District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	nAPP2110638995
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377	
Contact Name Chase Settle	Contact Telephone 575-748-1471	
Contact email Chase_Settle@eogresources.com		
Contact mailing address 104 S. 4th Street, Artesia, NM 88210		

Location of Release Source

Latitude 32.85828

Longitude -103.92643

(NAD 83 in decimal degrees to 5 decimal places)

Site Name Jackson B #17	Site Type Flow Line
Date Release Discovered 04/12/2021	API# (if applicable) 30-015-04039

Unit Letter	Section	Township	Range	County
М	1	17S	30E	Eddy

Surface Owner: State Federal Tribal Private (Name:

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) Unknown	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

Historical impacts discovered along the flow line during the well P&A process. Release volume and date are unknown.

Page 2 of 88

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
19.15.29.7(A) NMAC?	
🗌 Yes 🖌 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \checkmark The source of the release has been stopped.

 \checkmark The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

 \checkmark All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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.

Printed Name: Chase Settle

Signature: Chas Settle

Title:	Rep	Safety	&	Environmental Sr
--------	-----	--------	---	------------------

_{email:} Chase_Settle@eogresources.com

OCD Only

Received by:

Date: _____

Date: 04/16/2021

Telephone: 575-748-1471

Page 2 Oil Conserve

	Page 3 of 8
Incident ID	nAPP2110638995
District RP	
Facility ID	
Application ID	

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?	<u>>100</u> (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
- Data table of soil contaminant concentration data
- \checkmark Depth to water determination
- Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- Boring or excavation logs
 - Photographs including date and GIS information
- Z 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.

Received by OCD: 9/1/2021 10:26:40 AM		Page 4 of		
01111 C-141	State of New Mexico		Incident ID	nAPP2110638995
age 4	Oil Conservation Div	'1S10N	District RP	
			Facility ID	
			Application ID	
public health or the environme failed to adequately investigate addition, OCD acceptance of a and/or regulations. Printed Name: Chase S Signature: <u>Chase Settle</u> email: Chase_Settle@	and/or the certain reference of a C-141 report and remediate contamination that po C-141 report does not relieve the ope ettle Ø P B Ø B Ø B Ø B Ø B Ø B <tr< th=""><th>Ease normeanors and perform to by the OCD does not relieve the ocd does not relieve the orea threat to groundwater, surface of responsibility for compared to the order of the order of the ocd does not relieve the oc</th><th>ty & Environmer</th><th>nould their operations have on or the environment. In ederal, state, or local laws</th></tr<>	Ease normeanors and perform to by the OCD does not relieve the ocd does not relieve the orea threat to groundwater, surface of responsibility for compared to the order of the order of the ocd does not relieve the oc	ty & Environmer	nould their operations have on or the environment. In ederal, state, or local laws
OCD Only				
Received by:		Date:		
OCD Only Received by:		Date:		

Received by OCD: 9/1/2021 10:26:40 AM Form C-141 State of New Mexico

Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

	Page 5 of 8
Incident ID	nAPP2110638995
District RP	
Facility ID	
Application ID	

Remediation Plan

Detailed description of proposed remediation technique Scaled sitemap with GPS coordinates showing delineation points 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: Than Sittle Date: 08/31/2021 email: Chase_Settle@eogresources.com Telephone: 575-748-1471 **OCD Only** Received by: Date: Approved Approved with Attached Conditions of Approval Denied Deferral Approved Signature: Date:

Page 5

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



Our ref: 11228312

August 31, 2021

New Mexico Oil Conservation Division District 2 811 South First Street Artesia, New Mexico 88210

Re: Site Characterization and Remediation Work Plan Jackson B #17 Flowline Area #1 Release Site EOG Resources Inc. Incident ID: nAPP2110638995 M-01-17S-30E, Eddy County, New Mexico

To Whom It May Concern:

1. Introduction

GHD Services, Inc. (GHD), on behalf of EOG Resources (EOG), submits this Site Characterization and Remediation Work Plan to the New Mexico Oil Conservation Division (NMOCD) District 2 Office. This Report provides documentation of delineation, sampling, and analyses in the affected area at the EOG Jackson B #17 Flowline Area #1 Release Site (Site). The Site is located in Unit Letter M Section 01 of Township 17 South and Range 30 East in Eddy County, New Mexico. The GPS coordinates for the release site are 32.85828 N latitude and 103.92643 W longitude. The release occurred on land managed by the Bureau of Land Management (BLM). Figure 1 depicts the Site location. The EOG production facility and other site details are depicted on Figure 2.

2. Background Information

A C-141 initial report for this release was submitted to the NMOCD on April 16, 2021. The C-141 stated that no known volume or date could be assigned to this historical release. The potential release area was discovered during EOG well plugging and flowline removal associated with this location. Soils within the former flowline area appeared to be discolored and after discussions between field personnel and environmental staff – EOG made the decision to go ahead and file a C-141 for this suspect release location.

The Initial Form C-141, Site Assessment/Characterization and Remediation Plan portions of Form C-141 for Incident Number nAPP2110638995 are attached to the front of this report.

→ The Power of Commitment

3. Groundwater and Site Characterization

GHD characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, from New Mexico Administrative Code (NMAC) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12). The release falls under the jurisdiction of the NMOCD District 2 in Artesia, New Mexico.

