0250	<200	<25.0	<50.0	0	277
SW-3	11/11/2020	SW	<0.0250	1.06	1.17	9.13	11.4	<200	13,700	4,290	17,990	4,700
SW-4	11/11/2020	SW	<0.0250	<.0250	<.0250	<.0250	<0.0250	<200	40	<50.0	40	1,340
SW-5	11/11/2020	SW	<0.0250	<.0250	<.0250	<.0250	<0.0250	<200	25	<50.0	25	194
SW-6	11/11/2020	SW	<0.0250	<.0250	<.0250	<.0250	<0.0250	<200	<25.0	<50.0	<275	114
B-1	11/11/2020	4'	1.47	18.8	11	74.5	105.8	564	14,300	3,220	18,084	1,470
B-2	11/11/2020	4'	1.88	23.6	14.7	101	141.2	859	19,600	3,120	23,579	467
B-3	11/11/2020	4'	0.926	7.51	6.21	47.6	62.2	532	19,900	4,720	25,152	403
B-4	11/11/2020	4'	<0.0250	0.0388	0.0313	0.405	0.5	<200	1,840	490	2,330	1,370
B-5	11/11/2020	4'	<0.0250	<.0250	<.0250	<.0250	<0.0250	<200	1,050	294	1,344	723
B-6	11/11/2020	4'	<0.0250	<.0250	<.0250	1.41	1.41	<200	4,350	881	5,231	333
B-7	11/11/2020	4'	<0.0250	<.0250	<.0250	<.0250	<.0251	<200	714	254	968	190
B-8	11/11/2020	4'	0.788	6.44	4.64	34.6	46.5	347	14,500	2,550	17,397	3,770
B-9	11/11/2020	4'	2.5	16	11.2	82.4	112.1	686	28,400	6,270	35,356	1,990
B-10	11/11/2020	4'	<0.0250	0.667	2.44	22.7	25.8	241	10,100	2,310	12,651	1,130
B-11	11/11/2020	4'	<0.0250	<.0250	<.0250	<.0250	<0.0250	<200	49	<50.0	49	362
B-12	11/11/2020	4'	<0.0250	0.311	0.893	8.84	10.0	<200	4,390	773	5,163	1,250
B-13	11/11/2020	4'	<0.0250	0.323	0.944	7.2	8.5	<200	8,570	2,330	10,900	921
B-14	11/11/2020	4'	<0.0250	3.91	4.34	33.1	41.4	376	10,100	1,670	12,146	225
B-15	11/11/2020	4'	<0.0250	<.0250	<.0250	0.113	0.1	<200	484	174	658	891
B-16	11/11/2020	4'	<0.0250	<.0250	<.0250	<.0250	<0.0250	<200	203	80	283	94
B-17	11/11/2020	4'	<0.0250	<.0250	<.0250	<.0250	<0.0250	<200	<25.0	<50.0	<275	67
B-18	11/11/2020	4'	<0.0250	<.0250	<.0250	<.0250	<0.0250	<200	<25.0	<50.0	<275	60
B-19	11/11/2020	4'	<0.0250	<.0250	<.0250	<.0250	<0.0250	<200	32	<50.0	32	31
B-20	11/11/2020	4'	<0.0250	<.0250	<.0250	<.0250	<0.0250	<200	193	84	277	272
	<u>.</u>	· · · · · ·			2021	Assessment	Samples			•	· ·	
TP1-4	6/22/21	4	<0.096	3.4	4.0	29	36.4	910	3,700	1,000	5,610	86
TP1-8	6/22/21	8	<0.019	<0.038	<0.038	<0.077	<0.077	<3.8	<9.9	<49	<49	<60
TP1-12	6/22/21	12	<0.018	< 0.036	<0.036	<0.072	<0.072	<3.6	<9.6	<48	<48	<60
TP1-13	6/22/21	13	<0.091	<0.18	<0.18	<0.36	< 0.36	<18	<10	<50	<50	<60

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									ТРН		Otherida	
	0	Depth	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO(C6-C10)	DRO(C10- C28)	MRO (C28- C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Sample Date	(feet	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
		bgs)			Table I C	losure Criteria	for Soils 51-10	0 feet Depth to 0	Froundwater 19	0.15.29 NMAC		
			10				50	1,0	00		2,500	10,000
	6/22/21	4	15	68	31	230	344	4,100	23,000	6.600	33,700	470
TP2-10	6/22/21	10	7.4	51	20	140	218.4	3,800	7,900	1,800	13,500	150
TP2-15	6/22/21	15	0.046	0.20	0.086	0.67	1.002	23	310	89	422	240
TP2-18	6/22/21	18	<0.022	<0.044	<0.044	<0.088	<0.088	<4.4	190	73	263	260
TP3-4	6/22/21	4	4.6	63	28	180	275.6	3,700	12,000	2,900	18,600	<60
TP3-4	6/22/21	8	0.41	6.3	3.2	26	35.91	760	3,000	800	4,560	<00 140
TP3-12	6/22/21	12	<0.093	0.33	0.29	2.1	2.72	100	540	170	810	68
11012	0/22/21	12	0.000	0.00	0.25	-	2.72	100	040		010	00
TP4-S	6/22/21	Surface	<0.017	<0.034	<0.034	<0.069	<0.069	<3.4	12	<49	12	<59
TP4-2	6/22/21	2	<0.019	<0.037	<0.037	<0.074	<0.074	<3.7	<9.3	<46	<46	<60
TP5-S	6/22/21	Surface	<0.020	<0.040	<0.040	<0.080	<0.080	<4.0	290	380	670	<60
TP5-2	6/22/21	2	<0.018	<0.036	<0.036	<0.072	<0.072	<3.6	<10	<50	<50	<60
TP6-S	6/22/21	Surface	<0.020	<0.040	<0.040	<0.080	<0.080	<4.0	<9.5	<48	<48	<60
TP6-2	6/22/21	2	<0.018	<0.036	< 0.036	<0.071	<0.071	<3.6	<9.7	<48	<48	<59
TP7-S	6/22/21	Surface	<0.017	<0.033	< 0.033	<0.067	<0.067	<3.3	36	58	94	<60
TP7-2	6/22/21	2	<0.019	< 0.038	<0.038	<0.076	< 0.076	<3.8	<9.1	<45	<45	88

Values reported in mg/kg
 < = Value Less than Reporting Limit (RL)

5. TPH analyses by EPA Method SW 8015 Mod.

6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil

3. Bold Indicates Analyte Detected

4. BTEX analyses by EPA Method SW 8021B.

Vellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.
 Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).

B-BH-2 Sample Point Excavated

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EOG Abby BLF State #1

Area A

									Total Pe	troleum Hydroc	arbons (TPH)		
Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C10)	DRO (C10-C28)	GRO+DRO	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Table I Closure C Depth to Ground			10				50			1,000		2,500	10,000
						Bottom Hole Co	nfirmation San	ples					
BHA-1	7/29/2022	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<14	<46	<46	<60
BHA-2	7/29/2022	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	29	29	<42	29	<60
BHA-3	7/29/2022	2	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<15	<15	<49	<49	100
BHA-4*	7/29/2022	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<15	<15	<49	<49	340
BHA-4A	8/4/2022	2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<14	<47	<47	130
BHA-5*	7/29/2022	2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<14	<14	<45	<45	110
BHA-5A	8/4/2022	2	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<15	<15	<49	<49	160
BHA-6*	7/29/2022	2	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<15	<15	<49	<49	130
BHA-6A	8/4/2022	2	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<15	<15	<50	<50	82
BHA 7A	8/4/2022	ľ	<0:024	<0.049	<0:049	<0:098	<0.098	<4.9	190	190	49	239	
BHA-7B	8/23/2022	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.2	11.2	<10.0	11.2	48.0

Values reported in mg/kg

2. < = Value Less than Reporting Limit (RL)

3. Bold Indicates Analyte Detected

4. BTEX analyses by EPA Method SW 8021B.

5. TPH analyses by EPA Method SW 8015 Mod.

B-BH 2 Sample Point Excavated

6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.

8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).

9. J - the target analytes was positively identified below the quantitation limit and above the detection limit.

10. * = sample locations not included on Figure 3 due to incorrect sampling methodology: >200 sq ft composite sample.

Area B

									Total Pe	troleum Hydroc	arbons (TPH)		
Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C10)	DRO (C10-C28)	GRO+DRO	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Table I Closure Cr Depth to Ground			10				50			1,000		2,500	10,000
					I	Bottom Hole Co	onfirmation San	nples					
BHB-1	8/2/2022	7	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<14	<14	<45	<45	<60
BHB-2	8/2/2022	7	<0.12	<0.24	<0.24	<0.49	<0.49	<24	210	210	57	267	64
BHB-3	8/2/2022	7	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<14	<14	<45	<45	330
BHB-4	8/2/2022	7	<0.12	<0.24	<0.24	<0.49	<0.49	<24	120	120	<46	120	130
BHB-5	8/4/2022	7	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<14	<14	<48	<48	<60
BHB-6	8/4/2022	7	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<15	<15	<50	<50	<60
BHB-7	8/4/2022	7	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<15	<15	<49	<49	110
BHB-8	8/4/2022	7	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	190	190	51	241	97
		•		-			•	•			•		

Values reported in mg/kg
 < = Value Less than Reporting Limit (RL)

3. Bold Indicates Analyte Detected

6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.

8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).

4. BTEX analyses by EPA Method SW 8021B. 9.

5. TPH analyses by EPA Method SW 8015 Mod. B-BH-2 Sample Point Excavated 9. J - the target analytes was positively identified below the quantitation limit and above the detection limit.

Area C

									Total Pe	troleum Hydroc	arbons (TPH)		
Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C10)	DRO (C10-C28)	GRO+DRO	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Table I Closure Cr Depth to Ground			10				50			1,000		2,500	10,000
					1	Bottom Hole Co	onfirmation San	nples					
BHC-1	8/2/2022	16	<0.12	<0.24	<0.24	<0.48	<0.48	<24	<15	<24	<49	<49	240
BHC-2	8/2/2022	12	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<14	<14	<47	<47	70
BHC-3	8/2/2022	12	<0.12	<0.24	<0.24	<0.49	<0.49	<24	<13	<24	<44	<44	210
BHC-4	8/2/2022	12	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<13	<13	<43	<43	<60
BHC-5	8/4/2022	12	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	280	280	80	360	120
BHC-6	8/4/2022	12	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	72	72	<49	72	<60
BHC-7	8/4/2022	12	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	100	100	<46	<46	100
BHC-8	8/4/2022	12	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<14	<14	<45	<45	160
		·			•	-	• •	•	•	•	•		

Values reported in mg/kg
 < = Value Less than Reporting Limit (RL)

3. Bold Indicates Analyte Detected

6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.

8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).

4. BTEX analyses by EPA Method SW 8021B.

5. TPH analyses by EPA Method SW 8015 Mod. B-BH-2 Sample Point Excavated 9. J - the target analytes was positively identified below the quantitation limit and above the detection limit.

Area D

									Total Pe	troleum Hydroc	arbons (TPH)		
Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C10)	DRO (C10-C28)	GRO+DRO	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Table I Closure C Depth to Groun			10				50			1,000		2,500	10,000
					I	Bottom Hole Co	nfirmation San	nples					
BHD-1	8/3/2022	72	~0.12	4.7	5.6	43	59.3	770	4,900	5,670	910	6,580	160
BHD-1A	8/17/2022	24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	20.4	20.4	<10.0	20.4	320
BHD-2	8/2/2022	8	<0.023	<0.047	<0.047	<0.093	<0.093	<4.7	<15	<15	<50	<50	<60
BHD-3	8/2/2022	8	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<15	<15	<49	<49	<60
BHD-4	8/2/2022	8	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<15	<15	<50	<50	<60
BHD-5	8/4/2022	12	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<15	<15	<49	<49	<60
BHD-6	8/4/2022	8	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<14	<14	<47	<47	<60
BHD-7	8/4/2022	12	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<14	<14	<46	<46	<60
BHD-8	8/4/2022	8	< 0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<15	<15	<49	<49	<60

1. Values reported in mg/kg

2. < = Value Less than Reporting Limit (RL)

3. Bold Indicates Analyte Detected

6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.

8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).

9. J - the target analytes was positively identified below the quantitation limit and above the detection limit.

4. BTEX analyses by EPA Method SW 8021B.5. TPH analyses by EPA Method SW 8015 Mod.

B-BH-2 Sample Point Excavated

.

Table 1Summary of Soil Analytical Data AbbyBLF State #1EOG ResourcesLea County, New Mexico

Sidewall samples

									Total Pe	troleum Hydroc	arbons (TPH)		
Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C10)	DRO (C10-C28)	GRO+DRO	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Table I Closure Cr Depth to Ground			10				50			1,000		2,500	10,000
						Sidewall Com	firmation Samp	les	•				
SWA-1	8/3/2022	0-2	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<14	<14	<45	<45	<60
SWA-2	8/3/2022	0-2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<14	<14	<46	<46	70
SWA-3	8/3/2022	0-2	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<15	<15	<49	<49	160
SWB-1	8/3/2022	0-7	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<15	<15	<49	<49	64
SWB-2	8/3/2022	0-7	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	270	270	70	340	<59
SW6-1	873/2022	64	~0.42	20:25	0.68	4:2	4.88	140	1,400	1,540	380	1,840	120
SWC-1A	8/17/2022	0-16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SWC-2	8/3/2022	0-12	<0.025	<0.050	<0.050	0.27	0.27	21	620	641	180	821	68
SWC-3	8/3/2022	0-12	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	290	290	94	384	<61
SWC-4	8/3/2022	0-12	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<14	<46	<46	<60
SWG-5	874/2022	12-16	<0.12	0:28	0.93	9:2	10:41	230	3,300	3,530	660	4,190	120
SWC-5A	8/23/2022	12-16	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16.2	16.2	<10.0	16.2	560
SWD-1	8/3/2022	0-8	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	95	95	<45	95	<60
SWD-2	8/3/2022	0-8	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<14	<46	<46	<60
SWD-3	8/3/2022	0-8	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<14	<14	<47	<47	<60
SWD-4	8/3/2022	0-8	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<13	<13	<44	<44	<60
SWD-5	8/3/2022	0-8	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<15	<15	<49	<49	<60
SWD-6	8/23/2022	12-24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	832
SWD-7	8/23/2022	12-24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
SWAB-1	874/2022	27	<0:024	<u><0.049</u>	<0.049	<0:007	<0:097	-4.9	110	110		173	120
SWAB-1A	8/22/2022	2-7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SWAB-2	874/2022	Z	<0.023	<u>~0:047</u>	<0:04Z	<0:093	<0:093	c4.7	900	900	340	1,240	68
SWAB-2A	8/22/2022	2-7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SWBC-1	8/4/2022	7-16	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	44	44	<48	<48	920
SWBC-2	8/4/2022	7-12	<0.12	<0.24	<0.24	<0.49	<0.49	<24	400	400	110	510	580
SWCD-1	8/4/2022	6-12	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<14	<14	<47	<47	<60
SWCD-2	8/4/2022	8-12	<0.024	<0.047	<0.047	<0.094	<0.094	<4.7	<15	<15	<49	<49	<60

Values reported in mg/kg
 < = Value Less than Reporting Limit (RL)

6. GRO/DRO/MRO = Gasoline/Diesel/Motor Oil

7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table 1 Closure Criteria for the site.

Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table 1 Closure Criteria for the site (Surface to 4 Feet Below Grade).
 J - the target analytes was positively identified below the quantitation limit and above the detection limit.

Bold Indicates Analyte Detected
 BTEX analyses by EPA Method SW 8021B.

5. TPH analyses by EPA Method SW 8015 Mod.

B-BH-2 Sample Point Excavated

Table 2 Daily Disposal Summary 11220612 Abby BLF State #1 EOG Resources Lea County, New Mexico

Date of Disposal	Cubic Yards Disposed
6/22/2021	120
7/16/2021	480
7/19/2021	140
8/04/2022	240
8/05/2022	100
8/08/2022	240
Project Total	1,320

Attachment A Site Characterization Documentation



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 Abby BLF State #1

 High

 Low

 Medium





300 ft

N

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OSE POD Locations Map - Abby BLF State #1



6/21/2022, 9:23:54 AM GIS WATERS PODs

• Pending

OSE District Boundary

SiteBoundaries



Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community, U.S. Department of Energy Office of Legacy Management

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Amarillo, TX - Artesia, NM Midland, TX - Oklahoma City, OK San Antonio, TX - Fort Collins, CO

BORING LOG

Boring Number: 15.1 #(Job Number: 700438.265.01	Driller/Co.: Talon/LPE
Site Name: File Allen BLES	Job Number: 700438.265.00	Bit Size: . 5 7/8 "
Location: 33.542237	Weather: Sumy	Rig Type: Reichlos W
Date: -103.555846	Sample Retrieval Method: Grab	Drilling Method: Air Ratery
		0

Time	Sample Number	Sample Interval (ft)	Sample Recovery (ft)	USCS	Sample Material/Comments (include composition, moisture, hardness, grain size, color)	ODOR	PID (ppm)
	· 1	0.5'	N/A	NA	Sand w/ Gravel, bram	N	14
	2	5-10'			SAA		
	3	10-15			SAA		
	4	15-20'			SAA		
	5	20-25'			Sondstone w/ Sand, braun		
	Ģ	25-30			SAA		
	7	30-75'			SAA		
	8	35-40'			Sand al brund, brann		
	9	40-45			SAA		
	10	45-50'			SAA		
	1(50-57	L	V	SAA	L	1

When drilled; 2 hours. Borehole After Water Mensured @ 54.81 ft. bys



STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: EOG Abby BLF State #1 Release Site

NUMBER: 11220612 CLIENT: EOG Resources. INC.

LOCATION: N-10-09S-33E, Lea County, NM 33.542237, -103.555846 FIELD PERSONNEL: Lee M./Zach C.

DATE COMPLETED: 20 July 2021 DRILLING METHOD: Air Rotary

HOLE DESIGNATION:

Abby Temp Well #1

8/7/21	DEPTH	STRATIGRAPHIC DESCRIPTION & REMARKS		MO	MONITOR INSTALLATION		SAMPLE				
te: 26	ft BGS		m BGS	DEPTH m BGS MONITOR INS				VAL	(%	ε	
0 Da							NUMBER	INTERVAL	REC (%)	mS/cm	
ENLO		SAND, fine/medium, with sandstone, brown, dry					z	Z	ш		
SURD	-										
VER	- 5	SAND, with caliche, dry	5.00								
ü	-										
Repo	- 10										
1.GLB	-										
07	- 15										
NVIRO	-										
프 우	- 20										
312 GI	-										
12206	- 25	SAND, fine/medium, with consolidated sandstone throughout, dry	23.00								
Library File: 11220612 GHD_ENVIRO_V04.GLB Report: OVERBURDEN LOG Date: 26/7/21	-										
raryF	- - 20	Lk	÷. 30.00								
	- 30 -	SAND, with partialy consolidated sandstone and caliche									
GPJ	-										
FOG	35 										
20612	-										
3/1122	40 										
	- 										
D/GIN	45 	CLAYEY SAND, with caliche stone interbedded, brown, dry	45.00								
	-	biowi, dry			-						
HARE	- 50										
ORKS	-										
312\W(- 55										
12206	-	END OF BOREHOLE @ 57.40ft BGS	57.40		DETAILS						
\562\1	- 60			Screen	ed interval: 0 to 57.40ft BGS						
ECTS	-			Length	10ft						
PROJ	- 65										
QUE/	-										
JOUER	- 70										
ALBU	-										
NSU/D	- 75 -										
TIGH	-										
HDNE		NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; RE	FER TO CU	RRENT	ELEVATION TABI	E	1	L	I		
File: \\GHDNET\GHD\US\ALBUQUERQUERQUECTS\562\11220612\\WORKSHARE\FIELD\GINT LOG\11220612 LOGS.GPJ											
Ē											



U.S. Fish and Wildlife Service

National Wetlands Inventory

Abby BLF State #1



Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

Released to Imaging: 9/8/2022 11:18:02 AM

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- **Freshwater Pond**

Lake Other Riverine

Wetlands Mapper web site.

Received by OCD: 8/31/2022 2:12:45,PM National Flood Hazard Layer FIRMette



Legend

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Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Attachment B Laboratory Analytical Reports and Chain-of-Custody Documentation



August 11, 2022

Tom Larson GHD Midland 2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086 FAX:

RE: Abby BLF State 1

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

OrderNo.: 2208156

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 6 sample(s) on 8/3/2022 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208156

Date Reported: 8/11/2022

CLIENT: GHD Midland Project: Abby BLF State 1		Client Sample ID: BHA1 Collection Date: 7/29/2022 10:30:00 AM								
Lab ID: 2208156-001	Matrix: SOIL	·	3/2022 7:15:00 AM	VI						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analys	t: JTT				
Chloride	ND	60	mg/Kg	20	8/5/2022 11:27:26 PM	69302				
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analys	t: SB				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/8/2022 8:49:07 PM	69267				
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/8/2022 8:49:07 PM	69267				
Surr: DNOP	83.4	21-129	%Rec	1	8/8/2022 8:49:07 PM	69267				
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: CCM				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/6/2022 2:57:00 AM	69246				
Surr: BFB	86.5	37.7-212	%Rec	1	8/6/2022 2:57:00 AM	69246				
EPA METHOD 8021B: VOLATILES					Analys	t: CCM				
Benzene	ND	0.024	mg/Kg	1	8/6/2022 2:57:00 AM	69246				
Toluene	ND	0.049	mg/Kg	1	8/6/2022 2:57:00 AM	69246				
Ethylbenzene	ND	0.049	mg/Kg	1	8/6/2022 2:57:00 AM	69246				
Xylenes, Total	ND	0.098	mg/Kg	1	8/6/2022 2:57:00 AM	69246				
Surr: 4-Bromofluorobenzene	81.7	70-130	%Rec	1	8/6/2022 2:57:00 AM	69246				

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208156

Date Reported: 8/11/2022

CLIENT: GHD Midland	Client Sample ID: BHA2 Collection Date: 7/29/2022 10:35:00 AM								
Project: Abby BLF State 1									
Lab ID: 2208156-002	Matrix: SOIL Received Date: 8/3/2022 7:15:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	t: JTT			
Chloride	ND	60	mg/Kg	20	8/6/2022 12:04:40 AM	69302			
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: DGH			
Diesel Range Organics (DRO)	29	13	mg/Kg	1	8/5/2022 7:49:00 PM	69267			
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	8/5/2022 7:49:00 PM	69267			
Surr: DNOP	27.9	21-129	%Rec	1	8/5/2022 7:49:00 PM	69267			
EPA METHOD 8015D: GASOLINE RANG	θE				Analys	t: CCM			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/6/2022 3:17:00 AM	69246			
Surr: BFB	91.6	37.7-212	%Rec	1	8/6/2022 3:17:00 AM	69246			
EPA METHOD 8021B: VOLATILES					Analyst: CCM				
Benzene	ND	0.024	mg/Kg	1	8/6/2022 3:17:00 AM	69246			
Toluene	ND	0.049	mg/Kg	1	8/6/2022 3:17:00 AM	69246			
Ethylbenzene	ND	0.049	mg/Kg	1	8/6/2022 3:17:00 AM	69246			
Xylenes, Total	ND	0.098	mg/Kg	1	8/6/2022 3:17:00 AM	69246			
Surr: 4-Bromofluorobenzene	84.4	70-130	%Rec	1	8/6/2022 3:17:00 AM	69246			

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208156

Date Reported: 8/11/2022

CLIENT: GHD Midland Project: Abby BLF State 1			ient Sample II		HA3 29/2022 10:40:00 AM				
Lab ID: 2208156-003	Matrix: SOIL				3/2022 7:15:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	t: JTT			
Chloride	100	60	mg/Kg	20	8/6/2022 12:41:54 AM	69302			
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analys	t: DGH			
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/5/2022 8:02:41 PM	69267			
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/5/2022 8:02:41 PM	69267			
Surr: DNOP	30.4	21-129	%Rec	1	8/5/2022 8:02:41 PM	69267			
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: CCM			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/6/2022 3:37:00 AM	69246			
Surr: BFB	90.1	37.7-212	%Rec	1	8/6/2022 3:37:00 AM	69246			
EPA METHOD 8021B: VOLATILES					Analys	t: CCM			
Benzene	ND	0.024	mg/Kg	1	8/6/2022 3:37:00 AM	69246			
Toluene	ND	0.048	mg/Kg	1	8/6/2022 3:37:00 AM	69246			
Ethylbenzene	ND	0.048	mg/Kg	1	8/6/2022 3:37:00 AM	69246			
Xylenes, Total	ND	0.097	mg/Kg	1	8/6/2022 3:37:00 AM	69246			
Surr: 4-Bromofluorobenzene	83.7	70-130	%Rec	1	8/6/2022 3:37:00 AM	69246			