On May 18, 2021, Talon LPE (Talon) installed a temporary well, Jackson B #59 Temp Well, at the following GPS Coordinates, 32.85697 N latitude and 103.92703 W longitude to approximately 125 feet below ground surface (bgs.) which is located approximately 0.5 miles from the Site. The Jackson B #59 Temp Well was left open for 72 hours and a water level meter was utilized to determine the presence or absence of groundwater. No groundwater was detected, and the temporary well was plugged and abandoned. Depth to groundwater for this Site is greater than one hundred (100) feet bgs. No other receptors (karst potential areas, water wells, playas, wetlands, waterways, lakebeds or ordinance boundaries) were located within each specific boundaries or distance from the Site. According to the Site characterization evaluation and 19.15.29.12.C(4)(a)(i) the Site is located within an area with depth to groundwater greater than one hundred (100) feet in Table 1 in NMAC 19.15.29.12. The Site characterization documentation (Talon's Temporary Well Log, Karst Potential, FEMA, Points of Diversion and Wetlands maps) are provided in Attachment A. The soil and closure criteria are listed below:

General Site Characterization and Groundwater:

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

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

Constituent	Limits
Chloride	20,000 mg/kg
TPH (GRO+DRO+MRO)	2,500 mg/kg
TPH (GRO+DRO)	1,000 mg/kg
Benzene	10mg/kg
BTEX	50 mg/kg

4. Initial Soil Delineation Assessment Summary and Findings

On April 20, 2021, an EOG representative, installed three (3) hand borings, A1-1, A1-2, and A1-3, within the suspected impacted area. Soil samples were collected at depths ranging from one (1) to ten (10) feet bgs. All 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 BTEX concentrations above 50 mg/kg in soil samples A1-1 6' and A1-1 8' and TPH concentrations above 2,500 mg/kg in soil samples A1-1 Surface through A1-8', A1-2 Surface, A1-2 3', and A1-3 2'. None of the samples exhibited chloride concentrations above Table 1 closure criteria.

On May 25, 2021, GHD Services Inc. (GHD) and EOG's contractor BDS Enterprises, LLC (BDS), on behalf of EOG, installed test pits in the areas of A1-1 through A1-3 to obtain deeper samples and assess the horizontal extent of impacts in seven additional test pits, TP-1 through TP-7 within and around the suspected



impacted area. The test pit locations were excavated to depths ranging from surface to approximately twenty (20) feet bgs. Soil samples were collected from varying depths of the test pits and field screened for chloride and hydrocarbons. Select 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 none of the samples exhibited benzene, BTEX, TPH or chloride concentrations above Table 1 closure criteria.

On July 22, 2021, GHD and Talon returned to the site to install a soil boring near A1-1 to fully delineate the release to less than 600 mg/kg for chloride concentrations. The soil boring was installed to a depth of thirty-five (35) feet bgs. Samples were collected in approximately five (5) foot intervals beginning at twent-five (25) feet bgs. Soil 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 none of the samples exhibited benzene, BTEX, TPH or chloride concentrations above Table 1 closure criteria. The A1-1 Soil Boring Log is provided as Attachment B.

Figure 2, Site Assessment: Soil Analytical Results Map, depicts the locations of the initial delineation samples and analytical concentrations. Analytical results are provided in Table 1, on Figure 2, and in the Laboratory Analytical Reports provided in Attachment C.

5. nAPP2110638995 Proposed Work Plan

GHD, on behalf of EOG, proposes to excavate the A1-1 area eight (8) to ten (10) feet bgs or until the Total TPH concentrations are less than 2,500 mg/kg. Areas A1-2 and A1-3 will be excavated to a depth where Total TPH concentrations are less than 2,500 mg/kg or four (4) feet bgs. Soils containing Total TPH concentrations over 100 mg/kg and chloride concentrations over 600 mg/kg within the top four feet of the impacted area will be excavated as well.

Composite confirmation samples will be collected from the sidewalls of the excavation from areas representing area no larger than two hundred (200) square feet. Discrete soil samples will be collected from the sidewalls if any staining is observed. No confirmation samples will be collected from the bottom of the excavation as the site is already vertically delineated. All confirmation samples will be taken to a certified laboratory and analyzed for BTEX by EPA Method 8021B, TPH by Method 8015B Modified, and chloride by EPA Method 300.

Excavated soils will be transported to a NMOCD approved disposal facility for disposal. The anticipated volume of soil to be disposed of is approximately 335 cubic yards. The excavation will be backfilled with non-impacted soil transported to the site. The remediation will be performed within 90 days after the work plan has been approved. A closure report will be prepared to document remediation activities and submitted to the NMOCD when remediation activities have been completed.

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

→ The Power of Commitment

Received by OCD: 9/1/2021 10:26:40 AM

Sincerely,

GHD

Rebecca Haskell

Becky Haskell Senior Project Manager

BH/tl/1

Thomas Clayon

Thomas C. Larson, M.S. Midland Operation Manager

Encl. Figure 1 – Site Location Map
 Figure 2 – Site Assessment Soil Analytical Results Map
 Table 1 – Summary of Soil Analytical Data
 Attachment A – Site Characterization Documentation
 Attachment B – A1-1 Soil Boring Log
 Attachment C – Laboratory Analytical Reports and Chain-of-Custody Documentation

cc: Chase Settle



Received by OCD: 9/1/2021 10:26:40 AM

Figures

•



SITE LOCATION MAP

FIGURE 1

Filename: VoldnetlobdUSMdlendProjecte/562112283121Dibital_Design/ACAD/FiguresiRPT001/11228312-GHD-0000-RPT-EN-0101_DL-001.dwg
Released 100-11 magrings:1111/2022 2:52:24 PM