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208156

Date Reported: 8/11/2022

CLIENT: GHD Midland			ient Sample II		HA4 29/2022 10:45:00 AM	
Project: Abby BLF State 1 Lab ID: 2208156-004	Matrix: SOIL	,			3/2022 7:15:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JTT
Chloride	340	60	mg/Kg	20	8/6/2022 12:54:18 AM	69302
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analys	t: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/5/2022 8:16:30 PM	69267
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/5/2022 8:16:30 PM	69267
Surr: DNOP	32.7	21-129	%Rec	1	8/5/2022 8:16:30 PM	69267
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/6/2022 3:57:00 AM	69246
Surr: BFB	86.9	37.7-212	%Rec	1	8/6/2022 3:57:00 AM	69246
EPA METHOD 8021B: VOLATILES					Analys	t: CCM
Benzene	ND	0.025	mg/Kg	1	8/6/2022 3:57:00 AM	69246
Toluene	ND	0.050	mg/Kg	1	8/6/2022 3:57:00 AM	69246
Ethylbenzene	ND	0.050	mg/Kg	1	8/6/2022 3:57:00 AM	69246
Xylenes, Total	ND	0.099	mg/Kg	1	8/6/2022 3:57:00 AM	69246
Surr: 4-Bromofluorobenzene	79.2	70-130	%Rec	1	8/6/2022 3:57:00 AM	69246

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208156

Date Reported: 8/11/2022

CLIENT: GHD Midland Project: Abby BLF State 1			ient Sample II		HA5 29/2022 10:50:00 AM				
Lab ID: 2208156-005	Matrix: SOIL	,			3/2022 7:15:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	t: JTT			
Chloride	110	60	mg/Kg	20	8/8/2022 10:14:52 AM	69313			
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS				Analys	t: DGH			
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/5/2022 11:02:12 AM	69271			
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	8/5/2022 11:02:12 AM	69271			
Surr: DNOP	96.4	21-129	%Rec	1	8/5/2022 11:02:12 AM	69271			
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: BRM			
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/5/2022 8:40:15 PM	69266			
Surr: BFB	98.2	37.7-212	%Rec	1	8/5/2022 8:40:15 PM	69266			
EPA METHOD 8021B: VOLATILES					Analys	t: BRM			
Benzene	ND	0.024	mg/Kg	1	8/5/2022 8:40:15 PM	69266			
Toluene	ND	0.048	mg/Kg	1	8/5/2022 8:40:15 PM	69266			
Ethylbenzene	ND	0.048	mg/Kg	1	8/5/2022 8:40:15 PM	69266			
Xylenes, Total	ND	0.096	mg/Kg	1	8/5/2022 8:40:15 PM	69266			
Surr: 4-Bromofluorobenzene	96.4	70-130	%Rec	1	8/5/2022 8:40:15 PM	69266			

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208156

Date Reported: 8/11/2022

CLIENT: GHD Midland		Cl	ient Sample II	D: BH	IA6	
Project: Abby BLF State 1		(Collection Date	e: 7/2	29/2022 10:55:00 AM	
Lab ID: 2208156-006	Matrix: SOIL		Received Date	e: 8/3	3/2022 7:15:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JTT
Chloride	130	60	mg/Kg	20	8/8/2022 10:27:16 AM	69313
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/5/2022 11:43:23 AM	69271
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/5/2022 11:43:23 AM	69271
Surr: DNOP	67.1	21-129	%Rec	1	8/5/2022 11:43:23 AM	69271
EPA METHOD 8015D: GASOLINE RANGE	E				Analys	t: BRM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/5/2022 9:51:17 PM	69266
Surr: BFB	101	37.7-212	%Rec	1	8/5/2022 9:51:17 PM	69266
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.024	mg/Kg	1	8/5/2022 9:51:17 PM	69266
Toluene	ND	0.047	mg/Kg	1	8/5/2022 9:51:17 PM	69266
Ethylbenzene	ND	0.047	mg/Kg	1	8/5/2022 9:51:17 PM	69266
Xylenes, Total	ND	0.095	mg/Kg	1	8/5/2022 9:51:17 PM	69266
Surr: 4-Bromofluorobenzene	99.3	70-130	%Rec	1	8/5/2022 9:51:17 PM	69266

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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L.		WO#:	2208156
Hall Env	ironmental Analysis Laboratory, Inc.		11-Aug-22
Client:	GHD Midland		

Project: Abby	BLF State 1							
Sample ID: MB-69302	SampType: mblk	TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID: 69302	RunNo: 90078						
Prep Date: 8/5/2022	Analysis Date: 8/5/2022	SeqNo: 3211166 Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Chloride	ND 1.5							
Sample ID: LCS-69302	SampType: Ics	TestCode: EPA Method 300.0: Anions						
Client ID: LCSS	Batch ID: 69302	RunNo: 90078						
Prep Date: 8/5/2022	Analysis Date: 8/5/2022	SeqNo: 3211167 Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Chloride	14 1.5 15.00	0 92.7 90 110						
Sample ID: MB-69313	SampType: mblk	TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID: 69313	RunNo: 90109						
Prep Date: 8/8/2022	Analysis Date: 8/8/2022	SeqNo: 3212358 Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Chloride	ND 1.5							
Sample ID: LCS-69313	SampType: Ics	TestCode: EPA Method 300.0: Anions						
Client ID: LCSS	Batch ID: 69313	RunNo: 90109						
Prep Date: 8/8/2022	Analysis Date: 8/8/2022	SeqNo: 3212359 Units: mg/Kg						
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Chloride	14 1.5 15.00	0 92.9 90 110						

Qualifiers:

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- Н Holding times for preparation or analysis exceeded
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- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT Hall

SUMMARI REI URI	WO#:	2208156
Environmental Analysis Laboratory, Inc.		11-Aug-22

Client: Project:	GHD Mid Abby BLF										
Sample ID:	MB-69271	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batch	n ID: 692	271	F	RunNo: 9	0075				
Prep Date:	8/4/2022	Analysis D)ate: 8/	5/2022	S	SeqNo: 32	210924	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	ND	15								
-	e Organics (MRO)	ND	50								
Surr: DNOP		8.4		10.00		83.7	21	129			
Sample ID:	LCS-69271	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	LCSS	Batch	n ID: 692	271	F	RunNo: 9	0075				
Prep Date:	8/4/2022	Analysis D)ate: 8/	5/2022	S	SeqNo: 32	210925	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	45	15	50.00	0	89.3	64.4	127			
Surr: DNOP		3.9		5.000		78.9	21	129			
Sample ID:	2208156-005AMS	SampT	уре: МЗ	5	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	BHA5	Batch	n ID: 692	271	RunNo: 90075						
Prep Date:	8/4/2022	Analysis D)ate: 8/	5/2022	S	SeqNo: 32	210927	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	39	14	46.00	0	84.3	36.1	154			
Surr: DNOP		3.0		4.600		65.7	21	129			
Sample ID:	2208156-005AMSD	SampT	уре: МS	SD.	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	BHA5	Batch	n ID: 692	271	F	RunNo: 9	0075				
Prep Date:	8/4/2022	Analysis D)ate: 8/	5/2022	5	SeqNo: 32	210928	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	29	14	45.66	0	64.3	36.1	154	27.6	33.9	
Surr: DNOP		2.1		4.566		45.2	21	129	0	0	
Sample ID:	MB-69267	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batch	n ID: 692	267	F	RunNo: 9	0075				
Prep Date:	8/4/2022	Analysis D)ate: 8/	5/2022	S	SeqNo: 32	210945	Units: mg/K	g		
•			DOL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte		Result	PQL	SPK value		701120			,		
,	Organics (DRO)	Result ND	PQL 15	SPR value	or renter var	/01/20					4.00.
Diesel Range C	Drganics (DRO) e Organics (MRO)			SPK value		,		-			

Qualifiers:

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

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

	WO#:	2208156	
ental Analysis Laboratory, Inc.		11-Aug-22	

Client: Project:	GHD Mic Abby BLI											
Sample ID:	LCS-69267	SampT	ype: LC	S	Tes	tCode: EF	A Method	8015M/D: Dies	sel Range	Organics		
Client ID:	LCSS	Batch	n ID: 692	267	F	RunNo: 90	075					
Prep Date:	8/4/2022	Analysis D	ate: 8/	5/2022	5	SeqNo: 32	210946	Units: mg/Kg	9			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range O	rganics (DRO)	42	15	50.00	0	84.8	64.4	127				
Surr: DNOP		3.0		5.000		59.9	21	129				
Sample ID:	LCS-69340	SampT	ype: LC	S	Tes	tCode: EF	A Method	8015M/D: Dies	sel Range	Organics		
Client ID:	LCSS	Batch	n ID: 69	340	F	RunNo: 90	0104					
Prep Date:	8/8/2022	Analysis D	ate: 8/	9/2022	\$	SeqNo: 32	212922	Units: %Rec				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP		4.6		5.000		91.3	21	129				
Sample ID:	: LCS-69347 SampType: LCS				Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	LCSS	Batch	n ID: 69	347	F	RunNo: 90104						
Prep Date:	8/9/2022	Analysis D	ate: 8/	9/2022	\$	SeqNo: 32	212923	Units: %Rec				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP		4.5		5.000		89.6	21	129				
Sample ID:	MB-69340	SampT	ype: ME	BLK	Tes	tCode: EF	A Method	8015M/D: Dies	sel Range	Organics		
Client ID:	PBS	Batch	n ID: 69	340	F	RunNo: 90	0104					
Prep Date:	8/8/2022	Analysis D	ate: 8/	9/2022	S	SeqNo: 32	212924	Units: %Rec				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP		9.8		10.00		98.4	21	129				
Sample ID:	MB-69347	SampT	ype: ME	BLK	Tes	stCode: EF	A Method	8015M/D: Dies	sel Range	Organics		
Client ID:	PBS	Batch	n ID: 69	347	F	RunNo: 9(0104		-			
Prep Date:	8/9/2022	Analysis D	ate: 8/	9/2022	Ş	SeqNo: 32	212925	Units: %Rec				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

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

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Surr: BFB

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

2000

2208156	WO#:	
11-Aug-22		

Client:	GHD Mic	lland										
Project:	Abby BLI	F State 1										
Sample ID: Ics	s-69246	Samp	Type: LC	s	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	•		
Client ID: LC	CSS	Batc	h ID: 69	246	F	RunNo: 9	0064					
Prep Date: 8	3/3/2022	Analysis [Date: 8/	5/2022	S	SeqNo: 32	209999	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Or	rganics (GRO)	24	5.0	25.00	0	96.4	72.3	137				
Surr: BFB		1900		1000		191	37.7	212				
Sample ID: ml	b-69246	Samp	Туре: М	BLK	Tes	tCode: EF	PA Method	8015D: Gasoline Range				
Client ID: PE	BS	Batc	h ID: 69	246	F	RunNo: 9	0064					
Prep Date: 8	3/3/2022	Analysis [Date: 8/	5/2022	5	SeqNo: 32	210000	Units: mg/K	g			
Prep Date: 8 Analyte	3/3/2022	Analysis [Result	Date: 8/ PQL		SPK Ref Val	SeqNo: 32 %REC	210000 LowLimit	Units: mg/K HighLimit	g %RPD	RPDLimit	Qual	
						•		U	0	RPDLimit	Qual	
Analyte		Result	PQL			•		U	0	RPDLimit	Qual	
Analyte Gasoline Range Or Surr: BFB		Result ND 810	PQL	SPK value 1000	SPK Ref Val	%REC 80.5	LowLimit 37.7	HighLimit	%RPD		Qual	
Analyte Gasoline Range Or Surr: BFB Sample ID: 22	rganics (GRO)	Result ND 810	PQL 5.0	SPK value 1000	SPK Ref Val	%REC 80.5	LowLimit 37.7 PA Method	HighLimit	%RPD		Qual	
Analyte Gasoline Range Or Surr: BFB Sample ID: 22 Client ID: BH	rganics (GRO) 208156-005ams	Result ND 810	PQL 5.0 Type: M h ID: 69	SPK value 1000 3 266	SPK Ref Val	%REC 80.5	LowLimit 37.7 PA Method	HighLimit	%RPD		Qual	
Analyte Gasoline Range Or Surr: BFB Sample ID: 22 Client ID: BH	rganics (GRO) 208156-005ams HA5	Result ND 810 Samp ⁻ Batc	PQL 5.0 Type: M h ID: 69	SPK value 1000 3 266	SPK Ref Val	%REC 80.5 ttCode: EF RunNo: 90 SeqNo: 32	LowLimit 37.7 PA Method	HighLimit 212 8015D: Gasol	%RPD		Qual	

206

37.7

212

Sample ID: 2208156-005amsd	SampTy	SampType: MSD TestCode: EPA Method 8015D: Gasoline Range								
Client ID: BHA5	Batch	ID: 692	266	F	RunNo: 9(0070				
Prep Date: 8/4/2022	Analysis Da	ate: 8/	5/2022	S	SeqNo: 32	210372	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	27 2000	4.8	24.04 961.5	0	112 210	70 37.7	130 212	0.216 0	20 0	
Sample ID: Ics-69266	SampTy	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch	ID: 692	266	RunNo: 90070						
Prep Date: 8/4/2022	Analysis Da	ate: 8/	5/2022	5	SeqNo: 32	210414	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	110	72.3	137			
Surr: BFB	2200		1000		215	37.7	212			S
Sample ID: mb-69266	SampTy	/pe: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	1	
Client ID: PBS	Batch	ID: 692	266	F	RunNo: 9(0070				
Prep Date: 8/4/2022	Analysis Da	ate: 8/	5/2022	S	SeqNo: 32	210416	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

970.9

Qualifiers:

Value exceeds Maximum Contaminant Level. *

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

PQL Practical Quanitative Limit

- % Recovery outside of range due to dilution or matrix interference S
- в Analyte detected in the associated Method Blank

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit

2208156

11-Aug-22

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: GHD M Project: Abby B	lidland LF State 1									
Sample ID: mb-69266	SampT	уре: МЕ	LK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	•	
Client ID: PBS	Batcl	n ID: 692	266	RunNo: 90070						
Prep Date: 8/4/2022	Analysis E	Date: 8/	5/2022	5	SeqNo: 32	210416	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		108	37.7	212			

Qualifiers:

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- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
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- PQL Practical Quanitative Limit
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- 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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2208156
	11 4.00 22

11-Aug-22

Client:	GHD Mid										
Project:	Abby BLF	F State 1									
Sample ID:	lcs-69246	Samp	Гуре: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID:	LCSS	Batc	h ID: 692	246	F	RunNo: 9(0064				
Prep Date:	8/3/2022	Analysis [Date: 8/	5/2022	S	SeqNo: 32	210052	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.87	0.025	1.000	0	87.1	80	120			
Toluene		0.88	0.050	1.000	0	88.0	80	120			
Ethylbenzene		0.87	0.050	1.000	0	87.3	80	120			
Xylenes, Total		2.6	0.10	3.000	0	86.8	80	120			
Surr: 4-Bron	nofluorobenzene	0.79		1.000		78.6	70	130			
Sample ID:	mb-69246	Samp ⁻	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID:	PBS	Batc	h ID: 692	246	F	RunNo: 9(0064				
Prep Date:	8/3/2022	Analysis [Date: 8/	5/2022	S	SeqNo: 32	210053	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.025								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Bron	nofluorobenzene	0.77		1.000		77.2	70	130			
Sample ID:	2208156-006ams	Samp	Гуре: МS	;	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID:	BHA6	Batc	h ID: 692	266	F	RunNo: 9(0070				
Prep Date:	8/4/2022	Analysis [Date: 8/	5/2022	S	SeqNo: 32	210422	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.96	0.024	0.9524	0	101	68.8	120			
Toluene		0.99	0.048	0.9524	0	104	73.6	124			
Ethylbenzene		1.0	0.048	0.9524	0	105	72.7	129			
Xylenes, Total		3.0	0.095	2.857	0	104	75.7	126			
Surr: 4-Bron	nofluorobenzene	0.95		0.9524		99.6	70	130			
Sample ID:	2208156-006amsd	Samp	Гуре: МS	D	Tes	tCode: EF	PA Method	8021B: Volati	iles		
		Poto	h ID: 692	266	F	RunNo: 9(0070				
Client ID:	BHA6	Daic	111D. 094		SeqNo: 3210423 Units: mg/Kg						
Client ID: Prep Date:	BHA6 8/4/2022	Analysis [S	SeqNo: 32	210423	Units: mg/K	g		
				5/2022	SPK Ref Val	SeqNo: 32 %REC	210423 LowLimit	Units: mg/K HighLimit	í g %RPD	RPDLimit	Qual
Prep Date: Analyte		Analysis [Date: 8/	5/2022				_	-	RPDLimit 20	Qual
Prep Date: Analyte Benzene		Analysis [Result	Date: 8/ 9 PQL	5/2022 SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD		Qual
Prep Date: Analyte Benzene Toluene		Analysis I Result 1.0	Date: 8/ PQL 0.024	5/2022 SPK value 0.9662	SPK Ref Val 0	%REC 103	LowLimit 68.8	HighLimit 120	%RPD 3.79	20	Qual
Prep Date:	8/4/2022	Analysis I Result 1.0 1.0	Date: 8/ PQL 0.024 0.048	5/2022 SPK value 0.9662 0.9662	SPK Ref Val 0 0	%REC 103 107	LowLimit 68.8 73.6	HighLimit 120 124	%RPD 3.79 3.81	20 20	Qual

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

GHD Midland

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

1.0

1.000

Project: Abby B	LF State 1									
Sample ID: LCS-69266	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: LCSS	Batch	n ID: 692	266	F	RunNo: 9(070				
Prep Date: 8/4/2022	Analysis D)ate: 8/	8/5/2022 SeqNo: 3210464 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	97.6	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.8	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		104	70	130			
Sample ID: mb-69266	SampT	уре: МЕ	BLK	Tes	tCode: EF	A Method	8021B: Volati	les		
Client ID: PBS	Batch	n ID: 692	266	F	RunNo: 9(070				
Prep Date: 8/4/2022	Analysis D)ate: 8/	5/2022	S	SeqNo: 32	210466	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								

102

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

Surr: 4-Bromofluorobenzene

- 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

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WO#: 2208156

11-Aug-22

ANAL	RONMENT		TE	ll Environme L: 505-345-3 Website: www	4901 Albuquerqi 3975 FAX: 5	Hawkins ve, NM 87 05-345-4	NE 109 San 107	nple Log-Ir	n Chec	Page 4	8
Client Name:	GHD Midla	nd	Work	Order Num	ber: 2208	156		Rcp	tNo: 1		
Received By:	Juan Roja	as	8/3/202	2 7:15:00 A	M		Guarda G				
Completed By:	Sean Livi	ngston	8/3/202	2 8:54:27 A	M		5 /	nt			
Reviewed By:	Cmc	_	8/3/2	?E				Jun -			
Chain of Cu	<u>stody</u>										
1. Is Chain of C	Custody comp	lete?			Yes	\checkmark	No 🗌	Not Present			
2. How was the	e sample deliv	vered?			<u>Couri</u>	er					
<u>Log In</u> 3. Was an atte	mpt made to o	cool the sampl	es?		Yes	✓	No 🗌	NA			
4. Were all sam	nples received	l at a temperat	ure of >0° C t	to 6.0°C	Yes	V	No 🗌	NA			
5. Sample(s) in	n proper conta	iner(s)?			Yes	~	No 🗌				
6. Sufficient sar	mple volume f	or indicated te	st(s)?		Yes	✓	No 🗌				
7. Are samples	(except VOA	and ONG) pro	perly preserve	ed?	Yes	✓	No 🗌				
8. Was preserv	ative added to	bottles?			Yes		No 🗹	na [
9. Received at I	least 1 vial wit	h headspace <	<1/4" for AQ V	OA?	Yes		No 🗌	NA			
10. Were any sa	mple containe	ers received br	oken?		Yes		No 🔽	# of preserved		/	1
11. Does paperw (Note discrep		ttle labels? ain of custody)			Yes		No 🗌	bottles checked for pH: (<	:2 or ≥12 un	lless noted)	
12. Are matrices	correctly iden	tified on Chair	of Custody?		Yes		No 🗌	Adjusted?			
13. Is it clear what	at analyses w	ere requested?	?		Yes	✓	No 🗌		VDr	0.00	
14. Were all hold (If no, notify o	ling times able customer for a				Yes		No 🗌	Checked b	y: NFU	<u>8.</u> 03.	4
Special Hand	lling (if app	olicable)									
15. Was client n	otified of all d	iscrepancies w	vith this order?		Yes		No 🗌	NA [
Persor	n Notified:	[Date	:						
By Wh	iom:			Via:	eMa	I 🗌 Ph	none 🗌 Fax	In Person			
Regard	ding:	[r		
Client	Instructions:	[
16. Additional re	emarks:										
17. <u>Cooler Info</u>	rmation										
Cooler No		Condition	Seal Intact	Seal No	Seal Da	te s	Signed By	- or we we we we wanted a set of the set of			
1 2	5.9 2.1	Good									
4	2.1	Good		1							

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Additional and the second seco	TPH:8015D(GRO / DRO / MRO) 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS CI, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄ 8260 (VOA) 8260 (VOA) 70tal Coliform (Present/Absent) Total Coliform (Present/Absent)	K	lity. Any sub-contracted data will be clearly notated on the analytical report.
Turn-Around Time: K Standard 本Rush Sdays Project Name: 人的的 BLF State 井工 Project #: 1122の612	Project Manager: JT Murrey Tom Larson Sampler: Lian Giersdorf On Ice: Erres No # of Coolers: 2 Cooler Temp(Instuding cr): 5 9-0:5 7 (°C) Cooler Temp(Instuding cr): 5 9-0:5 7 (°C) Container Preservative HEAL No. Type and # Type 22-05 15 (°C)	001 002 003 003 005 006 006 006 Via: Date Time Via: Date Time Via: Date Time	2
Client: GHD Client: GHD Mailing Address: 324 W. Na h St. Su; Fe log Artes ia, NM 88210 Phone #: (505)377- 4218	:: JT. Murrey & ちょく. com le: □ Level 4 (Full Validation) □ Az Compliance □ Other)		If necessary, samples submitted to Hall Environmental may be subcor



August 15, 2022

Tom Larson GHD Midland 2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086 FAX:

RE: Abby BLF State 1

OrderNo.: 2208247

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 11 sample(s) on 8/4/2022 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208247

Date Reported: 8/15/2022

CLIENT: GHD Midland		Cl	ient Sample II	D: BH	-IB-1					
Project: Abby BLF State 1	Collection Date: 8/2/2022 1:00:00 PM									
Lab ID: 2208247-001	Matrix: SOIL		Received Dat	e: 8/4	4/2022 7:04:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analys	t: JTT				
Chloride	ND	60	mg/Kg	20	8/8/2022 12:43:45 PM	69313				
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analys	t: DGH				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/5/2022 1:34:35 PM	69271				
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	8/5/2022 1:34:35 PM	69271				
Surr: DNOP	45.3	21-129	%Rec	1	8/5/2022 1:34:35 PM	69271				
EPA METHOD 8015D: GASOLINE RAM	IGE				Analys	t: BRM				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/6/2022 4:33:23 AM	69266				
Surr: BFB	98.6	37.7-212	%Rec	1	8/6/2022 4:33:23 AM	69266				
EPA METHOD 8021B: VOLATILES					Analys	t: BRM				
Benzene	ND	0.024	mg/Kg	1	8/6/2022 4:33:23 AM	69266				
Toluene	ND	0.049	mg/Kg	1	8/6/2022 4:33:23 AM	69266				
Ethylbenzene	ND	0.049	mg/Kg	1	8/6/2022 4:33:23 AM	69266				
Xylenes, Total	ND	0.097	mg/Kg	1	8/6/2022 4:33:23 AM	69266				
Surr: 4-Bromofluorobenzene	95.9	70-130	%Rec	1	8/6/2022 4:33:23 AM	69266				

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208247

Date Reported: 8/15/2022

CLIENT: GHD Midland		Cl	ient Sample II	D: BH	-IB-2					
Project: Abby BLF State 1	Collection Date: 8/2/2022 1:05:00 PM									
Lab ID: 2208247-002	Matrix: SOIL	Received Date: 8/4/2022 7:04:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analys	st: JTT				
Chloride	64	60	mg/Kg	20	8/8/2022 1:20:58 PM	69313				
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analys	st: DGH				
Diesel Range Organics (DRO)	210	14	mg/Kg	1	8/5/2022 1:48:27 PM	69271				
Motor Oil Range Organics (MRO)	57	47	mg/Kg	1	8/5/2022 1:48:27 PM	69271				
Surr: DNOP	60.0	21-129	%Rec	1	8/5/2022 1:48:27 PM	69271				
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	st: BRM				
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	8/6/2022 4:57:08 AM	69266				
Surr: BFB	99.2	37.7-212	%Rec	5	8/6/2022 4:57:08 AM	69266				
EPA METHOD 8021B: VOLATILES					Analys	st: BRM				
Benzene	ND	0.12	mg/Kg	5	8/6/2022 4:57:08 AM	69266				
Toluene	ND	0.24	mg/Kg	5	8/6/2022 4:57:08 AM	69266				
Ethylbenzene	ND	0.24	mg/Kg	5	8/6/2022 4:57:08 AM	69266				
Xylenes, Total	ND	0.49	mg/Kg	5	8/6/2022 4:57:08 AM	69266				
Surr: 4-Bromofluorobenzene	94.7	70-130	%Rec	5	8/6/2022 4:57:08 AM	69266				

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208247

Date Reported: 8/15/2022

CLIENT: GHD Midland		Cl	ient Sample II	D: BH	-IB-3				
Project: Abby BLF State 1	Collection Date: 8/2/2022 1:10:00 PM								
Lab ID: 2208247-003	Matrix: SOIL		4/2022 7:04:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	st: JTT			
Chloride	330	60	mg/Kg	20	8/8/2022 1:33:22 PM	69313			
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analys	st: DGH			
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/5/2022 2:02:24 PM	69271			
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	8/5/2022 2:02:24 PM	69271			
Surr: DNOP	62.5	21-129	%Rec	1	8/5/2022 2:02:24 PM	69271			
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	st: BRM			
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/6/2022 5:20:52 AM	69266			
Surr: BFB	97.4	37.7-212	%Rec	1	8/6/2022 5:20:52 AM	69266			
EPA METHOD 8021B: VOLATILES					Analys	st: BRM			
Benzene	ND	0.023	mg/Kg	1	8/6/2022 5:20:52 AM	69266			
Toluene	ND	0.046	mg/Kg	1	8/6/2022 5:20:52 AM	69266			
Ethylbenzene	ND	0.046	mg/Kg	1	8/6/2022 5:20:52 AM	69266			
Xylenes, Total	ND	0.093	mg/Kg	1	8/6/2022 5:20:52 AM	69266			
Surr: 4-Bromofluorobenzene	93.8	70-130	%Rec	1	8/6/2022 5:20:52 AM	69266			

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208247

Date Reported: 8/15/2022

CLIENT: GHD Midland Project: Abby BLF State 1	Client Sample ID: BHB-4 Collection Date: 8/2/2022 1:15:00 PM								
Lab ID: 2208247-004	Matrix: SOILReceived Date: 8/4/2022 7:04:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	st: JTT			
Chloride	130	60	mg/Kg	20	8/8/2022 1:45:46 PM	69313			
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	st: DGH			
Diesel Range Organics (DRO)	120	14	mg/Kg	1	8/5/2022 2:16:16 PM	69271			
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/5/2022 2:16:16 PM	69271			
Surr: DNOP	70.3	21-129	%Rec	1	8/5/2022 2:16:16 PM	69271			
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	st: BRM			
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	8/6/2022 5:44:37 AM	69266			
Surr: BFB	99.1	37.7-212	%Rec	5	8/6/2022 5:44:37 AM	69266			
EPA METHOD 8021B: VOLATILES					Analys	st: BRM			
Benzene	ND	0.12	mg/Kg	5	8/6/2022 5:44:37 AM	69266			
Toluene	ND	0.24	mg/Kg	5	8/6/2022 5:44:37 AM	69266			
Ethylbenzene	ND	0.24	mg/Kg	5	8/6/2022 5:44:37 AM	69266			
Xylenes, Total	ND	0.49	mg/Kg	5	8/6/2022 5:44:37 AM	69266			
Surr: 4-Bromofluorobenzene	95.4	70-130	%Rec	5	8/6/2022 5:44:37 AM	69266			

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208247

Date Reported: 8/15/2022

CLIENT: GHD Midland		Cl	ient Sample II	D: BH	HC-1				
Project: Abby BLF State 1	Collection Date: 8/2/2022 12:00:00 PM								
Lab ID: 2208247-005	Matrix: SOIL	Received Date: 8/4/2022 7:04:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	st: JTT			
Chloride	240	60	mg/Kg	20	8/8/2022 1:58:11 PM	69313			
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analys	st: DGH			
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/5/2022 2:30:03 PM	69271			
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/5/2022 2:30:03 PM	69271			
Surr: DNOP	61.5	21-129	%Rec	1	8/5/2022 2:30:03 PM	69271			
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	st: BRM			
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	8/6/2022 6:08:18 AM	69266			
Surr: BFB	102	37.7-212	%Rec	5	8/6/2022 6:08:18 AM	69266			
EPA METHOD 8021B: VOLATILES					Analys	st: BRM			
Benzene	ND	0.12	mg/Kg	5	8/6/2022 6:08:18 AM	69266			
Toluene	ND	0.24	mg/Kg	5	8/6/2022 6:08:18 AM	69266			
Ethylbenzene	ND	0.24	mg/Kg	5	8/6/2022 6:08:18 AM	69266			
Xylenes, Total	ND	0.48	mg/Kg	5	8/6/2022 6:08:18 AM	69266			
Surr: 4-Bromofluorobenzene	97.7	70-130	%Rec	5	8/6/2022 6:08:18 AM	69266			

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208247

Date Reported: 8/15/2022

CLIENT: GHD Midland		Client Sample ID: BHC-2									
Project: Abby BLF State 1	Collection Date: 8/2/2022 11:05:00 AM										
Lab ID: 2208247-006	Matrix: SOIL		Received Date: 8/4/2022 7:04:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analys	st: JTT					
Chloride	70	60	mg/Kg	20	8/8/2022 2:10:35 PM	69313					
EPA METHOD 8015M/D: DIESEL RAM	NGE ORGANICS				Analys	st: DGH					
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/5/2022 2:43:51 PM	69271					
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/5/2022 2:43:51 PM	69271					
Surr: DNOP	66.7	21-129	%Rec	1	8/5/2022 2:43:51 PM	69271					
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	st: BRM					
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/6/2022 6:31:59 AM	69266					
Surr: BFB	102	37.7-212	%Rec	1	8/6/2022 6:31:59 AM	69266					
EPA METHOD 8021B: VOLATILES					Analys	st: BRM					
Benzene	ND	0.023	mg/Kg	1	8/6/2022 6:31:59 AM	69266					
Toluene	ND	0.047	mg/Kg	1	8/6/2022 6:31:59 AM	69266					
Ethylbenzene	ND	0.047	mg/Kg	1	8/6/2022 6:31:59 AM	69266					
Xylenes, Total	ND	0.094	mg/Kg	1	8/6/2022 6:31:59 AM	69266					
Surr: 4-Bromofluorobenzene	98.6	70-130	%Rec	1	8/6/2022 6:31:59 AM	69266					

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208247

Date Reported: 8/15/2022

CLIENT: GHD Midland		Cli	ient Sample II	D: BH	HC-3					
Project: Abby BLF State 1	Collection Date: 8/2/2022 11:10:00 AM									
Lab ID: 2208247-007	Matrix: SOIL		Received Date: 8/4/2022 7:04:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analys	st: JTT				
Chloride	210	60	mg/Kg	20	8/8/2022 2:47:48 PM	69313				
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	st: DGH				
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	8/5/2022 2:57:43 PM	69271				
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	8/5/2022 2:57:43 PM	69271				
Surr: DNOP	60.8	21-129	%Rec	1	8/5/2022 2:57:43 PM	69271				
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	st: BRM				
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	8/6/2022 6:55:41 AM	69266				
Surr: BFB	101	37.7-212	%Rec	5	8/6/2022 6:55:41 AM	69266				
EPA METHOD 8021B: VOLATILES					Analys	st: BRM				
Benzene	ND	0.12	mg/Kg	5	8/6/2022 6:55:41 AM	69266				
Toluene	ND	0.24	mg/Kg	5	8/6/2022 6:55:41 AM	69266				
Ethylbenzene	ND	0.24	mg/Kg	5	8/6/2022 6:55:41 AM	69266				
Xylenes, Total	ND	0.49	mg/Kg	5	8/6/2022 6:55:41 AM	69266				
Surr: 4-Bromofluorobenzene	97.7	70-130	%Rec	5	8/6/2022 6:55:41 AM	69266				

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208247

Date Reported: 8/15/2022

CLIENT: GHD Midland	Client Sample ID: BHC-4										
Project: Abby BLF State 1	Collection Date: 8/2/2022 11:15:00 AM										
Lab ID: 2208247-008	Matrix: SOIL		Received Dat	e: 8/4	4/2022 7:04:00 AM						
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analys	st: JTT					
Chloride	ND	60	mg/Kg	20	8/8/2022 3:00:12 PM	69313					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	st: DGH					
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	8/5/2022 3:11:47 PM	69271					
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	8/5/2022 3:11:47 PM	69271					
Surr: DNOP	66.1	21-129	%Rec	1	8/5/2022 3:11:47 PM	69271					
EPA METHOD 8015D: GASOLINE RANG	E				Analys	st: BRM					
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/6/2022 7:19:23 AM	69266					
Surr: BFB	101	37.7-212	%Rec	1	8/6/2022 7:19:23 AM	69266					
EPA METHOD 8021B: VOLATILES					Analys	st: BRM					
Benzene	ND	0.025	mg/Kg	1	8/6/2022 7:19:23 AM	69266					
Toluene	ND	0.049	mg/Kg	1	8/6/2022 7:19:23 AM	69266					
Ethylbenzene	ND	0.049	mg/Kg	1	8/6/2022 7:19:23 AM	69266					
Xylenes, Total	ND	0.099	mg/Kg	1	8/6/2022 7:19:23 AM	69266					
Surr: 4-Bromofluorobenzene	98.2	70-130	%Rec	1	8/6/2022 7:19:23 AM	69266					

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208247

Date Reported: 8/15/2022

CLIENT: GHD Midland Project: Abby BLF State 1	Client Sample ID: BHD-2 Collection Date: 8/2/2022 2:05:00 PM									
Lab ID: 2208247-009	Matrix: SOIL									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analys	st: JTT				
Chloride	ND	60	mg/Kg	20	8/8/2022 3:12:37 PM	69313				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	st: DGH				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/8/2022 3:16:19 PM	69285				
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/8/2022 3:16:19 PM	69285				
Surr: DNOP	96.0	21-129	%Rec	1	8/8/2022 3:16:19 PM	69285				
EPA METHOD 8015D: GASOLINE RANG	E				Analys	st: BRM				
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/6/2022 8:53:56 AM	69269				
Surr: BFB	103	37.7-212	%Rec	1	8/6/2022 8:53:56 AM	69269				
EPA METHOD 8021B: VOLATILES					Analys	st: BRM				
Benzene	ND	0.023	mg/Kg	1	8/6/2022 8:53:56 AM	69269				
Toluene	ND	0.047	mg/Kg	1	8/6/2022 8:53:56 AM	69269				
Ethylbenzene	ND	0.047	mg/Kg	1	8/6/2022 8:53:56 AM	69269				
Xylenes, Total	ND	0.093	mg/Kg	1	8/6/2022 8:53:56 AM	69269				
Surr: 4-Bromofluorobenzene	98.2	70-130	%Rec	1	8/6/2022 8:53:56 AM	69269				

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208247

Date Reported: 8/15/2022

CLIENT: GHD Midland		Cl	ient Sample II	D: BH	HD-3						
Project: Abby BLF State 1	Collection Date: 8/2/2022 2:10:00 PM										
Lab ID: 2208247-010	Matrix: SOIL	4/2022 7:04:00 AM									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analys	t: JTT					
Chloride	ND	60	mg/Kg	20	8/8/2022 3:25:01 PM	69313					
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: DGH					
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/8/2022 3:57:52 PM	69285					
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/8/2022 3:57:52 PM	69285					
Surr: DNOP	94.2	21-129	%Rec	1	8/8/2022 3:57:52 PM	69285					
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	t: BRM					
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/6/2022 10:05:05 AM	69269					
Surr: BFB	102	37.7-212	%Rec	1	8/6/2022 10:05:05 AM	69269					
EPA METHOD 8021B: VOLATILES					Analys	t: BRM					
Benzene	ND	0.025	mg/Kg	1	8/6/2022 10:05:05 AM	69269					
Toluene	ND	0.049	mg/Kg	1	8/6/2022 10:05:05 AM	69269					
Ethylbenzene	ND	0.049	mg/Kg	1	8/6/2022 10:05:05 AM	69269					
Xylenes, Total	ND	0.098	mg/Kg	1	8/6/2022 10:05:05 AM	69269					
Surr: 4-Bromofluorobenzene	98.6	70-130	%Rec	1	8/6/2022 10:05:05 AM	69269					

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208247

Date Reported: 8/15/2022

CLIENT: GHD Midland	Client Sample ID: BHD-4										
Project: Abby BLF State 1	Collection Date: 8/2/2022 2:15:00 PM										
Lab ID: 2208247-011	Matrix: SOIL		Received Date: 8/4/2022 7:04:00 AM								
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analys	t: JTT					
Chloride	ND	60	mg/Kg	20	8/8/2022 3:37:25 PM	69313					
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: DGH					
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/8/2022 4:11:44 PM	69285					
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/8/2022 4:11:44 PM	69285					
Surr: DNOP	99.1	21-129	%Rec	1	8/8/2022 4:11:44 PM	69285					
EPA METHOD 8015D: GASOLINE RANG)E				Analys	t: BRM					
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/6/2022 12:03:09 PM	69269					
Surr: BFB	103	37.7-212	%Rec	1	8/6/2022 12:03:09 PM	69269					
EPA METHOD 8021B: VOLATILES					Analys	t: BRM					
Benzene	ND	0.024	mg/Kg	1	8/6/2022 12:03:09 PM	69269					
Toluene	ND	0.048	mg/Kg	1	8/6/2022 12:03:09 PM	69269					
Ethylbenzene	ND	0.048	mg/Kg	1	8/6/2022 12:03:09 PM	69269					
Xylenes, Total	ND	0.097	mg/Kg	1	8/6/2022 12:03:09 PM	69269					
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	8/6/2022 12:03:09 PM	69269					

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Client: Project:	0112	Midland BLF State 1								
Sample ID:	MB-69313	SampType:	mblk	Tes	tCode: EPA	Method	300.0: Anions	6		
Client ID:	PBS	Batch ID:	69313	F	RunNo: 901	09				
Prep Date:	8/8/2022	Analysis Date:	8/8/2022	ę	SeqNo: 3212	2358	Units: mg/K	g		
Analyte		Result PQ	_ SPK value	SPK Ref Val	%REC I	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND 1	.5							
Sample ID:	LCS-69313	SampType:	cs	Tes	tCode: EPA	Method	300.0: Anions	;		
Client ID:	LCSS	Batch ID:	69313	F	RunNo: 901	09				
Prep Date:	8/8/2022	Analysis Date:	8/8/2022	\$	SeqNo: 3212	2359	Units: mg/K	g		
Analyte		Result PQ	_ SPK value	SPK Ref Val	%REC I	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14 1	.5 15.00	0	92.9	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

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2208247

15-Aug-22

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

	WO#:	2208247	
ronmental Analysis Laboratory, Inc.		15-Aug-22	

Client: GHD Mid Project: Abby BLF										
Sample ID: MB-69271	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	h ID: 692	271	F	RunNo: 9(0075				
Prep Date: 8/4/2022	Analysis D	Date: 8/	5/2022	S	SeqNo: 32	210924	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.4		10.00		83.7	21	129			
Sample ID: LCS-69271	SampT	Type: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	h ID: 692	271	F	RunNo: 9(0075				
Prep Date: 8/4/2022	Analysis D	Date: 8/	5/2022	S	SeqNo: 32	210925	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	89.3	64.4	127			
Surr: DNOP	3.9		5.000		78.9	21	129			
Sample ID: MB-69285	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	h ID: 692	285	F	RunNo: 9(0121				
Prep Date: 8/5/2022	Analysis D	Date: 8/ 8	8/2022	S	SeqNo: 32	212781	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		94.1	21	129			
Sample ID: LCS-69285	SampT	Гуре: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	h ID: 692	285	F	RunNo: 9(0121				
Prep Date: 8/5/2022	Analysis D	Date: 8/ 8	8/2022	S	SeqNo: 32	212782	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	15	50.00	0	82.2	64.4	127			
Surr: DNOP	4.7		5.000		93.1	21	129			
Sample ID: 2208247-009AMS	SampT	Гуре: МS	5	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BHD-2	Batch	h ID: 692	285	F	RunNo: 9(0121				
Prep Date: 8/5/2022	Analysis D	Date: 8/ 8	8/2022	S	SeqNo: 32	212784	Units: mg/K	g		
										- · ·
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte Diesel Range Organics (DRO)	Result 42	PQL 15	SPK value 48.40	SPK Ref Val 0	%REC 87.7	LowLimit 36.1	HighLimit 154	%RPD	RPDLimit	Qual

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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	GHD Mid Abby BLF										
Sample ID:	2208247-009AMSD	SampTyp	e: MS	SD	Tes	tCode: EF	PA Method	8015M/D: Dies	el Range	Organics	
Client ID:	BHD-2	Batch II	D: 692	285	F	RunNo: 9(0121				
Prep Date:	8/5/2022	Analysis Dat	e: 8/	8/2022	S	SeqNo: 32	212785	Units: mg/Kg	J		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	39	14	45.25	0	86.4	36.1	154	8.20	33.9	
Surr: DNOP		4.1		4.525		91.3	21	129	0	0	
Sample ID:	LCS-69340	SampTyp	e: LC	S	Tes	tCode: EF	PA Method	8015M/D: Dies	el Range	Organics	
Client ID:	LCSS	Batch II	D: 693	340	F	RunNo: 9(0104				
Client ID: Prep Date:	LCSS 8/8/2022	Batch II Analysis Dat				RunNo: 9(SeqNo: 3 2		Units: % Rec			
		Analysis Dat		9/2022				Units: %Rec HighLimit	%RPD	RPDLimit	Qual
Prep Date:	8/8/2022	Analysis Dat	e: 8/	9/2022	ç	SeqNo: 32	212922		%RPD	RPDLimit	Qual
Prep Date: Analyte Surr: DNOP	8/8/2022	Analysis Dat Result	e: 8/	9/2022 SPK value 5.000	SPK Ref Val	SeqNo: 32 %REC 91.3	212922 LowLimit 21	HighLimit			Qual
Prep Date: Analyte Surr: DNOP	8/8/2022	Analysis Dat Result 4.6	e: 8/ PQL De: ME	9/2022 SPK value 5.000 BLK	SPK Ref Val	SeqNo: 32 %REC 91.3	212922 LowLimit 21 PA Method	HighLimit 129			Qual
Prep Date: Analyte Surr: DNOP	8/8/2022 MB-69340	Analysis Dat Result 4.6 SampTyp	e: 8 / PQL De: ME D: 69 :	9/2022 SPK value 5.000 BLK 340	SPK Ref Val Tes	SeqNo: 32 %REC 91.3 tCode: EF	212922 LowLimit 21 PA Method 0104	HighLimit 129			Qual
Prep Date: Analyte Surr: DNOP Sample ID: Client ID:	8/8/2022 MB-69340 PBS	Analysis Dat Result 4.6 SampTyp Batch II Analysis Dat	e: 8 / PQL De: ME D: 69 :	9/2022 SPK value 5.000 BLK 340 9/2022	SPK Ref Val Tes	SeqNo: 32 %REC 91.3 tCode: EF	212922 LowLimit 21 PA Method 0104	HighLimit 129 8015M/D: Dies			Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

2208247

15-Aug-22

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	22082	47

15-Aug-22

Client: GHD Mid	dland								
Project: Abby BL	F State 1								
	0T		.	0.4					
Sample ID: 2208247-009ams	SampType: MS					8015D: Gasol	ine Range		
Client ID: BHD-2	Batch ID: 692			RunNo: 9(
Prep Date: 8/4/2022	Analysis Date: 8/6	6/2022	5	SeqNo: 32	210393	Units: mg/K	g		
Analyte	Result PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	29 4.7 2100	23.28 931.1	0	124 221	70 37.7	130 212			S
	2100	331.1		221	57.7	212			
Sample ID: 2208247-009amsd	SampType: MS	D	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: BHD-2	Batch ID: 692	69	F	RunNo: 90	0070				
Prep Date: 8/4/2022	Analysis Date: 8/6	6/2022	S	SeqNo: 32	210394	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26 4.6	23.19	0	113	70	130	10.1	20	
Surr: BFB	2000	927.6		212	37.7	212	0	0	
Sample ID: Ics-69266	SampType: LCS	S	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: LCSS	Batch ID: 692	66	F	RunNo: 90	0070				
Prep Date: 8/4/2022	Analysis Date: 8/5	5/2022	S	SeqNo: 32	210414	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27 5.0	25.00	0	110	72.3	137			
Surr: BFB	2200	1000		215	37.7	212			S
Sample ID: Ics-69269	SampType: LCS	S	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: LCSS	Batch ID: 692	69	F	RunNo: 90	0070				
Prep Date: 8/4/2022	Analysis Date: 8/6	6/2022	S	SeqNo: 32	210415	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25 5.0	25.00	0	101	72.3	137			
Surr: BFB	2000	1000		200	37.7	212			
Sample ID: mb-69266	SampType: MB	LK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: PBS	Batch ID: 692	66	F	RunNo: 9(0070		-		
Prep Date: 8/4/2022	Analysis Date: 8/5	5/2022	S	SeqNo: 32	210416	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0								
Surr: BFB	1100	1000		108	37.7	212			
Sample ID: mb-69269	SampType: MB	LK	Tes	tCode: EF	A Method	8015D: Gasol	ine Rance		
Client ID: PBS	Batch ID: 692			RunNo: 90			- J-		
Prep Date: 8/4/2022	Analysis Date: 8/6			SeqNo: 32		Units: mg/K	g		
Analyte				%REC		U	%RPD	RPDLimit	Qual
Analyte	Result PQL	SEL VAIUE	SPK Ref Val	70REU	LowLimit	HighLimit	70RPD	REDTIU	Qual

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

2208247

15-Aug-22

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	D Midland y BLF State 1									
Sample ID: mb-69269 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range										
Client ID: PBS	PBS Batch ID: 69269			F	RunNo: 90	070				
Prep Date: 8/4/2022	Analysis [Analysis Date: 8/6/2022		SeqNo: 3210417			Units: mg/K			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRC)) ND	5.0								
Surr: BFB	1000		1000		103	37.7	212			

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

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GHD Midland

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2208247

15-Aug-22

Project:	Abby BLF	F State 1									
Sample ID:	2208247-010ams	SampType: MS TestCode: EPA Method 8021B: Volatiles									
Client ID:	BHD-3	Batch	n ID: 692	269	F	RunNo: 9(0070				
Prep Date:	8/4/2022	Analysis D	Date: 8/6	6/2022	S	SeqNo: 32	210444	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.1	0.024	0.9737	0	108	68.8	120			
Toluene		1.1	0.049	0.9737	0	113	73.6	124			
Ethylbenzene		1.1	0.049	0.9737	0	115	72.7	129			
Xylenes, Total		3.3	0.097	2.921	0	114	75.7	126			
Surr: 4-Bron	nofluorobenzene	0.99		0.9737		102	70	130			
Sample ID:	Cample ID: 2208247-010amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles										
Client ID:	BHD-3	Batch	n ID: 692	269	F	RunNo: 9(0070				
Prep Date:	8/4/2022	Analysis E	Date: 8/6	6/2022	Ś	SeqNo: 32	210445	Units: mg/k	٤g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.1	0.024	0.9775	0	113	68.8	120	4.28	20	
Toluene		1.1	0.049	0.9775	0	117	73.6	124	4.16	20	
Ethylbenzene		1.2	0.049	0.9775	0	120	72.7	129	4.64	20	
Xylenes, Total		3.5	0.098	2.933	0	120	75.7	126	5.21	20	
Surr: 4-Bron	nofluorobenzene	0.99		0.9775		101	70	130	0	0	
Sample ID:	LCS-69266	SampT	ype: LC	S	Tes	stCode: EF	PA Method	8021B: Volat	iles		
Client ID:	LCSS	Batch	n ID: 692	266	F	RunNo: 9(0070				
Prep Date:	8/4/2022	Analysis E	Date: 8/5	5/2022	SeqNo: 3210464			Units: mg/k	٤g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.98	0.025	1.000	0	97.6	80	120			
Toluene		1.0	0.050	1.000	0	101	80	120			
Ethylbenzene		1.0	0.050	1.000	0	99.8	80	120			
Xylenes, Total		3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bron	nofluorobenzene	1.0		1.000		104	70	130			
Sample ID:	LCS-69269	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID:	LCSS	Batch	n ID: 692	269	F	RunNo: 9(0070				
Prep Date:	8/4/2022	Analysis E	Date: 8/6	6/2022	Ś	SeqNo: 32	210465	Units: mg/k	٤g		
Analyte		Result	PQL	SPK value		%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.96	0.025	1.000	0	96.0	80	120			
Toluene		0.99	0.050	1.000	0	99.1	80	120			
Ethylbenzene		0.99	0.050	1.000	0	98.6	80	120			
Xylenes, Total		3.0	0.10	3.000	0	98.6	80	120			
Surr: 4-Brom	nofluorobenzene	1.0		1.000		101	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 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

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	WO#:	2208247	
onmental Analysis Laboratory, Inc.		15-Aug-22	