Data Source: USGS 7.5 Minute Quad "Loco Hills and Henshaw Tank, New Mexico" Lat/Long: 32.858298° North, 103.926368° West

Received by OCD: 9/1/2021 10:26:40 AM

中國語文 法行为 化 建金属的	A1-3			1. J. S	the day	15-3
DATE 04/20/2021 DEPTH 2'	05/25/2021 6' 8' 10'	TP-3 05/25/2021 DEPTH SURFACE	2'	二日 小田 二	and and the	and the second
BENZENE <0.025 BTEX <0.10	<pre><0.024 <0.025 <0.024 <0.097 <0.10 <0.098</pre>	BENZENE <0.024 BTEX <0.096	<0.024 <0.096	ALL CAL	APR -	
TPH 6,200	736.3 <46 <45	TPH <50	<44	3 1 1 1 1	A	4. 2. 2.1
CHLORIDE 730	1,500 630 400	CHLORIDE <59	<59	The states	and a sugar	a part
	TP-2 05/25/2021	TP-4 05	/25/2021	the second	the pair show	- Section
DEP BENZI	SURFACE 2' ENE <0.025	DEPTH SURFA	CE 2' 4 <0.025	"月二日"	als been	That is
BTE	X <0.099 <0.097	BTEX <0.09	7 <0.099		42 2 2 3 3	1-53
CHLOF	RIDE <60 <60	CHLORIDE <60	<60	14 14 14 14 14 14 14 14 14 14 14 14 14 1	A Charles	1 3 3 4 Y
TD 4 05/25/001	1 7 5	TP-3	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	41.0	a hart at it	44125
DEPTH SURFACE 2'			DATE 04	/20/2021 (05/25/2021	12
BENZENE <0.025 <0.024 BTEX <0.10 <0.095	a. 11 2 38 4	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DEPTH 1' BENZENE <0.025	3' 8'	14'	Nº
	A Welson	A1-3 TP-4	BTEX <0.099	1.451 <0.097	7 <0.098	14 . R.
CHLURIDE COU C39			CHLORIDE 2,600	<u>3,400</u> <u>810</u>	40	Coto"
	E TP-1	1 1 200	四一一的资源的让		Stat Grad	3
	A Party	and the second s	A. T.C.A.C.	the young	The Real Press	20.40
and the second s	A1-	B Asserts By god	8 4 5 4	137: 西西平	the state to	20.000
The second	D A1-1	TP-5		and the second second	22年 3月12日	a a starter
we we a first the state of the second states and the	TP-7	Arry the second of	A COM	and The Art	Real Altres	Actor
TP-7 05/25/2021	1 Sector	TP-6	TP-5 05/2	25/2021	"Handal"	1357
DEPTH SURFACE Z BENZENE <0.024		2-6-1- 2 3-5 - 5- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-	BENZENE <0.024	2' < 0.024		Arasit
BTEX <0.098 <0.099 TPH <49	OR		BTEX <0.096	<0.097	A CALLER	15-1
CHLORIDE <60 <59	oad a state		CHLORIDE <60	<60	Att as the second	+ 12 ×
	220	TD 6 05/25/2021	AN AN AN	新花子L-	and good a	to Lawy
The second and the manual second s		DEPTH SURFACE 2	2'	Sal Hand L	and the state	いう意
LEGEND	2000 20	BENZENE <0.024 <0. BTEX <0.097 <0.	025		四十二 新月	in the set
INFERRED IMPACTED AREA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TPH <49 < CLUL ODIDE <00	48	14 19 19 19 19 19 19 19 19 19 19 19 19 19	A Starts	1
INITIAL ASSESSMENT SAMPLE LOCATION	2 2.458		00	· Participation	W. Diene	18 20
TEST PIT LOCATION	1		A1-1		Lens of	
DEPTH DEPTH OF SAMPLE (FT)	DATE DEPTH 1' 2'	4' 6'	8' 10'	16' 20'	25' 30'	35'
XYLENES CONCENTRATION (MG/KG)	BENZENE <0.025 <0.0	5 <0.025 <0.025	<0.025 <0.025 <	0.12 <0.049	<0.025 <0.024	<0.025
TPH TOTAL PETROLEUM HYDROCARBONS	DTEA S0.10 <0.0 TPH 17,725 6,30	Solution	16,000 820 1	066 100	24 <47	<49
CONCENTRATION (MG/KG)	CHLORIDE 170 250	610 1,300	1,300 1,900 1	400 4,400	180 84	<60
N			EOG RESOU	RCES	Project No. 112	228312
NOTES:			EDDY COUNTY, NI	EW MEXICO	Date Au	gust 2021
0 20 40 ft 1. RESULTS IN MILLIGR/	AMS PER KILOGRAM (MG/KG).		JAUKSUN B #17 FLU	VLINE AKEA #1		
Coordinate System: 2. SEE TABLE 1 FOR FU!	L ANALYTICAL RESULTS/DETAILS.			CMENT.		
NAD 1983 (2011) StatePlane- New Movies East (1) E East)	LLS INDICATE EXCEEDANCE.		SILE ASSES	SMENT: DECHITS MAD	FI	CURES
INGW INICALLO LASE (US FEEL)		I I	SOIL ANALTHUAL	LOULIS MAP		GUNE 2
ame: \\ghdnet\\ghdNUS\\Midland\Projects\562\11228312\Digital Design\ACAD\Figures\RPT001\11228312-GHD-0000-RPT-FN-0101_DL-0	01.dwa			Data Source: Image	© 2021 Google - Imagery Date	November 2 2017