	Iidland SLF State 1									
Sample ID: mb-69266	mb-69266 SampType: MBLK				TestCode: EPA Method 8021B: Volatiles					
Client ID: PBS	Batch ID	6 9266	F	RunNo: 90070						
Prep Date: 8/4/2022	Analysis Date	e: 8/5/2022	SeqNo: 3210466			Units: mg/Kg				
Analyte	Result P	PQL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND 0.	.025								
Toluene	ND 0.	.050								
Ethylbenzene	ND 0.	.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0	1.000		102	70	130				
				TestCode: EPA Method 8021B: Volatiles						
Sample ID: mb-69269	SampType	e: MBLK	Tes	tCode: EF	A Method	8021B: Volati	les			
Sample ID: mb-69269 Client ID: PBS	SampType Batch ID			tCode: EF RunNo: 90		8021B: Volati	les			
		69269	F		0070	8021B: Volati Units: mg/K				
Client ID: PBS	Batch ID Analysis Date): 69269 9: 8/6/2022	F	RunNo: 90	0070			RPDLimit	Qual	
Client ID: PBS Prep Date: 8/4/2022	Batch ID Analysis Date Result P): 69269 9: 8/6/2022	F	RunNo: 90 SeqNo: 32	0070 210467	Units: mg/K	g	RPDLimit	Qual	
Client ID: PBS Prep Date: 8/4/2022 Analyte	Batch ID Analysis Date Result P ND 0	9: 69269 9: 8/6/2022 PQL SPK value	F	RunNo: 90 SeqNo: 32	0070 210467	Units: mg/K	g	RPDLimit	Qual	
Client ID: PBS Prep Date: 8/4/2022 Analyte Benzene	Batch ID Analysis Date Result P ND 0. ND 0.	9: 69269 9: 8/6/2022 9QL SPK value 1.025	F	RunNo: 90 SeqNo: 32	0070 210467	Units: mg/K	g	RPDLimit	Qual	
Client ID: PBS Prep Date: 8/4/2022 Analyte Benzene Toluene	Batch ID Analysis Date Result P ND 0. ND 0. ND 0.	2: 69269 2: 8/6/2022 2QL SPK value 1.025 1.050	F	RunNo: 90 SeqNo: 32	0070 210467	Units: mg/K	g	RPDLimit	Qual	

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

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vived by				Hal	l Environmen	4901	Hawkins NE	0	anla Lag In Ohaal	Page 69 of
		YSIS Ratory			2 L: 505-345-39 Vebsite: www	975 FAX: 50		San	nple Log-In Checl	(LIST
Clie	ent Name:	GHD Midla	nd	Work	Order Numb	ber: 22082	47		RcptNo: 1	1
Rec	ceived By:	Juan Roja	IS	8/4/202	2 7:04:00 AI	м	5	lance g		
Con	mpleted By:	Sean Livi	ngston	8/4/202	2 8:17:50 AI	M		≤ 1	n -4	
Rev	viewed By:	KPCI	8.04	.22					, <u>Je)</u>	
And the second second second	ain of Cus					-	_		_	
1. Is	s Chain of C	ustody comp	lete?			Yes		No 🗌	Not Present	
2. H	How was the	sample deliv	vered?			<u>Courie</u>	ŗ			
	g In Vas an atterr	npt made to	cool the sample	es?		Yes		No 🗌		
4. W	Vere all samp	ples received	l at a temperati	ure of >0° C	to 6.0°C	Yes		No 🗌		
5. s	Sample(s) in	proper conta	iner(s)?			Yes		No 🗌		
6. Si	ufficient sam	ple volume f	or indicated tes	st(s)?		Yes 🖌		No 🗌		
7. Ar	re samples (except VOA	and ONG) prop	perly preserve	ed?	Yes	•	No 🗌		
8. W	Vas preserva	tive added to	bottles?			Yes [No 🗹	NA 🗌	
9. Re	eceived at le	east 1 vial wit	h headspace <	1/4" for AQ V	'OA?	Yes]	No 🗌	NA 🗹	
10. W	Vere any sar	nple contain	ers received bro	oken?		Yes [No 🗹	# of preserved	
	oes paperwo Note discrepa		ttle labels? ain of custody)			Yes 🖌	2	No 🗌	bottles checked for pH: (<2 or >12 un	less noted)
12. Ar	re matrices o	correctly ider	tified on Chain	of Custody?		Yes	•	No 🗌	Adjusted?	
13. Is	it clear wha	t analyses w	ere requested?			Yes 🖌	•	No 🗌		, 1
	Vere all holdi f no, notify ci		e to be met? authorization.)			Yes 🛽		No 🗌	Checked by: JR §	14/22
<u>Spec</u>	cial Handl	ing (if ap	olicable)							
15.V	Nas client no	otified of all d	iscrepancies w	ith this order?)	Yes [No 🗌	NA 🗹	
	Person	Notified:	ſ		Date:	Г		one of the second s		
	By Who	om:	-		Via:	eMail	Phone	e 🗌 Fax	In Person	
	Regard	ing:	[
	Client I	nstructions:	[
16. <i>4</i>	Additional re	marks:								
17. 0	Cooler Infor	mation								
-	Cooler No	and a second second second second	Condition	Seal Intact	Seal No	Seal Dat	e Sig	ned By		
	1	1.1	Good							
	2	0.5	Good							

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Page 1 of 1

Additional contractions of the second part of the s	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) 8220 (Semi-VOA) 70tal Coliform (Present/Absent) Total Coliform (Present/Absent)	X X X X X X X X X X X X X X X X X X X X	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Turn-Around Time: E Standard 太 Rush S Druy Project Name: 人はり、 BL 「- Sえた井ユ Project #:	Project Manager: JT Murrey Tom Larson Sampler: Lian Giersdorf On Ice: 日子es DNo # of Coolers: C. 7+62-1.1 (°C) Cooler Temp(Instuding CF): C. 7+62-1.1 (°C) Cooler Temp(Instuding CF): C. 7+62-1.1 (°C) Cooler Temp(Instuding CF): C. 7+62-1.1 (°C) Type and # Type	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	intracted to other accredited laboratories. This serves as notice of this pos
Client: GHD Client: GHD Mailing Address:324 W. Nah St. Su;te108 Artesta, NM 88210 Phone #: (505)377-4218	Fax#: ジナ. ルurrey のちんす. com Package: Package: Dackage: Dackage:	0002 1200 501 $BHB-2$ 1300 $BHB-2$ $BHB-3$ 1310 $BHB-4$ 1315 $BHB-4$ 1710 $BHC-1$ 1700 $BHC-1$ 1700 $BHC-1$ 1700 $BHC-2$ 1100 $BHC-2$ 1115 $BHC-2$ 1115 $BHC-2$ 1115 $BHC-2$ 1115 $BHC-3$ 1116 $BHC-3$ 1115 $BHC-3$ 1115 $BHC-3$ 1115 $BHC-3$ 1115 $BHC-3$ 1115 $BHC-3$ 1115 $BHC-3$ 0115 $BHC-3$ 0115 $BHC-3$ 0055 Can 0350 Can 0360 Can 0300 $000000000000000000000000000000000000$	If necessary, samples submitted to Hall Environmental may be subcc



August 16, 2022

Tom Larson GHD Midland 2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086 FAX

RE: Abby BLF State 1

OrderNo.: 2208344

Hall Environmental Analysis Laboratory

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 15 sample(s) on 8/5/2022 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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208344

Date Reported: 8/16/2022

CLIENT: GHD Midland	Client Sample ID: BHD1 Collection Date: 8/3/2022 12:00:00 PM									
Project: Abby BLF State 1										
Lab ID: 2208344-001	Matrix: SOIL	Received Date: 8/5/2022 6:05:00 AM								
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS						Analyst	: JMT			
Chloride	160	60		mg/Kg	20	8/9/2022 12:30:32 PM	69351			
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	: SB			
Diesel Range Organics (DRO)	4900	140		mg/Kg	10	8/9/2022 10:38:01 PM	69318			
Motor Oil Range Organics (MRO)	910	460		mg/Kg	10	8/9/2022 10:38:01 PM	69318			
Surr: DNOP	0	21-129	S	%Rec	10	8/9/2022 10:38:01 PM	69318			
EPA METHOD 8015D: GASOLINE RANG	E					Analyst	ссм:			
Gasoline Range Organics (GRO)	770	23		mg/Kg	5	8/7/2022 10:20:00 AM	69288			
Surr: BFB	360	37.7-212	S	%Rec	5	8/7/2022 10:20:00 AM	69288			
EPA METHOD 8021B: VOLATILES						Analyst	: CCM			
Benzene	ND	0.12		mg/Kg	5	8/7/2022 10:20:00 AM	69288			
Toluene	4.7	0.23		mg/Kg	5	8/7/2022 10:20:00 AM	69288			
Ethylbenzene	5.6	0.23		mg/Kg	5	8/7/2022 10:20:00 AM	69288			
Xylenes, Total	43	0.47		mg/Kg	5	8/7/2022 10:20:00 AM	69288			
Surr: 4-Bromofluorobenzene	153	70-130	S	%Rec	5	8/7/2022 10:20:00 AM	69288			

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit
- Page 1 of 22
Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208344

Date Reported: 8/16/2022

CLIENT: GHD Midland		Cl	ient Sample II	D: SV	VA1	
Project: Abby BLF State 1		(Collection Dat	e: 8/3	3/2022 11:00:00 AM	
Lab ID: 2208344-002	Matrix: SOIL	5/2022 6:05:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: JMT
Chloride	ND	60	mg/Kg	20	8/9/2022 12:42:57 PM	69351
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/9/2022 3:05:24 PM	69318
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	8/9/2022 3:05:24 PM	69318
Surr: DNOP	68.7	21-129	%Rec	1	8/9/2022 3:05:24 PM	69318
EPA METHOD 8015D: GASOLINE RANGE	E				Analys	CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/7/2022 10:40:00 AM	69288
Surr: BFB	116	37.7-212	%Rec	1	8/7/2022 10:40:00 AM	69288
EPA METHOD 8021B: VOLATILES					Analys	CCM
Benzene	ND	0.023	mg/Kg	1	8/7/2022 10:40:00 AM	69288
Toluene	ND	0.047	mg/Kg	1	8/7/2022 10:40:00 AM	69288
Ethylbenzene	ND	0.047	mg/Kg	1	8/7/2022 10:40:00 AM	69288
Xylenes, Total	ND	0.094	mg/Kg	1	8/7/2022 10:40:00 AM	69288
Surr: 4-Bromofluorobenzene	85.4	70-130	%Rec	1	8/7/2022 10:40:00 AM	69288

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208344

Date Reported: 8/16/2022

CLIENT: GHD Midland	Client Sample ID: SWA2 Collection Date: 8/3/2022 11:05:00 AM							
Project: Abby BLF State 1								
Lab ID: 2208344-003	Matrix: SOIL Received Date: 8/5/2022 6:05:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analysi	: JMT		
Chloride	70	60	mg/Kg	20	8/9/2022 1:44:59 PM	69351		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: DGH		
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/9/2022 3:19:34 PM	69318		
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/9/2022 3:19:34 PM	69318		
Surr: DNOP	52.2	21-129	%Rec	1	8/9/2022 3:19:34 PM	69318		
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	CCM		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/7/2022 11:00:00 AM	69288		
Surr: BFB	88.8	37.7-212	%Rec	1	8/7/2022 11:00:00 AM	69288		
EPA METHOD 8021B: VOLATILES					Analyst	CCM		
Benzene	ND	0.025	mg/Kg	1	8/7/2022 11:00:00 AM	69288		
Toluene	ND	0.050	mg/Kg	1	8/7/2022 11:00:00 AM	69288		
Ethylbenzene	ND	0.050	mg/Kg	1	8/7/2022 11:00:00 AM	69288		
Xylenes, Total	ND	0.099	mg/Kg	1	8/7/2022 11:00:00 AM	69288		
Surr: 4-Bromofluorobenzene	82.2	70-130	%Rec	1	8/7/2022 11:00:00 AM	69288		

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208344

Date Reported: 8/16/2022

CLIENT: GHD Midland		C	ient Sample I	D: SV	VA3	
Project: Abby BLF State 1		(Collection Dat	e: 8/3	3/2022 1:10:00 AM	
Lab ID: 2208344-004	Matrix: SOIL		Received Dat	e: 8/5	5/2022 6:05:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	160	60	mg/Kg	20	8/9/2022 1:57:23 PM	69351
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/9/2022 3:33:32 PM	69318
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/9/2022 3:33:32 PM	69318
Surr: DNOP	58.8	21-129	%Rec	1	8/9/2022 3:33:32 PM	69318
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/7/2022 11:20:00 AM	69288
Surr: BFB	85.1	37.7-212	%Rec	1	8/7/2022 11:20:00 AM	69288
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.024	mg/Kg	1	8/7/2022 11:20:00 AM	69288
Toluene	ND	0.048	mg/Kg	1	8/7/2022 11:20:00 AM	69288
Ethylbenzene	ND	0.048	mg/Kg	1	8/7/2022 11:20:00 AM	69288
Xylenes, Total	ND	0.097	mg/Kg	1	8/7/2022 11:20:00 AM	69288
Surr: 4-Bromofluorobenzene	77.2	70-130	%Rec	1	8/7/2022 11:20:00 AM	69288

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208344

Date Reported: 8/16/2022

CLIENT: GHD Midland				ample II			
Project: Abby BLF State 1			Collect	ion Dat	e: 8/3	3/2022 11:30:00 AM	
Lab ID: 2208344-005	Matrix: SOIL		Recei	ved Dat	e: 8/5	5/2022 6:05:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	64	60		mg/Kg	20	8/9/2022 2:34:36 PM	69351
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/9/2022 3:47:16 PM	69318
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/9/2022 3:47:16 PM	69318
Surr: DNOP	56.5	21-129		%Rec	1	8/9/2022 3:47:16 PM	69318
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/7/2022 11:39:00 AM	69288
Surr: BFB	91.1	37.7-212		%Rec	1	8/7/2022 11:39:00 AM	69288
EPA METHOD 8021B: VOLATILES						Analyst	: CCM
Benzene	ND	0.023		mg/Kg	1	8/7/2022 11:39:00 AM	69288
Toluene	ND	0.047		mg/Kg	1	8/7/2022 11:39:00 AM	69288
Ethylbenzene	ND	0.047		mg/Kg	1	8/7/2022 11:39:00 AM	69288
Xylenes, Total	ND	0.094		mg/Kg	1	8/7/2022 11:39:00 AM	69288
Surr: 4-Bromofluorobenzene	79.6	70-130		%Rec	1	8/7/2022 11:39:00 AM	69288

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208344

Date Reported: 8/16/2022

CLIENT: GHD Midland		Cl	ient Sample I	D: SV	VB2		
Project: Abby BLF State 1		(Collection Dat	e: 8/3	3/2022 11:35:00 AM		
Lab ID: 2208344-006	Matrix: SOIL	trix: SOIL Received Date: 8/5/2022 6:05:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: JMT	
Chloride	ND	59	mg/Kg	20	8/9/2022 2:47:01 PM	69351	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: DGH	
Diesel Range Organics (DRO)	270	14	mg/Kg	1	8/9/2022 4:01:21 PM	69318	
Motor Oil Range Organics (MRO)	70	48	mg/Kg	1	8/9/2022 4:01:21 PM	69318	
Surr: DNOP	63.5	21-129	%Rec	1	8/9/2022 4:01:21 PM	69318	
EPA METHOD 8015D: GASOLINE RANGE	E				Analys	t: CCM	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/7/2022 11:59:00 AM	69288	
Surr: BFB	104	37.7-212	%Rec	1	8/7/2022 11:59:00 AM	69288	
EPA METHOD 8021B: VOLATILES					Analys	t: CCM	
Benzene	ND	0.024	mg/Kg	1	8/7/2022 11:59:00 AM	69288	
Toluene	ND	0.048	mg/Kg	1	8/7/2022 11:59:00 AM	69288	
Ethylbenzene	ND	0.048	mg/Kg	1	8/7/2022 11:59:00 AM	69288	
Xylenes, Total	ND	0.096	mg/Kg	1	8/7/2022 11:59:00 AM	69288	
Surr: 4-Bromofluorobenzene	84.9	70-130	%Rec	1	8/7/2022 11:59:00 AM	69288	

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit
- Page 6 of 22

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208344

Date Reported: 8/16/2022

CLIENT: GHD Midland				mple I			
Project: Abby BLF State 1			Collect	ion Dat	e: 8/3	3/2022 1:00:00 PM	
Lab ID: 2208344-007	Matrix: SOIL		Receiv	ved Dat	e: 8/5	5/2022 6:05:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: JMT
Chloride	120	61		mg/Kg	20	8/9/2022 2:59:26 PM	69351
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	DGH
Diesel Range Organics (DRO)	1400	75		mg/Kg	5	8/10/2022 4:44:30 PM	69329
Motor Oil Range Organics (MRO)	300	250		mg/Kg	5	8/10/2022 4:44:30 PM	69329
Surr: DNOP	95.7	21-129		%Rec	5	8/10/2022 4:44:30 PM	69329
EPA METHOD 8015D: GASOLINE RANGE	E					Analyst	BRM
Gasoline Range Organics (GRO)	140	25		mg/Kg	5	8/8/2022 10:45:00 AM	69292
Surr: BFB	183	37.7-212		%Rec	5	8/8/2022 10:45:00 AM	69292
EPA METHOD 8021B: VOLATILES						Analyst	BRM
Benzene	ND	0.12		mg/Kg	5	8/8/2022 10:45:00 AM	69292
Toluene	ND	0.25		mg/Kg	5	8/8/2022 10:45:00 AM	69292
Ethylbenzene	0.68	0.25		mg/Kg	5	8/8/2022 10:45:00 AM	69292
Xylenes, Total	4.2	0.50		mg/Kg	5	8/8/2022 10:45:00 AM	69292
Surr: 4-Bromofluorobenzene	121	70-130		%Rec	5	8/8/2022 10:45:00 AM	69292

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208344

Date Reported: 8/16/2022

CLIENT: GHD Midland	Client Sample ID: SWC2							
Project: Abby BLF State 1	Collection Date: 8/3/2022 1:05:00 PM							
Lab ID: 2208344-008	Matrix: SOIL Received Date: 8/5/2022 6:05:00 AM							
Analyses	Result	RL	Qual U	U nits	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS						Analyst	JMT	
Chloride	68	60	r	ng/Kg	20	8/9/2022 3:11:51 PM	69351	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	DGH	
Diesel Range Organics (DRO)	620	15	r	ng/Kg	1	8/9/2022 7:13:08 PM	69329	
Motor Oil Range Organics (MRO)	180	49	r	ng/Kg	1	8/9/2022 7:13:08 PM	69329	
Surr: DNOP	68.3	21-129	0	%Rec	1	8/9/2022 7:13:08 PM	69329	
EPA METHOD 8015D: GASOLINE RANG	E					Analyst	BRM	
Gasoline Range Organics (GRO)	21	5.0	r	ng/Kg	1	8/8/2022 11:44:00 AM	69292	
Surr: BFB	153	37.7-212	0	%Rec	1	8/8/2022 11:44:00 AM	69292	
EPA METHOD 8021B: VOLATILES						Analyst	BRM	
Benzene	ND	0.025	r	ng/Kg	1	8/8/2022 11:44:00 AM	69292	
Toluene	ND	0.050	r	ng/Kg	1	8/8/2022 11:44:00 AM	69292	
Ethylbenzene	ND	0.050	r	ng/Kg	1	8/8/2022 11:44:00 AM	69292	
Xylenes, Total	0.27	0.10	r	ng/Kg	1	8/8/2022 11:44:00 AM	69292	
Surr: 4-Bromofluorobenzene	106	70-130	q	%Rec	1	8/8/2022 11:44:00 AM	69292	

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208344

Date Reported: 8/16/2022

CLIENT: GHD Midland		Cl	ient Sample I	D: SV	WC3	
Project: Abby BLF State 1		(Collection Dat	te: 8/3	3/2022 1:10:00 PM	
Lab ID: 2208344-009	Matrix: SOIL Received Date: 8/5/2022 6:05:					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	ND	61	mg/Kg	20	8/9/2022 3:49:03 PM	69351
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	DGH
Diesel Range Organics (DRO)	290	13	mg/Kg	1	8/9/2022 7:44:27 PM	69329
Motor Oil Range Organics (MRO)	94	44	mg/Kg	1	8/9/2022 7:44:27 PM	69329
Surr: DNOP	65.1	21-129	%Rec	1	8/9/2022 7:44:27 PM	69329
EPA METHOD 8015D: GASOLINE RANG	θE				Analyst	BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/8/2022 12:44:00 PM	69292
Surr: BFB	114	37.7-212	%Rec	1	8/8/2022 12:44:00 PM	69292
EPA METHOD 8021B: VOLATILES					Analyst	BRM
Benzene	ND	0.025	mg/Kg	1	8/8/2022 12:44:00 PM	69292
Toluene	ND	0.050	mg/Kg	1	8/8/2022 12:44:00 PM	69292
Ethylbenzene	ND	0.050	mg/Kg	1	8/8/2022 12:44:00 PM	69292
Xylenes, Total	ND	0.10	mg/Kg	1	8/8/2022 12:44:00 PM	69292
Surr: 4-Bromofluorobenzene	85.1	70-130	%Rec	1	8/8/2022 12:44:00 PM	69292

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208344

Date Reported: 8/16/2022

CLIENT: GHD Midland	Client Sample ID: SWC4							
Project: Abby BLF State 1	Collection Date: 8/3/2022 1:15:00 PM							
Lab ID: 2208344-010	Matrix: SOILReceived Date: 8/5/2022 6:05:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: JMT		
Chloride	ND	60	mg/Kg	20	8/9/2022 4:01:28 PM	69351		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: DGH		
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/9/2022 7:59:58 PM	69329		
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/9/2022 7:59:58 PM	69329		
Surr: DNOP	73.7	21-129	%Rec	1	8/9/2022 7:59:58 PM	69329		
EPA METHOD 8015D: GASOLINE RANGE	E				Analys	t: BRM		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/8/2022 1:03:00 PM	69292		
Surr: BFB	92.1	37.7-212	%Rec	1	8/8/2022 1:03:00 PM	69292		
EPA METHOD 8021B: VOLATILES					Analys	t: BRM		
Benzene	ND	0.025	mg/Kg	1	8/8/2022 1:03:00 PM	69292		
Toluene	ND	0.050	mg/Kg	1	8/8/2022 1:03:00 PM	69292		
Ethylbenzene	ND	0.050	mg/Kg	1	8/8/2022 1:03:00 PM	69292		
Xylenes, Total	ND	0.10	mg/Kg	1	8/8/2022 1:03:00 PM	69292		
Surr: 4-Bromofluorobenzene	81.8	70-130	%Rec	1	8/8/2022 1:03:00 PM	69292		

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208344

Date Reported: 8/16/2022

CLIENT: GHD Midland	Client Sample ID: SWD1						
Project: Abby BLF State 1		(Collection Dat	e: 8/3	3/2022 1:20:00 PM		
Lab ID: 2208344-011	Matrix: SOIL		Received Dat	e: 8/5	5/2022 6:05:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: JMT	
Chloride	ND	60	mg/Kg	20	8/9/2022 4:13:52 PM	69351	
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS				Analys	t: DGH	
Diesel Range Organics (DRO)	95	14	mg/Kg	1	8/9/2022 8:15:18 PM	69329	
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	8/9/2022 8:15:18 PM	69329	
Surr: DNOP	67.9	21-129	%Rec	1	8/9/2022 8:15:18 PM	69329	
EPA METHOD 8015D: GASOLINE RANG	Ε				Analys	t: BRM	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/8/2022 1:23:00 PM	69292	
Surr: BFB	87.4	37.7-212	%Rec	1	8/8/2022 1:23:00 PM	69292	
EPA METHOD 8021B: VOLATILES					Analys	t: BRM	
Benzene	ND	0.025	mg/Kg	1	8/8/2022 1:23:00 PM	69292	
Toluene	ND	0.049	mg/Kg	1	8/8/2022 1:23:00 PM	69292	
Ethylbenzene	ND	0.049	mg/Kg	1	8/8/2022 1:23:00 PM	69292	
Xylenes, Total	ND	0.098	mg/Kg	1	8/8/2022 1:23:00 PM	69292	
Surr: 4-Bromofluorobenzene	79.7	70-130	%Rec	1	8/8/2022 1:23:00 PM	69292	

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits Sample pH Not In Range
- Р RL
 - Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208344

Date Reported: 8/16/2022

CLIENT: GHD Midland		Cl	ient Sample	D:SV	WD2	
Project: Abby BLF State 1			Collection Da	te: 8/3	3/2022 1:25:00 PM	
Lab ID: 2208344-012	Matrix: SOIL		Received Da	te: 8/5	5/2022 6:05:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	ND	60	mg/Kg	20	8/9/2022 4:26:16 PM	69351
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/9/2022 8:30:34 PM	69329
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/9/2022 8:30:34 PM	69329
Surr: DNOP	77.1	21-129	%Rec	1	8/9/2022 8:30:34 PM	69329
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: BRM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/8/2022 1:43:00 PM	69292
Surr: BFB	92.3	37.7-212	%Rec	1	8/8/2022 1:43:00 PM	69292
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.025	mg/Kg	1	8/8/2022 1:43:00 PM	69292
Toluene	ND	0.050	mg/Kg	1	8/8/2022 1:43:00 PM	69292
Ethylbenzene	ND	0.050	mg/Kg	1	8/8/2022 1:43:00 PM	69292
Xylenes, Total	ND	0.10	mg/Kg	1	8/8/2022 1:43:00 PM	69292
Surr: 4-Bromofluorobenzene	81.9	70-130	%Rec	1	8/8/2022 1:43:00 PM	69292

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208344

Date Reported: 8/16/2022

CLIENT: GHD Midland		C	lient Sa	mple II	D: SV	VD3	
Project: Abby BLF State 1		(Collecti	ion Dat	e: 8/3	3/2022 1:30:00 PM	
Lab ID: 2208344-013	Matrix: SOIL		Receiv	ed Dat	e: 8/5	5/2022 6:05:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: JMT
Chloride	ND	60		mg/Kg	20	8/9/2022 4:38:40 PM	69351
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analys	t: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	8/9/2022 8:45:44 PM	69329
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/9/2022 8:45:44 PM	69329
Surr: DNOP	72.8	21-129		%Rec	1	8/9/2022 8:45:44 PM	69329
EPA METHOD 8015D: GASOLINE RANG	E					Analys	t: BRM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/8/2022 2:03:00 PM	69292
Surr: BFB	86.0	37.7-212		%Rec	1	8/8/2022 2:03:00 PM	69292
EPA METHOD 8021B: VOLATILES						Analys	t: BRM
Benzene	ND	0.025		mg/Kg	1	8/8/2022 2:03:00 PM	69292
Toluene	ND	0.049		mg/Kg	1	8/8/2022 2:03:00 PM	69292
Ethylbenzene	ND	0.049		mg/Kg	1	8/8/2022 2:03:00 PM	69292
Xylenes, Total	ND	0.099		mg/Kg	1	8/8/2022 2:03:00 PM	69292
Surr: 4-Bromofluorobenzene	79.4	70-130		%Rec	1	8/8/2022 2:03:00 PM	69292

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208344

Date Reported: 8/16/2022

CLIENT: GHD Midland		Cl	ient Sample I	D: SV	VD4				
Project: Abby BLF State 1	Collection Date: 8/3/2022 1:35:00 PM								
Lab ID: 2208344-014	Matrix: SOIL		Received Da	te: 8/5	5/2022 6:05:00 AM				
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS					Analys	st: JMT			
Chloride	ND	60	mg/Kg	20	8/9/2022 4:51:04 PM	69351			
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	st: DGH			
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	8/9/2022 9:01:03 PM	69329			
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	8/9/2022 9:01:03 PM	69329			
Surr: DNOP	82.1	21-129	%Rec	1	8/9/2022 9:01:03 PM	69329			
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	st: BRM			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/8/2022 2:23:00 PM	69292			
Surr: BFB	87.8	37.7-212	%Rec	1	8/8/2022 2:23:00 PM	69292			
EPA METHOD 8021B: VOLATILES					Analys	st: BRM			
Benzene	ND	0.025	mg/Kg	1	8/8/2022 2:23:00 PM	69292			
Toluene	ND	0.049	mg/Kg	1	8/8/2022 2:23:00 PM	69292			
Ethylbenzene	ND	0.049	mg/Kg	1	8/8/2022 2:23:00 PM	69292			
Xylenes, Total	ND	0.099	mg/Kg	1	8/8/2022 2:23:00 PM	69292			
Surr: 4-Bromofluorobenzene	80.0	70-130	%Rec	1	8/8/2022 2:23:00 PM	69292			

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208344

Date Reported: 8/16/2022

CLIENT: GHD Midland		Cl	ient Sar	nple II	D: SV	VD5			
Project: Abby BLF State 1	Collection Date: 8/3/2022 1:40:00 PM								
Lab ID: 2208344-015	Matrix: SOIL		Receive	ed Dat	e: 8/5	5/2022 6:05:00 AM			
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS						Analyst	: JTT		
Chloride	ND	60		mg/Kg	20	8/11/2022 8:16:33 PM	69384		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	DGH		
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	8/9/2022 9:16:06 PM	69329		
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/9/2022 9:16:06 PM	69329		
Surr: DNOP	82.9	21-129		%Rec	1	8/9/2022 9:16:06 PM	69329		
EPA METHOD 8015D: GASOLINE RANGE	1					Analyst	BRM		
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/8/2022 2:42:00 PM	69292		
Surr: BFB	89.1	37.7-212		%Rec	1	8/8/2022 2:42:00 PM	69292		
EPA METHOD 8021B: VOLATILES						Analyst	BRM		
Benzene	ND	0.025		mg/Kg	1	8/8/2022 2:42:00 PM	69292		
Toluene	ND	0.050		mg/Kg	1	8/8/2022 2:42:00 PM	69292		
Ethylbenzene	ND	0.050		mg/Kg	1	8/8/2022 2:42:00 PM	69292		
Xylenes, Total	ND	0.099		mg/Kg	1	8/8/2022 2:42:00 PM	69292		
Surr: 4-Bromofluorobenzene	80.7	70-130		%Rec	1	8/8/2022 2:42:00 PM	69292		

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL
 - Reporting Limit

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	GHD Midland							
Project:	Abby BLF State 1							
Sample ID: MB-693	351 SampType: mblk	TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID: 69351	RunNo: 90140						
Prep Date: 8/9/20	Analysis Date: 8/9/2022	SeqNo: 3213881 Units: mg/Kg						
Analyte	Result PQL SPK value SPK Ref ∖	/al %REC LowLimit HighLimit %RPD RPDLimit Qual						
Chloride	ND 1.5							
Sample ID: LCS-69	3351 SampType: Ics	TestCode: EPA Method 300.0: Anions						
Client ID: LCSS	Batch ID: 69351	RunNo: 90140						
Prep Date: 8/9/20	22 Analysis Date: 8/9/2022	SeqNo: 3213882 Units: mg/Kg						
Analyte	Result PQL SPK value SPK Ref V	/al %REC LowLimit HighLimit %RPD RPDLimit Qual						
Chloride	14 1.5 15.00 0	92.7 90 110						
Sample ID: MB-693	384 SampType: mblk	TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID: 69384	RunNo: 90187						
Prep Date: 8/10/2	2022 Analysis Date: 8/11/2022	SeqNo: 3217870 Units: mg/Kg						
Analyte	Result PQL SPK value SPK Ref V	/al %REC LowLimit HighLimit %RPD RPDLimit Qual						
Chloride	ND 1.5							
Sample ID: LCS-69	3384 SampType: Ics	TestCode: EPA Method 300.0: Anions						
Client ID: LCSS	Batch ID: 69384	RunNo: 90187						
Prep Date: 8/10/2	2022 Analysis Date: 8/11/2022	SeqNo: 3217871 Units: mg/Kg						
Analyte	Result PQL SPK value SPK Ref ∖	/al %REC LowLimit HighLimit %RPD RPDLimit Qual						
Chloride	15 1.5 15.00 0	98.7 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

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2208344

16-Aug-22

WO#:

QC SUMMARY REPORT Hall Environ

IAKI KEPURI	WO#:	2208344
nmental Analysis Laboratory, Inc.		16-Aug-22

Client: GHD Mi	idland
Project: Abby BI	LF State 1
Sample ID: LCS-69340	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 69340 RunNo: 90104
Prep Date: 8/8/2022	Analysis Date: 8/9/2022 SeqNo: 3212922 Units: %Rec
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.6 5.000 91.3 21 129
Sample ID: MB-69340	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 69340 RunNo: 90104
Prep Date: 8/8/2022	Analysis Date: 8/9/2022 SeqNo: 3212924 Units: %Rec
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.8 10.00 98.4 21 129
Sample ID: MB-69318	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 69318 RunNo: 90146
Prep Date: 8/8/2022	Analysis Date: 8/9/2022 SeqNo: 3214187 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 15
Motor Oil Range Organics (MRO) Surr: DNOP	ND 50 8.4 10.00 83.6 21 129
Sample ID: LCS-69318 Client ID: LCSS	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Batch ID: 69318 RunNo: 90146
Prep Date: 8/8/2022	Analysis Date: 8/9/2022 SeqNo: 3214188 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	45 15 50.00 0 89.7 64.4 127
Surr: DNOP	4.5 5.000 90.7 21 129
Sample ID: MB-69329	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 69329 RunNo: 90146
Prep Date: 8/8/2022	Analysis Date: 8/9/2022 SeqNo: 3214211 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 15
Motor Oil Range Organics (MRO) Surr: DNOP	ND 50 6.7 10.00 66.6 21 129
Sample ID: LCS-69329	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 69329 RunNo: 90146
Prep Date: 8/8/2022	Analysis Date: 8/9/2022 SeqNo: 3214212 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

Value exceeds Maximum Contaminant Level. *

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit GHD Midland

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 2208344 16-Aug-22		
16-Aug-22	WO#:	2208344
		16-Aug-22

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Project: Abby BI	LF State 1								
Sample ID: LCS-69329	SampType: L	CS	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 69	9329	F	RunNo: 90146					
Prep Date: 8/8/2022	Analysis Date: 8	3/9/2022	5	SeqNo: 32	214212	Units: mg/k	íg		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38 15	5 50.00	0	76.4	64.4	127			
Surr: DNOP	2.7	5.000		54.0	21	129			
Sample ID: MB-69330	SampType: M	IBLK	Tes	tCode: EP	A Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch ID: 69	F	RunNo: 90	0146					
Prep Date: 8/8/2022	Analysis Date: 8	3/10/2022	5	SeqNo: 32	214248	Units: %Re	C		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.9	10.00		79.0	21	129			
Sample ID: LCS-69330	Tes	tCode: EF	A Method	8015M/D: Die	esel Range	e Organics			
Client ID: LCSS	Batch ID: 69	F	RunNo: 90	0146					
Prep Date: 8/8/2022	Analysis Date: 8	3/10/2022	S	SeqNo: 32	214249	Units: %Re	C		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7	5.000		74.3	21	129			
Sample ID: 2208344-007AMS	SampType: M	IS	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: SWC1	Batch ID: 69	9329	RunNo: 90146						
Prep Date: 8/8/2022	Analysis Date: 8	3/10/2022	5	SeqNo: 32	216080	Units: mg/k	íg		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	1800 70	-	1387	910	36.1	154			S
Surr: DNOP	4.3	4.677		92.6	21	129			
Sample ID: 2208344-007AMS	D SampType: M	ISD	Tes	tCode: EP	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: SWC1	Batch ID: 69	9329	F	RunNo: 90	0146				
Prep Date: 8/8/2022	Analysis Date: 8	3/10/2022	S	SeqNo: 32	216081	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	2000 67		1387	1260	36.1	154	7.58	33.9	S
Surr: DNOP	4.3	4.496		95.8	21	129	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

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Surr: BFB

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	GHD Mid	dland									
Project:	Abby BL										
		I State I									
Sample ID: Ic	cs-69288	SampT	ype: LC	S	Tes	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: L	CSS	Batch	n ID: 69	288	F	RunNo: 9 0	0068				
Prep Date:	8/5/2022	Analysis D	ate: 8	/7/2022	5	SeqNo: 32	210148	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range (Organics (GRO)	27	5.0	25.00	0	108	72.3	137			
Surr: BFB		2000		1000		202	37.7	212			
Sample ID: N	IB-69288	SampT	ype: M	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	е	
Client ID: P	BS	Batch	n ID: 69	288	F	RunNo: 9(0068				
Prep Date:	8/5/2022	Analysis D	ate: 8	/7/2022	S	SeqNo: 32	211133	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range (Organics (GRO)	ND	5.0								
Surr: BFB		890		1000		88.5	37.7	212			
Sample ID: Ic	cs-69292	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: L	CSS	Batch	n ID: 69	292	F	RunNo: 9(0091				
Prep Date:	8/5/2022	Analysis D	ate: 8	/8/2022	S	eqNo: 32	211733	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range (Organics (GRO)	27	5.0	25.00	0	109	72.3	137			
Surr: BFB		2000		1000		201	37.7	212			
Sample ID: m	n b-69292	SampT	ype: M	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: P	BS	Batch	n ID: 69	292	F	RunNo: 9(0091				
Prep Date:	8/5/2022	Analysis D	ate: 8	/8/2022	S	SeqNo: 32	211734	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range (Organics (GRO)	ND	5.0								
Surr: BFB		880		1000		87.7	37.7	212			
Sample ID: 2	208344-007ams	SampT	ype: M	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
	WC1	Batch	n ID: 69	292	F	RunNo: 90	0091				
Client ID: S											
Prep Date:	8/5/2022	Analysis D	ate: 8	/8/2022	S	SeqNo: 32	211736	Units: mg/K	g		
	8/5/2022	Analysis D Result	ate: 8 / PQL		SPK Ref Val	SeqNo: 32 %REC	211736 LowLimit	Units: mg/K HighLimit	g %RPD	RPDLimit	Qual

Sample ID: 2208344-007amsd	TestCode: EPA Method 8015D: Gasoline Range									
Client ID: SWC1	Batch	ID: 69	292	R	RunNo: 9	0091				
Prep Date: 8/5/2022	Analysis Date: 8/8/2022			S	SeqNo: 3211737			Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

4916

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

PQL Practical Quanitative Limit

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

11000

Analyte detected in the associated Method Blank в

234

37.7

212

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 19 of 22

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2208344

16-Aug-22

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Released to	Imaging:	9/8/2022	11:18:02 AM	r
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В	An	alyte	dete	cted	in	the	associated	Method	Blank

- Е Estimated
- Analyte detected below quantitation limits J Р
- Sample pH Not In Range Reporting Limi
- RL

1	value			

- Value exceeds Maximum Contaminant Level D
- Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- POL Practical Quanitative Limit

Qualifiers:

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

- **Client:** GHD Midland **Project:** Abby BLF State 1 Sample ID: 2208344-007amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: SWC1 Batch ID: 69292 RunNo: 90091 Prep Date: 8/5/2022 Analysis Date: 8/8/2022 SeqNo: 3211737 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analvte Result LowLimit 25 Gasoline Range Organics (GRO) 240 124.5 144.0 74.2 70 130 9.78 20 Surr: BFB 12000 4980 237 37.7 212 0 0 S Sample ID: Ics-69294 TestCode: EPA Method 8015D: Gasoline Range SampType: LCS Client ID: LCSS Batch ID: 69294 RunNo: 90091 Prep Date: 8/5/2022 Analysis Date: 8/8/2022 SeqNo: 3211757 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 2000 1000 Surr: BFB 198 37.7 212 Sample ID: mb-69294 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 69294 RunNo: 90091 Analysis Date: 8/8/2022 Prep Date: 8/5/2022 SeqNo: 3211758 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual 870 1000 86.9 37.7 212 Surr: BFB
- WO#: 2208344 16-Aug-22

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:GHD MiProject:Abby BL	dland JF State 1										
Sample ID: MB-69288	SampT	ype: ME	BLK	TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch	n ID: 692	288	RunNo: 90068							
Prep Date: 8/5/2022	ate: 8/5/2022 Analysis Date: 8/7/2022					210201	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10	4 000		00.4	70	400				
Surr: 4-Bromofluorobenzene	0.82		1.000		82.4	70	130				
Sample ID: LCS-69288	•	ype: LC		Tes	tCode: EF	PA Method	8021B: Volat	iles			
Client ID: LCSS	Batch	n ID: 692	288	F	RunNo: 90	0068					
Prep Date: 8/5/2022	S	SeqNo: 3	210202	Units: mg/K	(g						
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.90	0.025	1.000	0	89.9	80	120				
Toluene	0.91	0.050	1.000	0	91.0	80	120				
Ethylbenzene	0.92	0.050	1.000	0	91.6	80	120				
Xylenes, Total	2.7	0.10	3.000	0	91.3	80	120				
Surr: 4-Bromofluorobenzene	0.85		1.000		84.5	70	130				
Sample ID: Ics-69292	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8021B: Volat	iles			
Client ID: LCSS	Batch	n ID: 692	292	RunNo: 90091							
Prep Date: 8/5/2022	Analysis D	ate: 8/	8/2022	S	SeqNo: 32	211781	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.87	0.025	1.000	0	87.0	80	120				
Toluene	0.88	0.050	1.000	0	87.8	80	120				
Ethylbenzene	0.88	0.050	1.000	0	88.0	80	120				
Xylenes, Total	2.6	0.10	3.000	0	87.3	80	120				
Surr: 4-Bromofluorobenzene	0.85		1.000		85.1	70	130				
Sample ID: mb-69292	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles			
Client ID: PBS	Batch	n ID: 692	292	F	RunNo: 9	0091					
Prep Date: 8/5/2022	Analysis D	ate: 8/	8/2022	S	SeqNo: 32	211782	Units: mg/K	íg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10			_						
Surr: 4-Bromofluorobenzene	0.81		1.000		81.1	70	130				

- * 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

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2208344

16-Aug-22

WO#:

Client:

Project:

Sample ID: 2208344-008ams

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

SampType: MS

% Recovery outside of range due to dilution or matrix interference

Value exceeds Maximum Contaminant Level.

Holding times for preparation or analysis exceeded

Sample Diluted Due to Matrix

Practical Quanitative Limit

Not Detected at the Reporting Limit

Qualifiers:

* D

Н

ND

PQL

S

B Analyte detected	ir
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Е Estimated value

Analyte detected below quantitation limits

Reporting Limit

F in the associated Method Blank

J

Р Sample pH Not In Range

RL

Page	$\gamma\gamma$	of	22
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•	•									
Client ID: SWC2	Batcl	h ID: 69	292	F	RunNo: 9	0091				
Prep Date: 8/5/2022	Analysis D	Date: 8/	8/2022	S	SeqNo: 3	211785	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.025	0.9823	0	80.0	68.8	120			
Toluene	0.79	0.049	0.9823	0	80.7	73.6	124			
Ethylbenzene	0.83	0.049	0.9823	0.04546	79.5	72.7	129			
Xylenes, Total	2.5	0.098	2.947	0.2667	76.3	75.7	126			
Surr: 4-Bromofluorobenzene	0.95		0.9823		96.3	70	130			
Sample ID: 2208344-008ams	sd SampT	Гуре: М	SD	Tes	tCode: El	PA Method	8021B: Volati	les		
Client ID: SWC2	Batcl	h ID: 69	292	F	RunNo: 9	0091				
Prep Date: 8/5/2022	Analysis D	Date: 8/	8/2022	8	SeqNo: 3	211786	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.76	0.025	0.9891	0	77.1	68.8	120	2.91	20	
Toluene	0.78	0.049	0.9891	0	78.6	73.6	124	1.93	20	
Ethylbenzene	0.81	0.049	0.9891	0.04546	77.0	72.7	129	2.38	20	
Xylenes, Total	2.4	0.099	2.967	0.2667	73.2	75.7	126	3.08	20	S
Surr: 4-Bromofluorobenzene	0.91		0.9891		92.4	70	130	0	0	
Sample ID: Ics-69294	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volati	les		
Client ID: LCSS	Batcl	h ID: 69	294	F	RunNo: 9	0091				
Prep Date: 8/5/2022	Analysis D	Date: 8/	8/2022	S	SeqNo: 3	211805	Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.78		1.000		77.8	70	130			
Sample ID: mb-69294	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volati	les		
Client ID: PBS	Batcl	h ID: 69	294	F	RunNo: 9	0091				
Prep Date: 8/5/2022	Analysis D	Date: 8/	/8/2022	5	SeqNo: 3	211806	Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.79		1.000		79.4	70	130			

TestCode: EPA Method 8021B: Volatiles

Abby BLF State 1

WO#: 2208344

16-Aug-22

Received by O	CD:	8/31/2	2 <i>022</i> .	2:12:45	PM
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Work Order Number 8/5/2022 6:05:00 AM	r: 2208344		RcptNo: 1
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8/5/2022 7:44:15 AM		S-L	Joh-
	Yes 🔽	No 🗌	Not Present
	Courier		
s?	Yes 🔽	No 🗌	
re of >0° C to 6.0°C	Yes 🔽	No 🗌	
	Yes 🔽	No 🗌	
(s)?	Yes 🗹	No 🗌	
erly preserved?	Yes 🖌	No 🗌	
	Yes 🗌	No 🔽	NA 🗌
/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹
ken?	Yes 🗌	No 🗹	# of preserved
	Yes 🗹	No 🗌	bottles checked for pH: (<2 or >12 unless noted)
of Custody?	Yes 🗹	No 🗌	Adjusted?
	Yes 🖌	No 🗌	
	Yes 🗹	No 🗌	Checked by: TMC 8/5/2
h this order?	Yes 🗌	No 🗌 ´	NA 🗹
Date: Via: [eMail	Phone 🗌 Fax	In Person
	8/5/2022 7:44:15 AM s? re of >0° C to 6.0° C c(s)? erly preserved? /4" for AQ VOA? ken? of Custody? h this order?	8/5/2022 7:44:15 AM Yes Courier S? Yes Yes ✓ re of >0° C to 6.0°C Yes Yes ✓ Yes ✓ <	8/5/2022 7:44:15 AM Yes No Yes Yes No Courier No Courier s? Yes Yes No re of >0° C to 6.0° C Yes No No Yes Yes No Yes No (s)? Yes Yes No Yes (s)? Yes No Yes No (s)? Yes No Yes No (s)? Yes No Yes No (s)? Yes Yes No Yes (s) Yes No Yes No

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.3	Good				

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Inall or Fall: (1	$ \begin{array}{ $
III or Facts: J. A. Kurrey Øg4.4. cm Project Manager: J. Manager: Town Carson SC Package: Level 4 (Full Validation) Town Carson Town Carson Town Carson Town Carson endlation: AC Compliance: Bampler: Lave Compliance: Bampler: Lave Compliance: Image: Town Carson endlation: AC Combine: BY see Image: <	$ \begin{array}{ $
III or Facts: J. A. Kurrey Øg4.4. cm Project Manager: J. Manager: Town Carson SC Package: Level 4 (Full Validation) Town Carson Town Carson Town Carson Town Carson endlation: AC Compliance: Bampler: Lave Compliance: Bampler: Lave Compliance: Image: Town Carson endlation: AC Combine: BY see Image: <	$ \begin{array}{ $
III or Fact: J. H. Hurrey Gg 4.4.cm Project Manager: J. Hurrey C Package: III unatard Tow Carson Tow Carson Tow Carson C Package: III unatard III unatard Tow Carson Tow Carson editation: IX Compliance: EPres INO IIII or Compliance: EPres editation: IX Compliance: EPres INO IIII or Compliance: EPres INO ELAC Other Onlice: EPres INO IIII or Compliance: EPres INO ELAC Other Englishing: Container Presenative HEAL NO IIII or Compliance: IIII or Container IIII or Container Presenative HEAL NO OUT	$ \begin{array}{ $
III or Fax#: Jf. Murrey Constance Project Manager: Jf. Murrey Iandard Constance Sample: Line Fax Garga Iandard Inc Constance Er/se Inc Iandard Inc Carga Tax Garga Inc Iandard Inc Constance Er/se Inc Image: Inc Constance Er/se Inc Inc Gooler Templowing pr: 2.3 or 3.3 (C) Inc Inc Gooler Templowing pr: 2.3 or 3.3 (C) Inc Inc Supple: Constance Presentative HEL No. Inc Supple: Supple: Constance Presentative No.5 Inc Supple: Supple: Supple: No.5 No.5 No.5 Inc Supple: Supple: No.7 No.5 No.5 No.5 No.5 Inc Supple: Supple: No.7 No.5 No.5 No.5 Inc Supple: Supple: No.5 No.5 No.5 No.5 Inco Supple: S	III or Fault J.T. Arwarey CS 54.cm Project Manager. T.M. Carson Francisco Tambard Correlation Carson T.M. Carson Tambard
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editation: \square A2 compliance Sample: \square A: Compliance Sample: \square A: Compliance IDD (Type) ITme Matrix Sample Name It of Ice: It of Ice: <td>editation: \square A2 compliance Sampler: \square Ar Solution \square No DD (Type) \square Of loce: \square No \square Of loce: \square No DD (Type) $\#$ of loce: \square No \square Of loce: \square No DD (Type) $\#$ of loce: \square No \square No \square No DD (Type) $\#$ of loce: \square No \square No \square No DD (Type) $\#$ of loce: \square No \square No \square No \square No DD (Type) $\#$ of loce: \square No \square No \square No \square No \square No DD (Type) $\#$ No $\#$ Supple: \square No \square No \square No \square No \square No No $\#$ No \square No</td>	editation: \square A2 compliance Sampler: \square Ar Solution \square No DD (Type) \square Of loce: \square No \square Of loce: \square No DD (Type) $\#$ of loce: \square No \square Of loce: \square No DD (Type) $\#$ of loce: \square No \square No \square No DD (Type) $\#$ of loce: \square No \square No \square No DD (Type) $\#$ of loce: \square No \square No \square No \square No DD (Type) $\#$ of loce: \square No \square No \square No \square No \square No DD (Type) $\#$ No $\#$ Supple: \square No \square No \square No \square No \square No No $\#$ No \square No
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

August 30, 2022

Tom Larson GHD Midland 2135 S Loop 250 W Midland, TX 79703 TEL: (432) 686-0086 FAX:

RE: Abby BLF State 1

OrderNo.: 2208419

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 23 sample(s) on 8/6/2022 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued August 18, 2022.