Received by OCD: 9/1/2021 10:26:40 AM

Tables

•

Table 1Summary of Soil Analytical DataJackson B #17 Flowline Area 1EOG ResourcesEddy County, New Mexico

										ТРН		
	Sample	Depth	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO (C6-C10)	DRO (C10-C28)	MRO (C28-C35)	Total GRO/DRO/MRO	Chloride
Sample ID	Date	(feet bgs)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
					Table I C	Closure Criteria	for Soils <50 fe	et Depth to Gro	undwater 19.15	29 NMAC		
			10 mg/Kg				50 mg/Kg	1,000	mg/Kg		2,500 mg/Kg	20,000 mg/Kg
				•	Initial Ass	sessment Samp	les	•		•	·	•
A1-1 Sur	4/20/21	1'	<0.025	<0.050	<0.050	<0.10	<0.10	25	8,400	9,300	17,725	170
A1-1 2'	4/20/21	2'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	2,700	3,600	6,300	250
A1-1 4'	4/20/21	4'	<0.025	<0.050	<0.050	<0.099	<0.099	180	4,500	2,500	7,180	610
A1-1 6'	4/20/21	6'	<0.025	0.16	2.3	67	69.46	1,200	7,600	3,400	12,200	1,300
A1-1 8'	4/20/21	8'	<0.025	0.16	1.2	72	73.36	1,400	9,900	4,700	16,000	1,300
A1-1 10'	4/20/21	10'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	300	520	820	1,900
A1-1 16'	5/25/21	16'	<0.12	<0.24	<0.24	<0.49	<0.49	66	590	410	1,066	1,400
A1-1 20'	5/25/21	20'	<0.049	<0.098	<0.098	<0.020	<0.020	<9.8	100	<50	100	4,400
A1-1 25'	7/22/21	25'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	24	<49	24	180
A1-1 30'	7/22/21	30'	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.4	<47	<47	84
A1-1 35'	7/22/21	35'	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.8	<49	<49	<60
A1-2 Sur	4/20/21	1'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	9,500	7,600	17,100	2,600
A1-2 3'	4/20/21	3'	<0.025	<0.049	0.051	1.4	1.451	59	2,300	1,300	3,659	3,400
A1-2 8'	5/25/21	8'	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	55	<49	55	810
A1-2 14'	5/25/21	14'	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	40	<48	40	460
A1-3 2'	4/20/21	2'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	3,000	3,200	6,200	730
A1-3 6'	5/25/21	6'	<0.024	<0.049	<0.049	<0.097	<0.097	6.3	340	390	736.3	1,500
A1-3 8'	5/25/21	8'	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.2	<46	<46	630
A1-3 10'	5/25/21	10'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.0	<45	<45	400
TP1-S	5/25/21	Surface	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	< 8.8	<44	<44	<60
TP1-2	5/25/21	2'	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<8.8	<44	<44	<59
TP2-S	5/25/21	Surface	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	<60
TP2-2	5/25/21	2'	< 0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<8.9	<45	<45	<60
TP3-S	5/25/21	Surface	<0.024	<0.048	<0.048	<0.096	<0.096	<4.9	<9.9	<50	<50	<59
TP3-2	5/25/21	2'	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<8.8	<44	<44	<59
TP4-S	5/25/21	Surface	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<10	<50	<50	<60
TP4-2	5/25/21	2'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<47	<47	<60
TP5-S	5/25/21	Surface	<0.024	<0.049	<0.049	<0.096	<0.096	<4.8	<9.7	<48	<48	<60
TP5-2	5/25/21	2'	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<50	<50	<60
TP6-S	5/25/21	Surface	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.9	<49	<49	<60
TP6-2	5/25/21	2'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.6	<48	<48	<60

Received by OCD: 9/1/2021 10:26:40 AM

Table 1 Summary of Soil Analytical Data Jackson B #17 Flowline Area 1 EOG Resources Eddy County, New Mexico												
										ТРН		
			Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	GRO	DRO	MRO	Total	Chloride
0	Sample	Depth						(C6-C10)	(C10-C28)	(C28-C35)	GRO/DRO/MRO	
Sample ID	Date	(feet bgs)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
					Table I C	losure Criteria	for Soils <50 fe	et Depth to Gro	undwater 19.15.	29 NMAC		
			10 mg/Kg				50 mg/Kg	1,000	mg/Kg		2,500 mg/Kg	20,000 mg/Kg
TP7-S	5/25/21	Surface	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<49	<60
TP7-2	5/25/21	2'	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.8	<49	<49	<59

Notes:

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

4 BTEX analyses by EPA Method SW 8021B.

B-BH 2 Sample Point Excavated 5. TPH analyses by EPA Method SW 8015 Mod.

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

7. Yellow shaded cells indicate analytical samples that exceed the NMOC 19.15.29.12 Table 1

Closure Criteria for the site.