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. 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. All samples are reported as received unless otherwise indicated.

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

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208419

Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: BHA4A										
Project: Abby BLF State 1		(Collection Dat	e: 8/4	4/2022 11:00:00 AM						
Lab ID: 2208419-001	Matrix: SOIL	Received Date: 8/6/2022 10:30:00 AM									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analys	t: JMT					
Chloride	130	60	mg/Kg	20	8/12/2022 11:23:30 PM	69475					
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: SB					
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/12/2022 5:47:13 AM	69404					
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/12/2022 5:47:13 AM	69404					
Surr: DNOP	99.4	21-129	%Rec	1	8/12/2022 5:47:13 AM	69404					
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	t: BRM					
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/11/2022 2:50:20 PM	69360					
Surr: BFB	116	37.7-212	%Rec	1	8/11/2022 2:50:20 PM	69360					
EPA METHOD 8021B: VOLATILES					Analys	t: BRM					
Benzene	ND	0.024	mg/Kg	1	8/11/2022 2:50:20 PM	69360					
Toluene	ND	0.049	mg/Kg	1	8/11/2022 2:50:20 PM	69360					
Ethylbenzene	ND	0.049	mg/Kg	1	8/11/2022 2:50:20 PM	69360					
Xylenes, Total	ND	0.098	mg/Kg	1	8/11/2022 2:50:20 PM	69360					
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/11/2022 2:50:20 PM	69360					

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 30

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208419

Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: BHA5A						
Project: Abby BLF State 1		(Collection Dat	e: 8/4	4/2022 11:05:00 AM		
Lab ID: 2208419-002	Matrix: SOIL		Received Dat	e: 8/6	5/2022 10:30:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: JMT	
Chloride	160	60	mg/Kg	20	8/12/2022 11:35:51 PM	69475	
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS				Analys	t: SB	
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/12/2022 6:11:11 AM	69404	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/12/2022 6:11:11 AM	69404	
Surr: DNOP	120	21-129	%Rec	1	8/12/2022 6:11:11 AM	69404	
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: BRM	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/11/2022 3:37:52 PM	69360	
Surr: BFB	109	37.7-212	%Rec	1	8/11/2022 3:37:52 PM	69360	
EPA METHOD 8021B: VOLATILES					Analys	t: BRM	
Benzene	ND	0.025	mg/Kg	1	8/11/2022 3:37:52 PM	69360	
Toluene	ND	0.049	mg/Kg	1	8/11/2022 3:37:52 PM	69360	
Ethylbenzene	ND	0.049	mg/Kg	1	8/11/2022 3:37:52 PM	69360	
Xylenes, Total	ND	0.099	mg/Kg	1	8/11/2022 3:37:52 PM	69360	
Surr: 4-Bromofluorobenzene	99.6	70-130	%Rec	1	8/11/2022 3:37:52 PM	69360	

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208419

Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: BHA6A							
Project: Abby BLF State 1	Collection Date: 8/4/2022 11:10:00 AM							
Lab ID: 2208419-003	Matrix: SOIL		Received Dat	e: 8/6	5/2022 10:30:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: JMT		
Chloride	82	60	mg/Kg	20	8/12/2022 11:48:12 PN	69475		
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS				Analys	t: SB		
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/12/2022 6:35:09 AM	69404		
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/12/2022 6:35:09 AM	69404		
Surr: DNOP	111	21-129	%Rec	1	8/12/2022 6:35:09 AM	69404		
EPA METHOD 8015D: GASOLINE RANG	Ε				Analys	t: BRM		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/11/2022 4:01:32 PM	69360		
Surr: BFB	110	37.7-212	%Rec	1	8/11/2022 4:01:32 PM	69360		
EPA METHOD 8021B: VOLATILES					Analys	t: BRM		
Benzene	ND	0.024	mg/Kg	1	8/11/2022 4:01:32 PM	69360		
Toluene	ND	0.048	mg/Kg	1	8/11/2022 4:01:32 PM	69360		
Ethylbenzene	ND	0.048	mg/Kg	1	8/11/2022 4:01:32 PM	69360		
Xylenes, Total	ND	0.097	mg/Kg	1	8/11/2022 4:01:32 PM	69360		
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/11/2022 4:01:32 PM	69360		

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208419

Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: BHA7A							
Project: Abby BLF State 1	Collection Date: 8/4/2022 11:15:00 AM							
Lab ID: 2208419-004	Matrix: SOIL		Received Date	e: 8/6	5/2022 10:30:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: JMT		
Chloride	ND	59	mg/Kg	20	8/13/2022 12:00:33 AM	69475		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: SB		
Diesel Range Organics (DRO)	190	14	mg/Kg	1	8/12/2022 6:59:01 AM	69404		
Motor Oil Range Organics (MRO)	49	48	mg/Kg	1	8/12/2022 6:59:01 AM	69404		
Surr: DNOP	107	21-129	%Rec	1	8/12/2022 6:59:01 AM	69404		
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: BRM		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/11/2022 4:25:21 PM	69360		
Surr: BFB	108	37.7-212	%Rec	1	8/11/2022 4:25:21 PM	69360		
EPA METHOD 8021B: VOLATILES					Analys	t: BRM		
Benzene	ND	0.024	mg/Kg	1	8/11/2022 4:25:21 PM	69360		
Toluene	ND	0.049	mg/Kg	1	8/11/2022 4:25:21 PM	69360		
Ethylbenzene	ND	0.049	mg/Kg	1	8/11/2022 4:25:21 PM	69360		
Xylenes, Total	ND	0.098	mg/Kg	1	8/11/2022 4:25:21 PM	69360		
Surr: 4-Bromofluorobenzene	98.2	70-130	%Rec	1	8/11/2022 4:25:21 PM	69360		

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208419

Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: BHB5							
Project: Abby BLF State 1	Collection Date: 8/4/2022 12:00:00 PM							
Lab ID: 2208419-005	Matrix: SOIL		Received Dat	e: 8/6	5/2022 10:30:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: JMT		
Chloride	ND	60	mg/Kg	20	8/13/2022 12:12:54 AM	69475		
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analys	t: SB		
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/12/2022 7:22:41 AM	69404		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/12/2022 7:22:41 AM	69404		
Surr: DNOP	110	21-129	%Rec	1	8/12/2022 7:22:41 AM	69404		
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: BRM		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/11/2022 4:49:04 PM	69360		
Surr: BFB	109	37.7-212	%Rec	1	8/11/2022 4:49:04 PM	69360		
EPA METHOD 8021B: VOLATILES					Analys	t: BRM		
Benzene	ND	0.025	mg/Kg	1	8/11/2022 4:49:04 PM	69360		
Toluene	ND	0.049	mg/Kg	1	8/11/2022 4:49:04 PM	69360		
Ethylbenzene	ND	0.049	mg/Kg	1	8/11/2022 4:49:04 PM	69360		
Xylenes, Total	ND	0.099	mg/Kg	1	8/11/2022 4:49:04 PM	69360		
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/11/2022 4:49:04 PM	69360		

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208419

Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: BHB6							
Project: Abby BLF State 1	Collection Date: 8/4/2022 12:05:00 PM							
Lab ID: 2208419-006	Matrix: SOIL		Received Dat	e: 8/6	5/2022 10:30:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: JMT		
Chloride	ND	60	mg/Kg	20	8/12/2022 10:10:13 PM	69478		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: SB		
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/12/2022 7:46:21 AM	69404		
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	8/12/2022 7:46:21 AM	69404		
Surr: DNOP	105	21-129	%Rec	1	8/12/2022 7:46:21 AM	69404		
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	t: BRM		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/11/2022 5:12:45 PM	69360		
Surr: BFB	110	37.7-212	%Rec	1	8/11/2022 5:12:45 PM	69360		
EPA METHOD 8021B: VOLATILES					Analys	t: BRM		
Benzene	ND	0.024	mg/Kg	1	8/11/2022 5:12:45 PM	69360		
Toluene	ND	0.048	mg/Kg	1	8/11/2022 5:12:45 PM	69360		
Ethylbenzene	ND	0.048	mg/Kg	1	8/11/2022 5:12:45 PM	69360		
Xylenes, Total	ND	0.096	mg/Kg	1	8/11/2022 5:12:45 PM	69360		
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/11/2022 5:12:45 PM	69360		

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208419

Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: BHB7							
Project: Abby BLF State 1	Collection Date: 8/4/2022 12:10:00 PM							
Lab ID: 2208419-007	Matrix: SOIL		Received Dat	e: 8/6	5/2022 10:30:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: JMT		
Chloride	110	60	mg/Kg	20	8/12/2022 10:47:27 PM	69478		
EPA METHOD 8015M/D: DIESEL RAM	NGE ORGANICS				Analys	t: SB		
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/12/2022 8:10:07 AM	69404		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/12/2022 8:10:07 AM	69404		
Surr: DNOP	106	21-129	%Rec	1	8/12/2022 8:10:07 AM	69404		
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: BRM		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/11/2022 5:36:25 PM	69360		
Surr: BFB	110	37.7-212	%Rec	1	8/11/2022 5:36:25 PM	69360		
EPA METHOD 8021B: VOLATILES					Analys	t: BRM		
Benzene	ND	0.025	mg/Kg	1	8/11/2022 5:36:25 PM	69360		
Toluene	ND	0.050	mg/Kg	1	8/11/2022 5:36:25 PM	69360		
Ethylbenzene	ND	0.050	mg/Kg	1	8/11/2022 5:36:25 PM	69360		
Xylenes, Total	ND	0.099	mg/Kg	1	8/11/2022 5:36:25 PM	69360		
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	8/11/2022 5:36:25 PM	69360		

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208419

Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: BHB8					
Project: Abby BLF State 1		(Collection Dat	e: 8/4	4/2022 12:15:00 PM	
Lab ID: 2208419-008	Matrix: SOIL		Received Dat	e: 8/6	5/2022 10:30:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: JMT
Chloride	97	60	mg/Kg	20	8/12/2022 10:59:51 PM	69478
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analys	t: SB
Diesel Range Organics (DRO)	190	15	mg/Kg	1	8/12/2022 8:33:49 AM	69404
Motor Oil Range Organics (MRO)	51	50	mg/Kg	1	8/12/2022 8:33:49 AM	69404
Surr: DNOP	111	21-129	%Rec	1	8/12/2022 8:33:49 AM	69404
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: BRM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/11/2022 6:00:05 PM	69360
Surr: BFB	125	37.7-212	%Rec	1	8/11/2022 6:00:05 PM	69360
EPA METHOD 8021B: VOLATILES					Analys	t: BRM
Benzene	ND	0.024	mg/Kg	1	8/11/2022 6:00:05 PM	69360
Toluene	ND	0.048	mg/Kg	1	8/11/2022 6:00:05 PM	69360
Ethylbenzene	ND	0.048	mg/Kg	1	8/11/2022 6:00:05 PM	69360
Xylenes, Total	ND	0.097	mg/Kg	1	8/11/2022 6:00:05 PM	69360
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/11/2022 6:00:05 PM	69360

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2208419

Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: BHC5							
Project: Abby BLF State 1	Collection Date: 8/4/2022 2:00:00 PM							
Lab ID: 2208419-009	Matrix: SOIL		Received Dat	e: 8/6	5/2022 10:30:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analyst	: ЈМТ		
Chloride	120	60	mg/Kg	20	8/12/2022 11:37:04 PM	69478		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	: SB		
Diesel Range Organics (DRO)	280	14	mg/Kg	1	8/12/2022 8:57:34 AM	69404		
Motor Oil Range Organics (MRO)	80	47	mg/Kg	1	8/12/2022 8:57:34 AM	69404		
Surr: DNOP	109	21-129	%Rec	1	8/12/2022 8:57:34 AM	69404		
EPA METHOD 8015D: GASOLINE RANG	BE				Analyst	BRM		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/11/2022 6:23:49 PM	69360		
Surr: BFB	134	37.7-212	%Rec	1	8/11/2022 6:23:49 PM	69360		
EPA METHOD 8021B: VOLATILES					Analyst	BRM		
Benzene	ND	0.025	mg/Kg	1	8/11/2022 6:23:49 PM	69360		
Toluene	ND	0.050	mg/Kg	1	8/11/2022 6:23:49 PM	69360		
Ethylbenzene	ND	0.050	mg/Kg	1	8/11/2022 6:23:49 PM	69360		
Xylenes, Total	ND	0.10	mg/Kg	1	8/11/2022 6:23:49 PM	69360		
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/11/2022 6:23:49 PM	69360		

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2208419

Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: BHC6							
Project: Abby BLF State 1	Collection Date: 8/4/2022 2:05:00 PM							
Lab ID: 2208419-010	Matrix: SOIL		Received Dat	e: 8/6	5/2022 10:30:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: JMT		
Chloride	ND	60	mg/Kg	20	8/12/2022 11:49:28 PM	69478		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: SB		
Diesel Range Organics (DRO)	72	15	mg/Kg	1	8/12/2022 9:21:24 AM	69404		
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/12/2022 9:21:24 AM	69404		
Surr: DNOP	102	21-129	%Rec	1	8/12/2022 9:21:24 AM	69404		
EPA METHOD 8015D: GASOLINE RANG	BE				Analys	t: BRM		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/11/2022 6:47:25 PM	69360		
Surr: BFB	115	37.7-212	%Rec	1	8/11/2022 6:47:25 PM	69360		
EPA METHOD 8021B: VOLATILES					Analys	t: BRM		
Benzene	ND	0.025	mg/Kg	1	8/11/2022 6:47:25 PM	69360		
Toluene	ND	0.050	mg/Kg	1	8/11/2022 6:47:25 PM	69360		
Ethylbenzene	ND	0.050	mg/Kg	1	8/11/2022 6:47:25 PM	69360		
Xylenes, Total	ND	0.099	mg/Kg	1	8/11/2022 6:47:25 PM	69360		
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	8/11/2022 6:47:25 PM	69360		

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2208419

Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: BHC7							
Project: Abby BLF State 1	Collection Date: 8/4/2022 2:10:00 PM							
Lab ID: 2208419-011	Matrix: SOIL		Received Date	e: 8/6	5/2022 10:30:00 AM			
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS					Analys	t: CAS		
Chloride	100	59	mg/Kg	20	8/13/2022 6:00:17 PM	69482		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: SB		
Diesel Range Organics (DRO)	100	14	mg/Kg	1	8/13/2022 4:58:00 AM	69457		
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/13/2022 4:58:00 AM	69457		
Surr: DNOP	114	21-129	%Rec	1	8/13/2022 4:58:00 AM	69457		
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: BRM		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/11/2022 7:11:01 PM	69360		
Surr: BFB	127	37.7-212	%Rec	1	8/11/2022 7:11:01 PM	69360		
EPA METHOD 8021B: VOLATILES					Analys	t: BRM		
Benzene	ND	0.025	mg/Kg	1	8/11/2022 7:11:01 PM	69360		
Toluene	ND	0.050	mg/Kg	1	8/11/2022 7:11:01 PM	69360		
Ethylbenzene	ND	0.050	mg/Kg	1	8/11/2022 7:11:01 PM	69360		
Xylenes, Total	ND	0.099	mg/Kg	1	8/11/2022 7:11:01 PM	69360		
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/11/2022 7:11:01 PM	69360		

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2208419

Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: BHC8						
Project: Abby BLF State 1		(Collection Dat	e: 8/4	4/2022 2:15:00 PM		
Lab ID: 2208419-012	Matrix: SOIL		Received Dat	e: 8/6	5/2022 10:30:00 AM	0:30:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: JMT	
Chloride	160	60	mg/Kg	20	8/13/2022 12:01:52 AM	69478	
EPA METHOD 8015M/D: DIESEL RAM	NGE ORGANICS				Analys	t: SB	
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/12/2022 5:21:38 PM	69422	
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	8/12/2022 5:21:38 PM	69422	
Surr: DNOP	94.5	21-129	%Rec	1	8/12/2022 5:21:38 PM	69422	
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: BRM	
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/11/2022 9:32:38 PM	69364	
Surr: BFB	106	37.7-212	%Rec	1	8/11/2022 9:32:38 PM	69364	
EPA METHOD 8021B: VOLATILES					Analys	t: BRM	
Benzene	ND	0.023	mg/Kg	1	8/11/2022 9:32:38 PM	69364	
Toluene	ND	0.046	mg/Kg	1	8/11/2022 9:32:38 PM	69364	
Ethylbenzene	ND	0.046	mg/Kg	1	8/11/2022 9:32:38 PM	69364	
Xylenes, Total	ND	0.093	mg/Kg	1	8/11/2022 9:32:38 PM	69364	
Surr: 4-Bromofluorobenzene	99.2	70-130	%Rec	1	8/11/2022 9:32:38 PM	69364	

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 range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Lab Order 2208419

Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: BHD5						
Project: Abby BLF State 1		(Collection Dat	e: 8/4	4/2022 2:30:00 PM		
Lab ID: 2208419-013	Matrix: SOIL		Received Dat	e: 8/6	5/2022 10:30:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	st: JMT	
Chloride	ND	60	mg/Kg	20	8/13/2022 12:14:16 AM	1 69478	
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analys	st: SB	
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/12/2022 6:35:08 PM	69422	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/12/2022 6:35:08 PM	69422	
Surr: DNOP	112	21-129	%Rec	1	8/12/2022 6:35:08 PM	69422	
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	st: BRM	
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	8/11/2022 10:43:23 PM	1 69364	
Surr: BFB	112	37.7-212	%Rec	1	8/11/2022 10:43:23 PM	1 69364	
EPA METHOD 8021B: VOLATILES					Analys	st: BRM	
Benzene	ND	0.023	mg/Kg	1	8/11/2022 10:43:23 PM	1 69364	
Toluene	ND	0.046	mg/Kg	1	8/11/2022 10:43:23 PM	1 69364	
Ethylbenzene	ND	0.046	mg/Kg	1	8/11/2022 10:43:23 PM	1 69364	
Xylenes, Total	ND	0.092	mg/Kg	1	8/11/2022 10:43:23 PM	1 69364	
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/11/2022 10:43:23 PM	1 69364	

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 range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: BHD6						
Project: Abby BLF State 1		(Collection Dat	e: 8/4	4/2022 2:35:00 PM		
Lab ID: 2208419-014	Matrix: SOIL	5/2022 10:30:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: JMT	
Chloride	ND	60	mg/Kg	20	8/13/2022 12:26:40 AN	69478	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: SB	
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/12/2022 6:59:52 PM	69422	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/12/2022 6:59:52 PM	69422	
Surr: DNOP	101	21-129	%Rec	1	8/12/2022 6:59:52 PM	69422	
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: BRM	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/11/2022 11:54:07 PN	69364	
Surr: BFB	109	37.7-212	%Rec	1	8/11/2022 11:54:07 PN	69364	
EPA METHOD 8021B: VOLATILES					Analys	t: BRM	
Benzene	ND	0.024	mg/Kg	1	8/11/2022 11:54:07 PN	69364	
Toluene	ND	0.047	mg/Kg	1	8/11/2022 11:54:07 PN	69364	
Ethylbenzene	ND	0.047	mg/Kg	1	8/11/2022 11:54:07 PN	69364	
Xylenes, Total	ND	0.095	mg/Kg	1	8/11/2022 11:54:07 PN	69364	
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	8/11/2022 11:54:07 PN	69364	

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit
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Lab Order 2208419

Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: BHD7						
Project: Abby BLF State 1		(Collection Dat	e: 8/4	4/2022 2:40:00 PM		
Lab ID: 2208419-015	Matrix: SOIL		Received Dat	e: 8/6	6/2022 10:30:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: JMT	
Chloride	ND	60	mg/Kg	20	8/13/2022 12:39:05 AN	69478	
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analys	t: SB	
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/12/2022 7:24:24 PM	69422	
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/12/2022 7:24:24 PM	69422	
Surr: DNOP	107	21-129	%Rec	1	8/12/2022 7:24:24 PM	69422	
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: BRM	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/12/2022 12:17:48 AN	69364	
Surr: BFB	109	37.7-212	%Rec	1	8/12/2022 12:17:48 AN	69364	
EPA METHOD 8021B: VOLATILES					Analys	t: BRM	
Benzene	ND	0.025	mg/Kg	1	8/12/2022 12:17:48 AN	69364	
Toluene	ND	0.050	mg/Kg	1	8/12/2022 12:17:48 AN	69364	
Ethylbenzene	ND	0.050	mg/Kg	1	8/12/2022 12:17:48 AN	69364	
Xylenes, Total	ND	0.099	mg/Kg	1	8/12/2022 12:17:48 AN	69364	
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	8/12/2022 12:17:48 AN	69364	

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: BHD8						
Project: Abby BLF State 1		(Collection Dat	e: 8/4	4/2022 2:45:00 PM		
Lab ID: 2208419-016	Matrix: SOIL		Received Dat	e: 8/6	5/2022 10:30:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: JMT	
Chloride	ND	60	mg/Kg	20	8/13/2022 12:51:29 AM	69478	
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analys	t: SB	
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/12/2022 7:49:04 PM	69422	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/12/2022 7:49:04 PM	69422	
Surr: DNOP	95.6	21-129	%Rec	1	8/12/2022 7:49:04 PM	69422	
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: BRM	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/12/2022 12:41:24 AM	69364	
Surr: BFB	109	37.7-212	%Rec	1	8/12/2022 12:41:24 AM	69364	
EPA METHOD 8021B: VOLATILES					Analys	t: BRM	
Benzene	ND	0.024	mg/Kg	1	8/12/2022 12:41:24 AM	69364	
Toluene	ND	0.048	mg/Kg	1	8/12/2022 12:41:24 AM	69364	
Ethylbenzene	ND	0.048	mg/Kg	1	8/12/2022 12:41:24 AM	69364	
Xylenes, Total	ND	0.097	mg/Kg	1	8/12/2022 12:41:24 AM	69364	
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/12/2022 12:41:24 AM	69364	

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208419

Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: SWAB1						
Project: Abby BLF State 1		C	collection Date	e: 8/4	/2022 11:30:00 AM		
Lab ID: 2208419-017	Matrix: SOIL]	Received Date	e: 8/6	5/2022 10:30:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: JMT	
Chloride	120	59	mg/Kg	20	8/13/2022 1:03:53 AM	69478	
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analys	t: SB	
Diesel Range Organics (DRO)	110	15	mg/Kg	1	8/12/2022 8:13:37 PM	69422	
Motor Oil Range Organics (MRO)	63	49	mg/Kg	1	8/12/2022 8:13:37 PM	69422	
Surr: DNOP	121	21-129	%Rec	1	8/12/2022 8:13:37 PM	69422	
EPA METHOD 8015D: GASOLINE RAM	IGE				Analys	t: BRM	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/12/2022 1:05:01 AM	69364	
Surr: BFB	108	37.7-212	%Rec	1	8/12/2022 1:05:01 AM	69364	
EPA METHOD 8021B: VOLATILES					Analys	t: BRM	
Benzene	ND	0.024	mg/Kg	1	8/12/2022 1:05:01 AM	69364	
Toluene	ND	0.049	mg/Kg	1	8/12/2022 1:05:01 AM	69364	
Ethylbenzene	ND	0.049	mg/Kg	1	8/12/2022 1:05:01 AM	69364	
Xylenes, Total	ND	0.097	mg/Kg	1	8/12/2022 1:05:01 AM	69364	
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	8/12/2022 1:05:01 AM	69364	

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208419

Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: SWAB2						
Project: Abby BLF State 1		(Collection Dat	e: 8/4	4/2022 11:35:00 AM		
Lab ID: 2208419-018	Matrix: SOIL	5/2022 10:30:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: JMT	
Chloride	68	59	mg/Kg	20	8/13/2022 1:16:18 AM	69478	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analys	t: SB	
Diesel Range Organics (DRO)	900	15	mg/Kg	1	8/12/2022 8:38:08 PM	69422	
Motor Oil Range Organics (MRO)	340	50	mg/Kg	1	8/12/2022 8:38:08 PM	69422	
Surr: DNOP	119	21-129	%Rec	1	8/12/2022 8:38:08 PM	69422	
EPA METHOD 8015D: GASOLINE RANG	GE				Analys	t: BRM	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/12/2022 1:28:39 AM	69364	
Surr: BFB	108	37.7-212	%Rec	1	8/12/2022 1:28:39 AM	69364	
EPA METHOD 8021B: VOLATILES					Analys	t: BRM	
Benzene	ND	0.023	mg/Kg	1	8/12/2022 1:28:39 AM	69364	
Toluene	ND	0.047	mg/Kg	1	8/12/2022 1:28:39 AM	69364	
Ethylbenzene	ND	0.047	mg/Kg	1	8/12/2022 1:28:39 AM	69364	
Xylenes, Total	ND	0.093	mg/Kg	1	8/12/2022 1:28:39 AM	69364	
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	8/12/2022 1:28:39 AM	69364	

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208419

Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: SWBC1						
Project: Abby BLF State 1		(Collection Dat	e: 8/4	4/2022 3:15:00 PM		
Lab ID: 2208419-019	Matrix: SOIL	5/2022 10:30:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: JMT	
Chloride	920	60	mg/Kg	20	8/13/2022 1:28:42 AM	69478	
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analys	t: SB	
Diesel Range Organics (DRO)	44	14	mg/Kg	1	8/12/2022 9:27:07 PM	69422	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/12/2022 9:27:07 PM	69422	
Surr: DNOP	128	21-129	%Rec	1	8/12/2022 9:27:07 PM	69422	
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: BRM	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/12/2022 1:52:14 AM	69364	
Surr: BFB	106	37.7-212	%Rec	1	8/12/2022 1:52:14 AM	69364	
EPA METHOD 8021B: VOLATILES					Analys	t: BRM	
Benzene	ND	0.024	mg/Kg	1	8/12/2022 1:52:14 AM	69364	
Toluene	ND	0.048	mg/Kg	1	8/12/2022 1:52:14 AM	69364	
Ethylbenzene	ND	0.048	mg/Kg	1	8/12/2022 1:52:14 AM	69364	
Xylenes, Total	ND	0.097	mg/Kg	1	8/12/2022 1:52:14 AM	69364	
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	8/12/2022 1:52:14 AM	69364	

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 range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208419

Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: SWBC2						
Project: Abby BLF State 1		(Collection Dat	e: 8/4	4/2022 3:20:00 PM		
Lab ID: 2208419-020	Matrix: SOIL	5/2022 10:30:00 AM					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: JMT	
Chloride	580	60	mg/Kg	20	8/13/2022 2:05:56 AM	69478	
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analys	t: SB	
Diesel Range Organics (DRO)	400	14	mg/Kg	1	8/12/2022 9:51:32 PM	69422	
Motor Oil Range Organics (MRO)	110	48	mg/Kg	1	8/12/2022 9:51:32 PM	69422	
Surr: DNOP	106	21-129	%Rec	1	8/12/2022 9:51:32 PM	69422	
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	t: BRM	
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	8/12/2022 2:15:58 AM	69364	
Surr: BFB	116	37.7-212	%Rec	5	8/12/2022 2:15:58 AM	69364	
EPA METHOD 8021B: VOLATILES					Analys	t: BRM	
Benzene	ND	0.12	mg/Kg	5	8/12/2022 2:15:58 AM	69364	
Toluene	ND	0.24	mg/Kg	5	8/12/2022 2:15:58 AM	69364	
Ethylbenzene	ND	0.24	mg/Kg	5	8/12/2022 2:15:58 AM	69364	
Xylenes, Total	ND	0.49	mg/Kg	5	8/12/2022 2:15:58 AM	69364	
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	5	8/12/2022 2:15:58 AM	69364	

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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range RL Reporting Limit
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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208419

Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: SWC5						
Project: Abby BLF State 1		(Collec	tion Dat	e: 8/4	4/2022 3:00:00 PM	
Lab ID: 2208419-021	Matrix: SOIL		Rece	ived Dat	e: 8/6/2022 10:30:00 AM		
Analyses	Result	RL	Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: JMT
Chloride	120	60		mg/Kg	20	8/13/2022 2:18:20 AM	69478
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS					Analys	t: SB
Diesel Range Organics (DRO)	3300	140		mg/Kg	10	8/15/2022 2:58:28 PM	69488
Motor Oil Range Organics (MRO)	660	450		mg/Kg	10	8/15/2022 2:58:28 PM	69488
Surr: DNOP	0	21-129	S	%Rec	10	8/15/2022 2:58:28 PM	69488
EPA METHOD 8015D: GASOLINE RAI	NGE					Analys	t: BRM
Gasoline Range Organics (GRO)	230	24		mg/Kg	5	8/12/2022 2:39:43 AM	69364
Surr: BFB	370	37.7-212	S	%Rec	5	8/12/2022 2:39:43 AM	69364
EPA METHOD 8021B: VOLATILES						Analys	t: BRM
Benzene	ND	0.12		mg/Kg	5	8/12/2022 2:39:43 AM	69364
Toluene	0.28	0.24		mg/Kg	5	8/12/2022 2:39:43 AM	69364
Ethylbenzene	0.93	0.24		mg/Kg	5	8/12/2022 2:39:43 AM	69364
Xylenes, Total	9.2	0.48		mg/Kg	5	8/12/2022 2:39:43 AM	69364
Surr: 4-Bromofluorobenzene	118	70-130		%Rec	5	8/12/2022 2:39:43 AM	69364

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 range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208419

Date Reported: 8/30/2022

CLIENT: GHD Midland	Client Sample ID: SWCD1 Collection Date: 8/4/2022 3:05:00 PM						
Project: Abby BLF State 1 Lab ID: 2208419-022	Matrix: SOIL				5/2022 10:30:00 AM		
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: JMT	
Chloride	ND	60	mg/Kg	20	8/13/2022 2:30:44 AM	69478	
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analys	t: SB	
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	8/12/2022 10:16:12 PM	69422	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/12/2022 10:16:12 PM	69422	
Surr: DNOP	99.1	21-129	%Rec	1	8/12/2022 10:16:12 PM	69422	
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	t: BRM	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/12/2022 3:26:59 AM	69364	
Surr: BFB	107	37.7-212	%Rec	1	8/12/2022 3:26:59 AM	69364	
EPA METHOD 8021B: VOLATILES					Analys	t: BRM	
Benzene	ND	0.025	mg/Kg	1	8/12/2022 3:26:59 AM	69364	
Toluene	ND	0.049	mg/Kg	1	8/12/2022 3:26:59 AM	69364	
Ethylbenzene	ND	0.049	mg/Kg	1	8/12/2022 3:26:59 AM	69364	
Xylenes, Total	ND	0.099	mg/Kg	1	8/12/2022 3:26:59 AM	69364	
Surr: 4-Bromofluorobenzene	99.3	70-130	%Rec	1	8/12/2022 3:26:59 AM	69364	

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 range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

Lab Order 2208419

Date Reported: 8/30/2022

CLIENT: GHD Midland		Cl	ient Sample II	D: SV	VCD2					
Project: Abby BLF State 1	Collection Date: 8/4/2022 3:10:00 PM									
Lab ID: 2208419-023	Matrix: SOIL Received Date: 8/6/2022 10:30:00 AM									
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analys	t: JMT				
Chloride	ND	60	mg/Kg	20	8/13/2022 2:43:08 AM	69478				
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				Analys	t: SB				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	8/12/2022 10:40:44 PM	69422				
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/12/2022 10:40:44 PM	69422				
Surr: DNOP	97.6	21-129	%Rec	1	8/12/2022 10:40:44 PM	69422				
EPA METHOD 8015D: GASOLINE RAM	IGE				Analys	t: BRM				
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	8/12/2022 3:50:33 AM	69364				
Surr: BFB	108	37.7-212	%Rec	1	8/12/2022 3:50:33 AM	69364				
EPA METHOD 8021B: VOLATILES					Analys	t: BRM				
Benzene	ND	0.024	mg/Kg	1	8/12/2022 3:50:33 AM	69364				
Toluene	ND	0.047	mg/Kg	1	8/12/2022 3:50:33 AM	69364				
Ethylbenzene	ND	0.047	mg/Kg	1	8/12/2022 3:50:33 AM	69364				
Xylenes, Total	ND	0.094	mg/Kg	1	8/12/2022 3:50:33 AM	69364				
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	8/12/2022 3:50:33 AM	69364				

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 range due to dilution or matrix interference S
- В Analyte detected in the associated Method Blank
- Е Estimated value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

2208419

WO#:

		ntal Analysis Laboratory, Inc.	30-Aug-2
Client: Project:		Midland 9 BLF State 1	
Sample ID:	MB-69478	SampType: mblk TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 69478 RunNo: 90258	
Prep Date:	8/12/2022	Analysis Date: 8/12/2022 SeqNo: 3219193 Units: mg/Kg	
Analyte Chloride		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLi ND 1.5	mit Qual
	LCS-69478	SampType: Ics TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 69478 RunNo: 90258	
Prep Date:	8/12/2022	Analysis Date: 8/12/2022 SeqNo: 3219194 Units: mg/Kg	
Analyte		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLi	mit Qual
Chloride		14 1.5 15.00 0 96.2 90 110	
Sample ID:	MB-69475	SampType: mblk TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 69475 RunNo: 90236	
Prep Date:	8/12/2022	Analysis Date: 8/12/2022 SeqNo: 3219316 Units: mg/Kg	
Analyte		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLi	mit Qual
Chloride		ND 1.5	
Sample ID:	LCS-69475	SampType: Ics TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 69475 RunNo: 90236	
Prep Date:	8/12/2022	Analysis Date: 8/12/2022 SeqNo: 3219317 Units: mg/Kg	
Analyte		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLi	mit Qual
Chloride		15 1.5 15.00 0 98.7 90 110	
Sample ID:	MB-69482	SampType: mblk TestCode: EPA Method 300.0: Anions	
Client ID:	PBS	Batch ID: 69482 RunNo: 90266	
Prep Date:	8/13/2022	Analysis Date: 8/13/2022 SeqNo: 3219654 Units: mg/Kg	
Analyte		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLi	mit Qual
Chloride		ND 1.5	
Sample ID:	LCS-69482	SampType: Ics TestCode: EPA Method 300.0: Anions	
Client ID:	LCSS	Batch ID: 69482 RunNo: 90266	
Prep Date:	8/13/2022	Analysis Date: 8/13/2022 SeqNo: 3219655 Units: mg/Kg	
Analyte		Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLi	mit Qual
Chloride		14 1.5 15.00 0 93.1 90 110	

Qualifiers:

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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

NO#	#: 2208419
	30-Aug-22

Client: GHD Mid Project: Abby BL										
Sample ID: LCS-69404	SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch ID: 69404	RunNo: 90218								
Prep Date: 8/10/2022	Analysis Date: 8/11/2022	SeqNo: 3217777 Units:	mg/Kg							
Analyte	Result PQL SPK value SPK	Ref Val %REC LowLimit HighL	imit %RPD RPDLimit Qual							
Diesel Range Organics (DRO)	43 15 50.00		127							
Surr: DNOP	4.5 5.000	89.7 21	129							
Sample ID: MB-69404	SampType: MBLK	TestCode: EPA Method 8015M/E	D: Diesel Range Organics							
Client ID: PBS	Batch ID: 69404	RunNo: 90218								
Prep Date: 8/10/2022	Analysis Date: 8/11/2022	SeqNo: 3217781 Units:	mg/Kg							
Analyte	Result PQL SPK value SPK	Ref Val %REC LowLimit HighL	imit %RPD RPDLimit Qual							
Diesel Range Organics (DRO)	ND 15									
Motor Oil Range Organics (MRO) Surr: DNOP	ND 50 9.3 10.00	93.4 21	129							
	9.5 10.00	95.4 21	129							
Sample ID: MB-69457	SampType: MBLK	TestCode: EPA Method 8015M/E	D: Diesel Range Organics							
Client ID: PBS	Batch ID: 69457	RunNo: 90218								
Prep Date: 8/12/2022	Analysis Date: 8/12/2022	SeqNo: 3218061 Units:	mg/Kg							
Analyte	Result PQL SPK value SPK	Ref Val %REC LowLimit HighL	imit %RPD RPDLimit Qual							
Diesel Range Organics (DRO)	ND 15									
Motor Oil Range Organics (MRO) Surr: DNOP	ND 50 9.7 10.00	97.3 21	129							
Sample ID: LCS-69457	SampType: LCS	TestCode: EPA Method 8015M/E	D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 69457	RunNo: 90218								
Prep Date: 8/12/2022	Analysis Date: 8/12/2022	SeqNo: 3218062 Units:	mg/Kg							
Analyte	Result PQL SPK value SPK	Ŷ								
Diesel Range Organics (DRO) Surr: DNOP	48 15 50.00 4.7 5.000		127 129							
		01.0 21								
Sample ID: 2208419-012AMS	SampType: MS	TestCode: EPA Method 8015M/E	D: Diesel Range Organics							
Client ID: BHC8	Batch ID: 69422	RunNo: 90247								
Prep Date: 8/11/2022	Analysis Date: 8/12/2022	SeqNo: 3218502 Units:	mg/Kg							
Analyte	Result PQL SPK value SPK	-								
Diesel Range Organics (DRO)	40 13 42.70		154							
Surr: DNOP	3.9 4.270	91.2 21	129							

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

QC SUMMARY REPORT Hall

•	VINIARY vironmental			aborato	ry, Inc.					WO#:	2208419 30-Aug-22
Client: Project:	GHD Mid Abby BLF										
Sample ID:	2208419-012AMSD	SampT	уре: МS	D	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID:	BHC8	Batch	ID: 694	22	F	RunNo: 9()247				
Prep Date:	8/11/2022	Analysis D	ate: 8/ *	2/2022	S	SeqNo: 32	218503	Units: mg/K	ſg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	46	13	44.13	0	105	36.1	154	15.2	33.9	
Surr: DNOP		4.6		4.413		104	21	129	0	0	
Sample ID:	LCS-69422	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID:	LCSS	Batch	n ID: 694	22	F	RunNo: 9(0247				
Prep Date:	8/11/2022	Analysis D	ate: 8/1	2/2022	5	SeqNo: 32	218543	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	45	15	50.00	0	89.6	64.4	127			
Surr: DNOP		3.5		5.000		69.9	21	129			
Sample ID:	MB-69422	SampT	уре: МВ	LK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID:	PBS	Batch	n ID: 694	22	F	RunNo: 9()247				
Prep Date:	8/11/2022	Analysis D	ate: 8/ 1	2/2022	5	SeqNo: 32	218545	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	ND	15								
Motor Oil Rang	e Organics (MRO)	ND	50								
Surr: DNOP		7.9		10.00		78.5	21	129			
Sample ID:	MB-69488	SampT	уре: МВ	LK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	Organics	
Client ID:	PBS	Batch	n ID: 694	88	F	RunNo: 9(0269				

Sample ID: MB-69488	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 69488	RunNo: 90269							
Prep Date: 8/15/2022	Analysis Date: 8/15/2022	SeqNo: 3219899 Units: mg/Kg							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD	RPDLimit Qual						
Diesel Range Organics (DRO)	ND 15								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	10 10.00	99.8 21 129							
Sample ID: LCS-69488	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range	Organics						
Client ID: LCSS	Batch ID: 69488	RunNo: 90269							
Prep Date: 8/15/2022	Analysis Date: 8/15/2022	SeqNo: 3219900 Units: mg/Kg							
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD	RPDLimit Qual						
Diesel Range Organics (DRO)	47 15 50.00	0 93.9 64.4 127							

Diesel Range Organics (DRO) Surr: DNOP

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix interference S

4.3

Analyte detected in the associated Method Blank В

86.4

21

129

Е Estimated value

5.000

- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2208419
	30-140-22

30-Aug-22

Client: GHD Mic Project: Abby BLI									
Sample ID: 2208419-012ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BHC8	Batch ID: 693	-		RunNo: 90					
Prep Date: 8/9/2022	Analysis Date: 8/	11/2022	ç	SeqNo: 32	217188	Units: mg/K	g		
Analyte	Result PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	24 4.7 2000	23.56 942.5	0	99.8 211	70 37.7	130 212			
Sample ID: 2208419-012amsd	SampType: MS	D	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	1	
Client ID: BHC8	Batch ID: 693	364	F	RunNo: 90)211				
Prep Date: 8/9/2022	Analysis Date: 8/	11/2022	S	SeqNo: 32	217189	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23 4.7	23.43	0	98.6	70	130	1.73	20	
Surr: BFB	1900	937.2		206	37.7	212	0	0	
Sample ID: Ics-69360	SampType: LC	s	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	!	
Client ID: LCSS	Batch ID: 693	360	F	RunNo: 90211					
Prep Date: 8/9/2022	Analysis Date: 8/	11/2022	SeqNo: 3217209 Units: mg/Kg						
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26 5.0	25.00	0	106	72.3	137			
Surr: BFB	2100	1000		213	37.7	212			S
Sample ID: Ics-69364	SampType: LC	s	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	1	
Client ID: LCSS	Batch ID: 693	364	F	RunNo: 90)211				
Prep Date: 8/9/2022	Analysis Date: 8/	11/2022	S	SeqNo: 32	217210	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25 5.0	25.00	0	101	72.3	137			
Surr: BFB	2100	1000		210	37.7	212			
Sample ID: mb-69360	SampType: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: PBS	Batch ID: 693	360	F	RunNo: 9(0211				
Prep Date: 8/9/2022	Analysis Date: 8/	11/2022	S	SeqNo: 32	217211	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0								
Surr: BFB	1100	1000		112	37.7	212			
Sample ID: mb-69364	SampType: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: PBS	Batch ID: 693	864	F	RunNo: 90)211				
Prep Date: 8/9/2022	Analysis Date: 8/	11/2022	S	SeqNo: 32	217212	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•						-			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- % Recovery outside of range due to dilution or matrix interference S
- Analyte detected in the associated Method Blank В

Е Estimated value

J Analyte detected below quantitation limits

Р Sample pH Not In Range

Reporting Limit RL

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2208419

30-Aug-22

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	D Midland y BLF State 1									
Sample ID: mb-69364 SampType: MBLK TestCode: EPA Method 8015D: Gasoline I										
Client ID: PBS	Batc	n ID: 693	364	F	RunNo: 9()211				
Prep Date: 8/9/2022	Analysis [Date: 8/ *	11/2022	5	SeqNo: 32	217212	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRC) ND	5.0								
Surr: BFB	1100		1000		108	37.7	212			

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

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QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2208419

30-Aug-22

Client:	GHD Mid	lland									
Project:	Abby BLF	F State 1									
Sample ID:	2208419-013ams	Samp	Гуре: МS	3	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	BHD5	Batc	h ID: 693	364	F	RunNo: 9()211				
Prep Date:	8/9/2022	Analysis [Date: 8/ *	11/2022	S	SeqNo: 32	217237	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.85	0.023	0.9268	0	91.9	68.8	120			
Toluene		0.90	0.046	0.9268	0	97.6	73.6	124			
Ethylbenzene		0.91	0.046	0.9268	0	98.5	72.7	129			
Xylenes, Total		2.7	0.093	2.780	0	97.5	75.7	126			
Surr: 4-Brom	nofluorobenzene	0.97		0.9268		104	70	130			
Sample ID:	2208419-013amsd	Samp	Гуре: МS	SD.	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	BHD5	Batc	h ID: 693	364	F	RunNo: 9(0211				
Prep Date:	8/9/2022	Analysis [Date: 8/ *	11/2022	S	SeqNo: 32	217238	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.87	0.024	0.9625	0	90.2	68.8	120	1.92	20	
Toluene		0.92	0.048	0.9625	0	95.6	73.6	124	1.69	20	
Ethylbenzene		0.93	0.048	0.9625	0	96.6	72.7	129	1.80	20	
Xylenes, Total		2.8	0.096	2.887	0	95.3	75.7	126	1.49	20	
Surr: 4-Brom	nofluorobenzene	1.0		0.9625		104	70	130	0	0	
Sample ID:	LCS-69360	Samp	Гуре: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	LCSS	Batc	h ID: 693	360	F	RunNo: 9(0211				
Prep Date:	8/9/2022	Analysis [Date: 8/ *	11/2022	S	SeqNo: 32	217257	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.95	0.025	1.000	0	95.2	80	120			
Toluene		1.0	0.050	1.000	0	99.5	80	120			
Ethylbenzene		1.0	0.050	1.000	0	100	80	120			
Xylenes, Total		3.0	0.10	3.000	0	99.1	80	120			
Surr: 4-Brom	nofluorobenzene	1.0		1.000		104	70	130			
Sample ID:	LCS-69364	Samp	Гуре: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID:	LCSS	Batc	Batch ID: 69364 RunNo: 90211								
Prep Date:	8/9/2022	Analysis [Date: 8/	11/2022	S	SeqNo: 32	217258	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		0.89	0.025	1.000	0	88.8	80	120			
Toluene		0.94	0.050	1.000	0	93.8	80	120			
loluono		0.94	0.050	1.000	0	93.8	80	120			
		0.0.									
Ethylbenzene Xylenes, Total		2.8	0.10	3.000	0	93.1	80	120			

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

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	WO#:	2208419
mental Analysis Laboratory, Inc.		30-Aug-22

	D Midland by BLF State 1									
Sample ID: mb-69360	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batc	h ID: 693	360	F	RunNo: 9()211				
Prep Date: 8/9/2022	Analysis I	Date: 8/ *	11/2022	S	SeqNo: 32	217259	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			
Sample ID: mb-69364	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: PBS	Batc	h ID: 693	364	F	RunNo: 9()211				
Prep Date: 8/9/2022	Analysis I	Date: 8/ *	11/2022	S	SeqNo: 32	217260	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	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 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

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rived by OCD: 8	731/2022 2. L TRONMEN		1	Hall Environ	mental Analys				Page 1	28 of
	LYSIS ORATORY	IAL	1		4901 Albuquerqu 5-3975 FAX: 5 ww.hallenvire	05-345-4	109 Sai 107	nple Log-In	Check List	
Client Name:	GHD Mid	land	Wo	ork Order Nu	mber: 2208	419		Rcpt	:No: 1	-
Received By:	Tracy Ca	asarrubias	8/6/20	022 10:30:0	0 AM					
Completed By		asarrubias	8/6/20	022 1:06:57	РМ					
Reviewed By:	JAS/	f/22								
<u>Chain of Cu</u>										
1. Is Chain of		ā.			Yes	\checkmark	No 🗌	Not Present		
2. How was the	ne sample del	ivered?			Couri	er				
<u>Log In</u> 3. Was an atte	empt made to	cool the same			Yes		No 🗌		7	
	inprindue to	cool the same	JIE3 !		res	v		NA 🗌		
4. Were all sar	nples receive	d at a tempera	ature of >0° (C to 6.0°C	Yes		No 🗌	NA 🗌]	
5. Sample(s) i	n proper cont	ainer(s)?			Yes		No 🗌			
6. Sufficient sa	mple volume	for indicated t	est(s)?		Yes		No 🗌			
7. Are samples	except VOA	and ONG) pr	operly preser	ved?	Yes		No 🗌			
8. Was preserv	vative added t	o bottles?			Yes [No 🔽	NA 🗌		
9. Received at	least 1 vial w	th headspace	<1/4" for AQ	VOA?	Yes [No 🗌	NA 🗹		
10. Were any sa	ample contain	ers received b	oroken?		Yes [No 🔽	# of preserved	/	/
11. Does paperv	vork match bo	ottle labels?			Yes		No 🗌	bottles checked for pH:		
(Note discre	pancies on ch	ain of custody			103 1	_		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	or >12 unless noted)	
12. Are matrices				?	Yes 🖌	2	No 🗌	Adjusted?		
13. Is it clear wh			?		Yes		No 🗌			_
14. Were all hold (If no, notify		e to be met? authorization.)			Yes 🖌	•	No 🗌	Checked by:	KPG 8.08	-02
Special Hand	lling (if ap	olicable)						L		
15. Was client r	otified of all d	liscrepancies v	with this order	r?	Yes [No 🗌	NA 🗸]	
Perso	n Notified:	ļ		Date	e:		the same state of the same of			
By Wh	iom:	[Via:	🗌 eMail	Pho	one 🗌 Fax	In Person		
Regar	ding: Instructions:	[
								e be e D		
16. Additional re										
17. <u>Cooler Info</u> Cooler N	the second se	Condition	Seal Intact	Seal No	Seal Date		anad Du			
1	3.7	Good	Yes	Jean NU	Sear Date	SI	igned By			
2	4.5	Good	Yes							