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

Attachment A Site Characterization Documentation





Received by OCD: 9/1/2021 10:26:40 AM

BORING LOG

Project No.: 700438.238.01

Site Name: Jackson B #59

Location: Eddy County, New Mexico

Date: 5/18/2021

TA! C

Boring Number: B-1

Weather: Clear, Temp.: 75°F

Logger: D. Adkins

Field Instrument: NA

Latitude: 32.85697 N

Longitude: -103.92703 W

Driller: D. Londagin

Rig Type: Reich Drill

Bit Size: 5-7/8"

Drilling Method: Air Rotary

Sample Retrieval Method: Drill Cuttings

Time	Lab Sample Collected	Sample Interval (ft)	Sample Recovery (ft)	SOSU	Composition (%)	Sample Material/Comments Include composition, color, grain size, moisture, hardness, plasticity, density	Hydrocarbon Odor	(mqq) OI9
		0-30'				Red/brown fine Sand (SP)	<u>None</u> Slight Mod. Strong	
		30-40'				Red/brown fine Sand (SP) with varying amounts of silt and caliche	<u>None</u> Slight Mod. Strong	
		40-80'				Dry, dark red/brown sandy Silts (SM)	<u>None</u> Slight Mod. Strong	
		80-125'				Red/brown fine Sand (SP)	<u>None</u> Slight Mod. Strong	
						TD 125′	None Slight Mod. Strong	
							None Slight Mod. Strong	
							None Slight Mod. Strong	
							None Slight Mod. Strong	
							None Slight Mod. Strong	
							None Slight Mod. Strong	
							None Slight Mod. Strong	
							None Slight Mod. Strong	
Surfac Notes	ce Eleva : Grour	ition: ndwater N	ot Encour	ntereo	d @ 125' BGS	S – 72 hr. Logger Initials:	DJA	

Page _____ of _____

	e				Ę	Sample Material/Comments	Ę	
e	mple	ple val	ple /ery)	s	sitio)	plasticity, density	arbo or	(mq
Tim	o Sa ollec	am) nter (ft)	am) ecov	nsc	%) odu		Ode	d) D
	Lat Cc	<i>6 =</i>	Re S		Con		Hyd	ЫІ
							None	
							Slight	
							Mod.	
							Strong None	
							Slight	
							Mod.	
							Strong	
							Slight	
							Mod.	
							Strong	
							None Slight	
							Mod.	
							Strong	
							None	
							Slight Mod	
							Strong	
							None	
							Slight	
							Mod. Strong	
							None	
							Slight	
							Mod.	
		-					Strong None	
							Slight	
							Mod.	
							Strong	
							Slight	
							Mod.	
							Strong	
							Slight	
							Mod.	
							Strong	
							None	
							Mod.	
							Strong	
							None	
							Slight Mod	
							Strong	
							None	
							Slight	
							Strona	
							None	
							Slight	
							Mod.	
Notes							Suong	

The borehole was advanced to 125' below ground surface (bgs). A 2-inch diameter temporary well constructed of schedule 40 PVC thread coupled to 10-feet of machine slotted well screen was installed in the open borehole. 72-hours after installation, a Solinest water level meter was utilized to determine the presence or absence of groundwater. The temporary well casing was subsequently removed and the bore hole backfilled with hole plug (bentonite chips) and hydrated.

Page _____ of _____



OSE PUBLIC PRINT



8/19/2021, 4:36:15 PM **GIS WATERS PODs**

New Mexico State Trust Lands

• Pending

Both Estates OSE District Boundary SiteBoundaries



Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar



U.S. Fish and Wildlife Service

National Wetlands Inventory



August 26, 2021

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

Lake Other Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Wetlands Inventory (NWI) This page was produced by the NWI mapper

Received by OCD: 9/1/2021 10:26:40 AM National Flood Hazard Layer FIRMette

103°55'54"W 32°51'45"N



Legend

Page 25 of 88

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT Without Base Flood Elevation (BFE) Zone A. V. A9 With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS **Regulatory Floodway** 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X Future Conditions 1% Annual Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF Area with Flood Risk due to Levee Zone D FLOOD HAZARD NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - - Channel, Culvert, or Storm Sewer GENERAL STRUCTURES LIIIII Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation AREA OF MINIMAL FLOOD HAZARD Eddy County **Coastal Transect** Base Flood Elevation Line (BFE) Zdex 350120 Limit of Study Jurisdiction Boundary **Coastal Transect Baseline** OTHER **Profile Baseline** 35015C0425D FEATURES Hydrographic Feature eff. 6/4/2010 **Digital Data Available** No Digital Data Available MAP PANELS Unmapped The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location. This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/19/2021 at 6:39 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time. This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for 103°55'16"W 32°51'15"N Feet unmapped and unmodernized areas cannot be used for

Releasea to Imaging: 1/21/2022 292:24 PM 1,500

1:6.000 2.000

regulatory purposes.

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

Attachment B Soil Boring Log



STRATIGRAPHIC LOG (OVERBURDEN)

Page 1 of 1

PROJECT NAME: EOG/Jackson B #17 Flowline Area #1 PROJECT NUMBER: 11228312 CLIENT: EOG Resources. INC. LOCATION: M-1-17S-30E; 32.858274, -103.926467 HOLE DESIGNATION: A1-1 DATE COMPLETED: 22 July 2021 DRILLING METHOD: Air Rotary FIELD PERSONNEL: Lee M./Zach C.