Page 1 of 1

Received by OCD: 8/	/31/	/202	22.2:	12:-	45 P	- M				3							•								Pag		29 of 1	57
HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	505-345-3975 Fax 505-345-4107	Anal	↓ ()1()	S '*	0d	(1. ,201	04 01 { 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	-VO 103 103	58 \ 9M (AC	M) 8(M Hs b) F, 8 60 (V 70 (S tal Co	82 85 87 85 85													Remarks: Please ewail chase settle & Pogresources.	liam. Giersdort &	Murrey about. Bill to Chase Settly 600	sub-contracted data will be clearly notated on the analytical report.
	4901	Tel.		(0							08:H		X												larks: F	Have.	36	oility. Any
Turn-Around Time: Standard Rush S duy Project Name: Abb, RL P S the FF T	2	n C	1 ccuert	Project Manager: JT Murrey 📃			Lian Giersdorf	Et Yes DNo		ding CF): 3.5 40.2-37 (°C)	איז דכי בין גער איז דרי איז דרי	Type 2208419 ANY		002014 013		GOV OHO OIS		0	007 019-010	003.020-019	009 021-020	010 022-001	1	012 0× 0× 023	Via: Date Time	Via Court Date Time	3. VIA. CUCY DAILE INTE MAINE	wher accredited laboratories. This serves as notice of this possib
Turn-Around T Z Standard Project Name:	~	Project #:	1	² roject	Tor		Sampler:	On Ice:	# of Coc	Cooler 7	Container	Type and #	LY Y	-	_									M	Received by:	Received hv	Contract of the second of the	tracted to
	suite log	, NM 88210	22 Phone #: (505)377-4218	Temail or Fax#: Jt. Murrey @grd.com P	QA/QC Package:	Level 4 (Full Validation)	Az Compliance	Other	ype)			Time Matrix Sample Name	0804 1100 Sil BHAYA	IIIOS BHASA	1116 BHA64	1115 BHA7A	1200 BHB5	1205 BHB6			1400 BITCS		1/1410 B4C7	V 145 V BHC 8	1/0/01	Time: Relincuished hv:	2	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Received by OCD: 8/31/20.	22 2:1	2:45 PM			1	ГТ		-					1	Page	<u>i 30 oj</u>	in the second se
- ENV - YSI3 allenviron - Albuqu	rei. 202-542-5975 Fax 505-345-4107 Analysis Request	ыО⁺' 2O [⊄] SWIS CB, ²	5RO / DRG les/8082 als 33, NO ₂ , als (OA)	TPH:8015D(C 8081 Pesticio 8081 Pesticio PAHs by 831 RCRA 8 Meta RCRA 8 Meta 8250 (VOA) 8250 (VOA) 8250 (VOA) 10tal Coliform										Remarks: Please ewail chase settle @ togresources.com tom. larson @ gud.com; 12 constant out of and	eu laughin Egudica	Any sub-contracted data will be clearly notated on the analytical report
Turn-Around Time: Existend Rush 5 day Project Name: Project #:	112206/2	Project Manager: JT Murrey Tom Larson	Sampler: Lian Giersdorf B On Ice: Eryes DNO # of Conters: 3	Cooler Temp(including CF): ろ、ラ、セ、2 - 3,7 (°C) M Cooler Temp(including CF): ろ、ラ、セ、2 - 3,7 (°C) M Type and # Type Type	JJ 201 001 013 K	602 014	010 000 010	F10 200	ANT COLO B	5	000 021	1 1		Received by: Via: Date Time Rema	Via: Car Date Time	DIGLCC tracted to other accredited taboratories. This serves as notice of this poss
Client: GHD Client: GHD Mailing Address: 324 W. Na St. Su: 408	Phone #: (505)377-4218	email or Fax#: JT. Murrey しろんん、com 2010C Package:	Accreditation: a Az Compliance a NELAC b Other b EDD (Type) b	Time Matrix Sample Name	70:1	INTERPO		_	113) 54462 1513 540 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m 2 m		1505 SWCD1	N ISIO V SWCDZ		15 0800 2000 200		If necessary, samples submitted to Hall Environmental may be subcon

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August 19, 2022

JT MURREY GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE, NM 87110

RE: ABBY BFL STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 08/18/22 9:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



GHD SERVICES, INC. JT MURREY 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Fax To:

Received:	08/18/2022	Sampling Date:	08/17/2022
Reported:	08/19/2022	Sampling Type:	Soil
Project Name:	ABBY BFL STATE #1	Sampling Condition:	Cool & Intact
Project Number:	11220612	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - TATUM, NM		

Sample ID: SWC 1A (H223778-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2022	ND	1.98	99.1	2.00	4.22	
Toluene*	<0.050	0.050	08/18/2022	ND	1.97	98.5	2.00	3.32	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.89	94.6	2.00	3.83	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	5.86	97.6	6.00	3.75	
Total BTEX	<0.300	0.300	08/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/18/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2022	ND	228	114	200	1.52	
DRO >C10-C28*	<10.0	10.0	08/18/2022	ND	206	103	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	08/18/2022	ND					
Surrogate: 1-Chlorooctane	80.4	% 43-149)						
Surrogate: 1-Chlorooctadecane	94.2	% 42.5-16	1						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



GHD SERVICES, INC. JT MURREY 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Fax To:

Received:	08/18/2022	Sampling Date:	08/17/2022
Reported:	08/19/2022	Sampling Type:	Soil
Project Name:	ABBY BFL STATE #1	Sampling Condition:	Cool & Intact
Project Number:	11220612	Sample Received By:	Shalyn Rodriguez
Project Location:	EOG - TATUM, NM		

Sample ID: BHD 1A (H223778-02)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/18/2022	ND	1.98	99.1	2.00	4.22	
Toluene*	<0.050	0.050	08/18/2022	ND	1.97	98.5	2.00	3.32	
Ethylbenzene*	<0.050	0.050	08/18/2022	ND	1.89	94.6	2.00	3.83	
Total Xylenes*	<0.150	0.150	08/18/2022	ND	5.86	97.6	6.00	3.75	
Total BTEX	<0.300	0.300	08/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	08/18/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/18/2022	ND	228	114	200	1.52	
DRO >C10-C28*	20.4	10.0	08/18/2022	ND	206	103	200	4.04	
EXT DRO >C28-C36	<10.0	10.0	08/18/2022	ND					
Surrogate: 1-Chlorooctane	85.3	% 43-149)						
Surrogate: 1-Chlorooctadecane	102	% 42.5-16	1						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whose site to the services interruptors, loss of profits incurred by client, its subsidiaries, afflictes or successor arising out of or related to the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

DINAL radio radio BILL TO MALOF-CUSTODY AND ANALYSIS REPORT 2000 AND ANALYSIS Project Owner: COC 2006 FAX (575) 393-2476 PO.8: CHAIN-OF-CUSTODY AND ANALYSIS Project Owner: COC PO.8: CHAIN-OF-CUSTODY AND ANALYSIS Project Owner: COC Analysis Project Owner: Coc <t< th=""><th>Sampler - UPS - Bus - Other: FORM-006 R 3.3 07/16/2</th><th>Delivered By: (Circle One)</th><th>Relinquished By:</th><th>Reilinginging</th><th>service. In no event shall Cardinal be liable for it affiliates or successors arising out of or related to</th><th>PLEASE NOTE: Liability and Damages. Cardinal's analyses. All claims including those for negligence</th><th></th><th></th><th>\$ D BHD J</th><th>OILCOPL</th><th>411278</th><th>Lab I.D. Sa</th><th></th><th></th><th>Sampler Name:</th><th>The</th><th>Ahhu</th><th>1177</th><th>## (361)</th><th>Midland</th><th>st,</th><th>STY</th><th>Company Name: /C 4 D</th><th>101 East Ma</th><th>Labo</th><th>CAR</th></t<>	Sampler - UPS - Bus - Other: FORM-006 R 3.3 07/16/2	Delivered By: (Circle One)	Relinquished By:	Reilinginging	service. In no event shall Cardinal be liable for it affiliates or successors arising out of or related to	PLEASE NOTE: Liability and Damages. Cardinal's analyses. All claims including those for negligence			\$ D BHD J	OILCOPL	411278	Lab I.D. Sa			Sampler Name:	The	Ahhu	1177	## (361)	Midland	st,	STY	Company Name: /C 4 D	101 East Ma	Labo	CAR
ANALYSIS REQUE	t	Observed Temp. °C			ncidental or consequental damages, including without limitation, users the performance of services hereunder by Cardinal, regardless of w Date: Received Bu	al's liability and client's exclusive remedy for any claim arising whether nce and any other cause whatsoever shall be deemed waived unless r				#	CO GRO	AB OR NTAINI	ERS ATER		Fiersch A	NM	123	Project Owner:	Fax #:	State: TK Zip:	mos	k-Pu		arland, Hobbs, NM 88240 2326 FAX (575) 393-2476	ratories	DINAL
ANALYSIS REQUE	verbal changes. Please email change	CHECKED BY:	(deigner	hether such claim is based upon any of the above stated reasons	based in contract or tort, shall be limited to the amount paid by the made in writing and received by Cardinal within 30 days after com			(180	1 4180		DGE ER : D/BASE COOL		PRESERV.		Phone #:	NM Zip:	-		Attn:	Company: 606	P.O. #:				CH
	MC NO	Standard Bacteria (only) s Rush Scool Intact	by the of the of the	Results are emailed. Fiesse provide climin annicas. In ber griffin Geogresources.com EMARKS: Rill to Amber Griffin; email rosults	scrotherwise.	Incident for the explicable its subsidiaries.			XX	XX	BT	PH				had		300	2							AINLOF_CLISTODY AND ANALYSIS REC

Received by OCD: 8/31/2022 2:12:45 PM

Page 5 of 5

Page 135 of 157



August 24, 2022

JT MURREY GHD SERVICES, INC. 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE, NM 87110

RE: ABBY BFL STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 08/23/22 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



GHD SERVICES, INC. JT MURREY 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Fax To:

Received:	08/23/2022	Sampling Date:	08/22/2022
Reported:	08/24/2022	Sampling Type:	Soil
Project Name:	ABBY BFL STATE #1	Sampling Condition:	Cool & Intact
Project Number:	11220612	Sample Received By:	Tamara Oldaker
Project Location:	EOG - TATUM, NM		

Sample ID: SWAB 1A (H223856-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	2.65	
Toluene*	<0.050	0.050	08/23/2022	ND	1.96	98.0	2.00	2.97	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.93	96.4	2.00	3.70	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	5.96	99.3	6.00	3.90	
Total BTEX	<0.300	0.300	08/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	32.0	16.0	08/24/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	199	99.5	200	0.826	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	212	106	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					
Surrogate: 1-Chlorooctane	85.7	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	104	% 46.3-17	0						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



GHD SERVICES, INC. JT MURREY 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Fax To:

Received:	08/23/2022	Sampling Date:	08/22/2022
Reported:	08/24/2022	Sampling Type:	Soil
Project Name:	ABBY BFL STATE #1	Sampling Condition:	Cool & Intact
Project Number:	11220612	Sample Received By:	Tamara Oldaker
Project Location:	EOG - TATUM, NM		

Sample ID: SWAB 2A (H223856-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	2.65	
Toluene*	<0.050	0.050	08/23/2022	ND	1.96	98.0	2.00	2.97	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.93	96.4	2.00	3.70	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	5.96	99.3	6.00	3.90	
Total BTEX	<0.300	0.300	08/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/24/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	199	99.5	200	0.826	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	212	106	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					
Surrogate: 1-Chlorooctane	95.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	116 9	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



GHD SERVICES, INC. JT MURREY 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Fax To:

Received:	08/23/2022	Sampling Date:	08/23/2022
Reported:	08/24/2022	Sampling Type:	Soil
Project Name:	ABBY BFL STATE #1	Sampling Condition:	Cool & Intact
Project Number:	11220612	Sample Received By:	Tamara Oldaker
Project Location:	EOG - TATUM, NM		

Sample ID: SWD - 6 (H223856-03)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	2.65	
Toluene*	<0.050	0.050	08/23/2022	ND	1.96	98.0	2.00	2.97	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.93	96.4	2.00	3.70	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	5.96	99.3	6.00	3.90	
Total BTEX	<0.300	0.300	08/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	08/24/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	199	99.5	200	0.826	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	212	106	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					
Surrogate: 1-Chlorooctane	95.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	115 9	% 46.3-17	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



GHD SERVICES, INC. JT MURREY 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Fax To:

Received:	08/23/2022	Sampling Date:	08/23/2022
Reported:	08/24/2022	Sampling Type:	Soil
Project Name:	ABBY BFL STATE #1	Sampling Condition:	Cool & Intact
Project Number:	11220612	Sample Received By:	Tamara Oldaker
Project Location:	EOG - TATUM, NM		

Sample ID: SWC - 5 A (H223856-04)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/23/2022	ND	2.02	101	2.00	2.65	
Toluene*	<0.050	0.050	08/23/2022	ND	1.96	98.0	2.00	2.97	
Ethylbenzene*	<0.050	0.050	08/23/2022	ND	1.93	96.4	2.00	3.70	
Total Xylenes*	<0.150	0.150	08/23/2022	ND	5.96	99.3	6.00	3.90	
Total BTEX	<0.300	0.300	08/23/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	08/24/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	199	99.5	200	0.826	
DRO >C10-C28*	16.2	10.0	08/23/2022	ND	212	106	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					
Surrogate: 1-Chlorooctane	112 9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	135	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



GHD SERVICES, INC. JT MURREY 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Fax To:

Received:	08/23/2022	Sampling Date:	08/23/2022
Reported:	08/24/2022	Sampling Type:	Soil
Project Name:	ABBY BFL STATE #1	Sampling Condition:	Cool & Intact
Project Number:	11220612	Sample Received By:	Tamara Oldaker
Project Location:	EOG - TATUM, NM		

Sample ID: SWD - 7 (H223856-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2022	ND	2.02	101	2.00	2.65	
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	98.0	2.00	2.97	
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.93	96.4	2.00	3.70	
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.96	99.3	6.00	3.90	
Total BTEX	<0.300	0.300	08/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	08/24/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	199	99.5	200	0.826	
DRO >C10-C28*	<10.0	10.0	08/23/2022	ND	212	106	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					
Surrogate: 1-Chlorooctane	88.8	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	107	% 46.3-17	8						

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



GHD SERVICES, INC. JT MURREY 6121 INDIAN SCHOOL RD, NE STE. 200 ALBUQUERQUE NM, 87110 Fax To:

Received:	08/23/2022	Sampling Date:	08/23/2022
Reported:	08/24/2022	Sampling Type:	Soil
Project Name:	ABBY BFL STATE #1	Sampling Condition:	Cool & Intact
Project Number:	11220612	Sample Received By:	Tamara Oldaker
Project Location:	EOG - TATUM, NM		

Sample ID: BHA 7 B (H223856-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2022	ND	2.02	101	2.00	2.65	
Toluene*	<0.050	0.050	08/24/2022	ND	1.96	98.0	2.00	2.97	
Ethylbenzene*	<0.050	0.050	08/24/2022	ND	1.93	96.4	2.00	3.70	
Total Xylenes*	<0.150	0.150	08/24/2022	ND	5.96	99.3	6.00	3.90	
Total BTEX	<0.300	0.300	08/24/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/24/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/23/2022	ND	199	99.5	200	0.826	
DRO >C10-C28*	11.2	10.0	08/23/2022	ND	212	106	200	0.983	
EXT DRO >C28-C36	<10.0	10.0	08/23/2022	ND					
Surrogate: 1-Chlorooctane	79.6	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	97.9	% 46.3-17	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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CARDINAL CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Received by	OCD :	8/31/2022	2:12:45	PM

(57	24/6	BILL TO	ANALYSIS REQUEST
Company value. CHI	P.O. 1		
whileop	Com	Company: EOG	
Midland	Zip: 79703		30
10 92/32/2/2/2/2/ 1	Address:	ess: 104 Sth St.	
11220612	er: EOG City:	Artesia	
ame: Abby BLF St		State: NM Zip: 862(0	2
Project Location: Taten	Phone #:	ıe #:	10
~	Fax #:		
	MATRIX	PRESERV. SAMPLING	Ae
	RS	•	(
Lab I.D. Sample I.D.)RAB OR (CONTAINE ROUNDW/ ASTEWAT DIL LL LUDGE THER : CID/BASE:	THER :	BTE
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the explicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the explicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the explicable analyses. Including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substitutions, and the substitution of the explicable analyses.	liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be imited to the and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within fenda or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits is	hall be limited to the amount paid by the client for the d by Cardinal within 30 days after completion of the se, or loss of profits incurred by client, its subsidiaries.	e client for the sintion of the applicable Is subsidiaries,
affiliates or successors arising out of or related to the performance of services hereunder by Ca Relinquished By: Date: 0 & 23	by Cardinal, regardless of whether such claim is based		ılt: ıre em
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Sampler - UPS - Bus - Other: Corrected Temp.		To The	
Attachment C Sampling Notifications

Becky Haskell

From:	Amber Griffin <amber_griffin@eogresources.com></amber_griffin@eogresources.com>
Sent:	Tuesday, July 26, 2022 11:45 AM
То:	Becky Haskell; Liam Giersdorf
Subject:	FW: Abby BLF State 1 (nRM2030932103) Sampling Notification

Thank you, Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Monday, July 25, 2022 6:56 AM
To: emnrd-ocd-district1spills@state.nm.us; Naranjo, Mark <MNaranjo@slo.state.nm.us>; rmann@slo.state.nm.us
Cc: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>; Artesia Regulatory
<Artesia_Regulatory@eogresources.com>
Subject: Abby BLF State 1 (nRM2030932103) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Abby BLF State 1 O-10-9S-33E Lea County, NM nRM2030932103

Sampling will begin at 10:00 a.m. on Friday, July 29, 2022.

Thank you,

Tina Huerta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121 Email: <u>tina huerta@eogresources.com</u>



Becky Haskell

From:	Amber Griffin <amber_griffin@eogresources.com></amber_griffin@eogresources.com>
Sent:	Thursday, July 28, 2022 2:32 PM
То:	Becky Haskell; Liam Giersdorf
Subject:	FW: [EXTERNAL] Abby BLF State 1 (NRM2030932103) Sampling Notification

Thank you, Amber Griffin

From: Tina Huerta <Tina_Huerta@eogresources.com>
Sent: Thursday, July 28, 2022 11:41 AM
To: Artesia S&E Spill Remediation <Artesia_S&E_Spill_Remediation@eogresources.com>
Cc: Artesia Regulatory <Artesia_Regulatory@eogresources.com>
Subject: FW: [EXTERNAL] Abby BLF State 1 (NRM2030932103) Sampling Notification

FYI

From: Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Sent: Thursday, July 28, 2022 11:25 AM
To: Tina Huerta <<u>Tina_Huerta@eogresources.com</u>>
Cc: Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>; Harimon, Jocelyn, EMNRD
<<u>Jocelyn.Harimon@state.nm.us</u>>; Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>
Subject: RE: [EXTERNAL] Abby BLF State 1 (NRM2030932103) Sampling Notification

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Tina

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks, Jennifer Nobui

From: Tina Huerta <<u>Tina_Huerta@eogresources.com</u>>

Sent: Thursday, July 28, 2022 7:06 AM

To: Naranjo, Mark <<u>MNaranjo@slo.state.nm.us</u>>; <u>rmann@slo.state.nm.us</u>; Nobui, Jennifer, EMNRD <<u>Jennifer.Nobui@state.nm.us</u>>; Harimon, Jocelyn, EMNRD <<u>Jocelyn.Harimon@state.nm.us</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>; Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>; Cc: Artesia S&E Spill Remediation <<u>Artesia S&E Spill Remediation@eogresources.com</u>>; Artesia Regulatory <<u>Artesia_Regulatory@eogresources.com</u>>

Subject: [EXTERNAL] Abby BLF State 1 (NRM2030932103) Sampling Notification

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Abby BLF State 1 N-10-9S-33E Lea County, NM NRM2030932103

Sampling will begin at 10:00 a.m. on Monday, August 1, 2022 and continue through Friday, August 5, 2022.

Thank you,

Tina Huerta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121 Email: <u>tina huerta@eogresources.com</u>



Thank you, Amber Griffin

From: Tina Huerta <<u>Tina_Huerta@eogresources.com</u>>
Sent: Thursday, August 18, 2022 8:44 AM
To: emnrd-ocd-district1spills@state.nm.us; rmann@slo.state.nm.us; mnaranjo@slo.state.nm.us
Cc: Artesia S&E Spill Remediation <<u>Artesia_S&E_Spill_Remediation@eogresources.com</u>>; Artesia
Regulatory <<u>Artesia_Regulatory@eogresources.com</u>>
Subject: Abby BLF State 1 (NRM2030932103) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Abby BLF State 1 N-10-9S-33E Lea County, NM NRM2030932103

Sampling will begin at 10:00 a.m. on Monday, August 22, 2022 and continue through Friday, August 26, 2022.

Thank you,

Tina Huerta

Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121 Email: tina huerta@eogresources.com



Thank you, Amber Griffin

From: Tina Huerta <<u>Tina_Huerta@eogresources.com</u>>
Sent: Thursday, August 11, 2022 8:57 AM
To: emnrd-ocd-district1spills@state.nm.us; rmann@slo.state.nm.us; Naranjo, Mark
<<u>MNaranjo@slo.state.nm.us</u>>
Cc: Artesia S&E Spill Remediation <<u>Artesia_S&E_Spill_Remediation@eogresources.com</u>>; Artesia
Regulatory <<u>Artesia_Regulatory@eogresources.com</u>>
Subject: RE: Abby BLF State 1 (nRM2030932103) Sampling Notification

This sampling is Monday, August 15, 2022 and continue through Friday, August 19, 2022.

Sorry for any confusion.

Thank you.

From: Tina Huerta <<u>Tina_Huerta@eogresources.com</u>>
Sent: Thursday, August 11, 2022 7:52 AM
To: emnrd-ocd-district1spills@state.nm.us; rmann@slo.state.nm.us; Naranjo, Mark
<<u>MNaranjo@slo.state.nm.us</u>>
Cc: Artesia S&E Spill Remediation <<u>Artesia_S&E_Spill_Remediation@eogresources.com</u>>; Artesia
Regulatory <<u>Artesia_Regulatory@eogresources.com</u>>
Subject: Abby BLF State 1 (nRM2030932103) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Abby BLF State 1 N-10-9S-33E Lea County, NM nRM2030932103

Sampling will begin at 10:00 a.m. on Monday, August 15, 2022 and continue through Tuesday, August

19, 2022.

Thank you,

Tina Huerta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121 Email: <u>tina_huerta@eogresources.com</u>



Thank you, Amber Griffin

From: Tina Huerta <<u>Tina_Huerta@eogresources.com</u>>
Sent: Thursday, August 4, 2022 7:08 AM
To: emnrd-ocd-district1spills@state.nm.us; rmann@slo.state.nm.us; Naranjo, Mark
<<u>MNaranjo@slo.state.nm.us</u>>
Cc: Artesia S&E Spill Remediation <<u>Artesia_S&E_Spill_Remediation@eogresources.com</u>>; Artesia
Regulatory <<u>Artesia_Regulatory@eogresources.com</u>>
Subject: Abby BLF State 1 (nRM2030932103) Sampling Notification

Good Morning,

EOG Resources, Inc. respectfully submits notification of sampling to be conducted at the below location.

Abby BLF State 1 N-10-9S-33E Lea County, NM nRM2030932103

Sampling will begin at 10:00 a.m. on Monday, August 8, 2022 and continue through Friday, August 12, 2022.

Thank you,

Tina Hverta Regulatory Specialist Direct: 575.748.4168 Cell: 575.703.3121 Email: tina_huerta@eogresources.com



Site Name	Abby BLF State #1
Location	O-10-9S-33E; Lea County, NM
Incident ID	NRM2030932103
Source & Description of Activities	Excavation and Soil Sampling
Expected Duration for Activities	4 Weeks
Env Consultant	GHD
Contractor	BDS
C-138 Requested	Yes, Attached Below (Submitted)
Sampling Notification Required	Monday August 22 nd through 26 th at 1000 (08/22/22 through 08/26/22)
Core Rig Boring	No
Surface Owner	NMSLO

C-138 Abby BLF State #1 (Submitted)

Originating Site Name	Abby BLF State #1
Location	O-10-9S-33E; Lea County, NM
Source & Description	Impacted Soil - Crude Oil
Estimated Volume	2,900 Cubic Yards
Transporter	BDS
Name of Disposal Facility	Gandy Marley
Address Of Disposal Facility	US Highway 62 W, Carlsbad, NM

Site Name	Abby BLF State #1
Location	N-10-9S-33E; Lea County, NM
Incident ID	NRM2030932103
Source & Description of Activities	Excavation and Soil Sampling
Expected Duration for Activities	4 Weeks
Env Consultant	GHD
Contractor	BDS
C-138 Requested	Yes, Attached Below (Submitted)
	th th

	Monday August 15	through 19	at 1000 (08/15/22 through
Sampling Notification Required	<mark>08/19/22)</mark>		
Core Rig Boring	No		
Surface Owner	NMSLO		

C-138 Abby BLF State #1 (Submitted)

Originating Site Name	Abby BLF State #1
Location	N-10-9S-33E; Lea County, NM
Source & Description	Impacted Soil - Crude Oil
Estimated Volume	2,900 Cubic Yards
Transporter	BDS
Name of Disposal Facility	Gandy Marley
Address Of Disposal Facility	US Highway 62 W, Carlsbad, NM

Site Name	Abby BLF State #1
Location	O-10-9S-33E; Lea County, NM
Incident ID	NRM2030932103
Source & Description of Activities	Excavation and Soil Sampling
Expected Duration for Activities	4 Weeks
Env Consultant	GHD
Contractor	BDS
C-138 Requested	Yes, Attached Below (Submitted)
Sampling Notification Required	Monday August 8 th through 12 th at 1000 (08/08/22 through 08/12/22)
Core Rig Boring	No
Surface Owner	BLM

C-138 Abby BLF State #1 (Submitted)	
Originating Site Name	Abby BLF State #1
Location	O-10-9S-33E; Lea County, NM
Source & Description	Impacted Soil - Crude Oil
Estimated Volume	2,900 Cubic Yards
Transporter	BDS
Name of Disposal Facility	Gandy Marley
Address Of Disposal Facility	US Highway 62 W, Carlsbad, NM

Released to Imaging: 9/8/2022 11:18:02 AM

Attachment D Photographic Log





Site Photographs

EOG Abby BLF State #1 Release Site.

GHD | Report for EOG | 11220612



Site Photographs

EOG Abby BLF State #1 Release Site.

GHD | Report for EOG | 11220612



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

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

District III

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

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

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

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	139930
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	9/8/2022

Action 139930