It BCS Difference	DEPTH	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH			SAMF	ΥLΕ	
Start strat log @ 201t Start strat log @ 201t<	ft BGS		m BGS	BER	RVAL	(%)	cu	0
Start start log @ 20h - - -	26/7/21			MUM	NTEF	REC	mS/	Na
-5 -5 -10 -5 -10 -7 -11 -7 -20 SAND, fine/medium, red and brown, dry -25 CLAYEY SAND, red and brown, callche interbedded throughout, dry -30 SAND, fine/medium, red and brown, dry -35 END OF BOREHOLE @ 35.00ft BGS -40 -66 -66 -70 -75 -76 -77 -77 -77 -77 -77 -77 -77 -77	ate: 2	Start strat log @ 20ft			_			
5 20.0 30.0 30.0 30.0 10.0 80.0 10.0 80.0 10.0 80.0 10.0 80.0 10.0 80.0 10.0 80.0 10.0 80.0 10.0 80.0 10.0 80.0 Norest -20 SAND, fine/medium, red and brown, caliche interbedded throughout, dry 20.00 33.0 100.0 80.0 Norest -30 SAND, fine/medium, red and brown, dry 30.00 33.0 100.0 80.0 Nor Benedium, red and brown, dry 30.0 33.0 100.0 80.0 Nor Benedium, red and brown, dry 30.0 33.0 100.0 80.0 Nor Benedium, red and brown, dry 30.0 33.0 100.0 80.0 Nor Benedium, red and brown, dry 30.0 33.0 100.0 80.0 Nor Benedium, red and brown, dry 30.0 33.0 100.0 80.0 Nor Benedium, red and brown, dry 30.0 100.0 80.0 Nor Benedium, red and brown, dry 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 100.0 1								
10 SAND, fine/medium, red and brown, dry 30.00 30.00 100 80 Men Detect 20 SAND, fine/medium, red and brown, caliche interbedded throughout, dry 30.00 30.00 30.00 30.00 100 80 Men Detect 30 SAND, fine/medium, red and brown, dry 30.00 30.00 30.00 30.00 100 80 Not Detect 35 END OF BOREHOLE @ 35.001 BGS 35.00 100 80 Not Detect 40 -45 -60 -65 -60 -66 -70 -75 -75 -76 -76 -77 -75 -76 -77 -75 -77 -75 -77 -75 -77 -75 -77 -75 -77 -75 -77 -75 -77 -75 -77<	- 5 							
15 20 SAND, fine/medium, red and brown, dry 20,00 30,00 100 60 Non Detect 22 CLAYEY SAND, red and brown, caliche interbedded throughout, dry 20,00 30,00 30,00 30,00 100 60 Non Detect 30 SAND, fine/medium, red and brown, dry 30,00 30,00 30,00 30,00 100 60 Non Detect 33 END OF BOREHOLE @ 35.00t BGS 35,00 100 60 Non Detect -40 -45 50,00 35,00 100 60 Non Detect -560 -56 -56 -56 -56 -56 -56 -56 -56 -70 -75 -60 -65 -70 -75 -								
15 20.00 SAND, fine/medium, red and brown, dry 20.00 25.00 30.00	≥ ₽							
20 SAND, fine/medium, red and brown, dry 2000	80 20 20 20 20 20 20 20 20 20 20 20 20 20							
20 SAND, fine/medium, red and brown, dry 20,00 0,07 0,07 100 80 Ren Detect -30 SAND, fine/medium, red and brown, caliche interbedded throughout, dry 20,00 0,07								
25 CLAYEY SAND, red and brown, caliche interbedded throughout, dry 25.00 35.00 100 80 Non Detect 30 SAND, fine/medium, red and brown, dry 30.00 38.00 100 80 Non Detect 34 END OF BOREHOLE @ 35.00ft BGS 35.00 100 80 Non Detect 40 44.5 50 55 60 66 <td< td=""><td>20</td><td>SAND, fine/medium, red and brown, dry</td><td>20.00</td><td></td><td></td><td></td><td></td><td></td></td<>	20	SAND, fine/medium, red and brown, dry	20.00					
25 CLAYEY SAND, red and brown, caliche interbedded throughout, dry 25.00 30.0 30.0 100 120 Kon Detect 30 SAND, fine/medium, red and brown, dry 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 30.00 100 120 Kon Detect 40 A4.0 END OF BOREHOLE @ 35.00ft BGS 35.00 100 10 80 Kon Detect 44.0 Final Additional Strategy and the strategy				20-25'		100	80	Non Detect
30 SAND, fine/medium, red and brown, dry 30.00 30.33 100 120 Ken Detect 35 END OF BOREHOLE @ 35.00R BGS 30.00 30.33 100 100 80 Ken Detect 40 -45 -50 -55 -60 -66 -66 -65 -70 -75 -70 -75 -70 -75 -70 -75 -70 -75 -70 -75 -75 -76 -76 -76 -76 -76 -76 -76 -76 -76 -76 -77 -75 -76 -76 -76 -76 -77 -75 -76	요 - 25	CLAYEY SAND, red and brown, caliche interbedded throughout, dry	25.00					
30 SAND, fine/medium, red and brown, dry 30.00 30.00 30.00 100 80 Non Detect -35 END OF BOREHOLE @ 35.00t BGS 35.00 35.00 100 80 Non Detect -40 -55 -55 -55 -55 -60 -65 -70 -75 -75 -75 -75 -75 -76 -76 -76 NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE CHEMICAL ANALYSIS - -	228312			25-30'		100	120	Non Detect
35 END OF BOREHOLE @ 35.001 BGS 40 55 -45 -56 -60 -65 -70 -75 NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE CHEMICAL ANALYSIS	≌ — 30 ≅ –	SAND, fine/medium, red and brown, dry	30.00			100		
- 40 - 40 - 45 - 50 - 55 - 60 - 65 - 70 - 70 - 75 - 10	∐ – 21– 25–		35.00	30-35		100	00	NON Detect
40 -45 -45 -50 -50 -55 -60 -65 -65 -70 75 -75 NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE CHEMICAL ANALYSIS -		END OF BOREHOLE @ 35.00ft BGS	00.00					
-45 -50 -55 -66 -70 -75 NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE CHEMICAL ANALYSIS	49 si - 40							
-45 -50 -55 -60 -65 -70 -75 MOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE CHEMICAL ANALYSIS	12 100							
50 55 60 65 70 75 NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE CHEMICAL ANALYSIS	- 45							
50 55 60 65 70 75 MOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE CHEMICAL ANALYSIS	0GS/1							
60 65 70 NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE CHEMICAL ANALYSIS	50							
55 60 65 70 75 NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE CHEMICAL ANALYSIS								
65 70 75 NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE CHEMICAL ANALYSIS	2 - 55 - 55 							
65 70 75 NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE CHEMICAL ANALYSIS								
65 70 75 NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE CHEMICAL ANALYSIS	11228							
70 75 NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE CHEMICAL ANALYSIS	- 							
70 75 NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE CHEMICAL ANALYSIS								
75 NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE CHEMICAL ANALYSIS O	Nd - 70							
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE CHEMICAL ANALYSIS								
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE CHEMICAL ANALYSIS								
NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE CHEMICAL ANALYSIS	ETIGH							
CHEMICAL ANALYSIS	GHDN	NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION T.	ABLE					
	File: /	CHEMICAL ANALYSIS						

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



April 29, 2021

Chase Settle EOG 105 South Fourth Street Artesia, NM 88210 TEL: FAX Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

OrderNo.: 2104970

RE: Jackson B 17

Dear Chase Settle:

Hall Environmental Analysis Laboratory received 9 sample(s) on 4/22/2021 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 2104970

Date Reported: 4/29/2021

-								
CLIENT:	EOG		Cl	ient Sa	ample II	D: A1	-1 Sur	
Project:	Jackson B 17		(Collect	ion Dat	e: 4/2	20/2021 2:54:00 PM	
Lab ID:	2104970-001	Matrix: SOIL		Recei	ved Dat	e: 4/2	22/2021 7:55:00 AM	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS						Analyst	: VP
Chloride		170	60		mg/Kg	20	4/27/2021 1:07:56 AM	59643
EPA MET	THOD 8015M/D: DIESEL RA	NGE ORGANICS					Analyst	: JME
Diesel R	ange Organics (DRO)	8400	480		mg/Kg	50	4/23/2021 1:09:27 PM	59581
Motor Oi	I Range Organics (MRO)	9300	2400		mg/Kg	50	4/23/2021 1:09:27 PM	59581
Surr: I	DNOP	0	70-130	S	%Rec	50	4/23/2021 1:09:27 PM	59581
EPA MET	THOD 8015D: GASOLINE R	ANGE					Analyst	ССМ
Gasoline	e Range Organics (GRO)	25	5.0		mg/Kg	1	4/24/2021 7:28:00 PM	59578
Surr: I	BFB	175	70-130	S	%Rec	1	4/24/2021 7:28:00 PM	59578
EPA MET	THOD 8021B: VOLATILES						Analyst	CCM
Benzene)	ND	0.025		mg/Kg	1	4/24/2021 7:28:00 PM	59578
Toluene		ND	0.050		mg/Kg	1	4/24/2021 7:28:00 PM	59578
Ethylben	izene	ND	0.050		mg/Kg	1	4/24/2021 7:28:00 PM	59578
Xylenes,	Total	ND	0.10		mg/Kg	1	4/24/2021 7:28:00 PM	59578
Surr: 4	4-Bromofluorobenzene	109	70-130		%Rec	1	4/24/2021 7:28:00 PM	59578

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 S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 13

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104970

Date Reported: 4/29/2021

CLIENT:	EOG		Cl	ient Sa	ample II	D: A1	1-1 2'	
Project:	Jackson B 17		(Collect	tion Dat	e: 4/2	20/2021 2:56:00 PM	
Lab ID:	2104970-002	Matrix: SOIL		Recei	ved Dat	e: 4/2	22/2021 7:55:00 AM	
Analyses	5	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS						Analyst	VP
Chloride		250	60		mg/Kg	20	4/27/2021 1:20:21 AM	59643
EPA MET	THOD 8015M/D: DIESEL F	RANGE ORGANICS					Analyst	mb
Diesel R	ange Organics (DRO)	2700	470		mg/Kg	50	4/25/2021 11:09:11 AM	59581
Motor Oi	il Range Organics (MRO)	3600	2400		mg/Kg	50	4/25/2021 11:09:11 AM	59581
Surr: I	DNOP	0	70-130	S	%Rec	50	4/25/2021 11:09:11 AM	59581
EPA MET	THOD 8015D: GASOLINE	RANGE					Analyst	CCM
Gasoline	e Range Organics (GRO)	ND	5.0		mg/Kg	1	4/24/2021 7:47:00 PM	59578
Surr: I	BFB	122	70-130		%Rec	1	4/24/2021 7:47:00 PM	59578
EPA MET	THOD 8021B: VOLATILES	6					Analyst	CCM
Benzene	9	ND	0.025		mg/Kg	1	4/24/2021 7:47:00 PM	59578
Toluene		ND	0.050		mg/Kg	1	4/24/2021 7:47:00 PM	59578
Ethylben	izene	ND	0.050		mg/Kg	1	4/24/2021 7:47:00 PM	59578
Xylenes,	, Total	ND	0.099		mg/Kg	1	4/24/2021 7:47:00 PM	59578
Surr: 4	4-Bromofluorobenzene	88.2	70-130		%Rec	1	4/24/2021 7:47:00 PM	59578

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 S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 13

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104970

Date Reported: 4/29/2021

CLIENT:	EOG		Cl	ient Sa	ample II	D: A1	l-1 4'	
Project:	Jackson B 17		(Collect	ion Dat	e: 4/2	20/2021 2:58:00 PM	
Lab ID:	2104970-003	Matrix: SOIL		Recei	ved Dat	e: 4/2	22/2021 7:55:00 AM	
Analyses	3	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS						Analyst	VP
Chloride		610	60		mg/Kg	20	4/27/2021 1:32:45 AM	59643
EPA ME	THOD 8015M/D: DIESEL F	RANGE ORGANICS					Analyst	mb
Diesel R	ange Organics (DRO)	4500	190		mg/Kg	20	4/25/2021 11:34:52 AM	59581
Motor O	il Range Organics (MRO)	2500	970		mg/Kg	20	4/25/2021 11:34:52 AM	59581
Surr:	DNOP	0	70-130	S	%Rec	20	4/25/2021 11:34:52 AM	59581
EPA ME	THOD 8015D: GASOLINE	RANGE					Analyst	ССМ
Gasoline	e Range Organics (GRO)	180	5.0		mg/Kg	1	4/24/2021 8:07:00 PM	59578
Surr:	BFB	305	70-130	S	%Rec	1	4/24/2021 8:07:00 PM	59578
EPA ME	THOD 8021B: VOLATILES	5					Analyst	CCM
Benzene	e	ND	0.025		mg/Kg	1	4/24/2021 8:07:00 PM	59578
Toluene		ND	0.050		mg/Kg	1	4/24/2021 8:07:00 PM	59578
Ethylber	nzene	0.084	0.050		mg/Kg	1	4/24/2021 8:07:00 PM	59578
Xylenes,	, Total	1.3	0.099		mg/Kg	1	4/24/2021 8:07:00 PM	59578
Surr: 4	4-Bromofluorobenzene	124	70-130		%Rec	1	4/24/2021 8:07:00 PM	59578

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 S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 13

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104970

Date Reported: 4/29/2021

CLIENT:	EOG		Cl	ient Sa	ample II	D: A1	l-1 6'	
Project:	Jackson B 17		(Collect	tion Dat	e: 4/2	20/2021 3:00:00 PM	
Lab ID:	2104970-004	Matrix: SOIL		Recei	ved Dat	e: 4/2	22/2021 7:55:00 AM	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	THOD 300.0: ANIONS						Analyst	: VP
Chloride		1300	61		mg/Kg	20	4/27/2021 2:09:59 AM	59643
EPA ME	THOD 8015M/D: DIESEL I	RANGE ORGANICS					Analyst	: mb
Diesel R	ange Organics (DRO)	7600	190		mg/Kg	20	4/25/2021 12:00:21 PM	59581
Motor Oi	il Range Organics (MRO)	3400	970		mg/Kg	20	4/25/2021 12:00:21 PM	59581
Surr: I	DNOP	0	70-130	S	%Rec	20	4/25/2021 12:00:21 PM	59581
EPA MET	THOD 8015D: GASOLINE	RANGE					Analyst	CCM
Gasoline	e Range Organics (GRO)	1200	250		mg/Kg	50	4/27/2021 5:38:00 PM	59578
Surr: I	BFB	280	70-130	S	%Rec	50	4/27/2021 5:38:00 PM	59578
EPA MET	THOD 8021B: VOLATILES	6					Analyst	CCM
Benzene)	ND	0.025		mg/Kg	1	4/24/2021 8:27:00 PM	59578
Toluene		0.16	0.050		mg/Kg	1	4/24/2021 8:27:00 PM	59578
Ethylben	izene	2.3	0.050		mg/Kg	1	4/24/2021 8:27:00 PM	59578
Xylenes,	Total	67	5.0		mg/Kg	50	4/27/2021 5:38:00 PM	59578
Surr: 4	4-Bromofluorobenzene	552	70-130	S	%Rec	1	4/24/2021 8:27:00 PM	59578

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 S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 13

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104970

Date Reported: 4/29/2021

CLIENT:	EOG		Client Sample ID: A1-1 8'								
Project:	Jackson B 17		Collection Date: 4/20/2021 3:02:00 PM Matrix: SOIL Received Date: 4/22/2021 7:55:00 AM								
Lab ID:	2104970-005	Matrix: SOIL Received Date: 4/22/2021 7:55:00 Al									
Analyses	3	Result	RL	Qual	Units	DF	Date Analyzed	Batch			
EPA ME	THOD 300.0: ANIONS						Analyst	: VP			
Chloride		1300	60		mg/Kg	20	4/27/2021 2:22:23 AM	59643			
EPA ME	THOD 8015M/D: DIESEL R	ANGE ORGANICS					Analyst	mb			
Diesel Range Organics (DRO)		9900	470		mg/Kg	50	4/25/2021 12:26:08 PM	59581			
Motor Oil Range Organics (MRO)		4700	2400		mg/Kg	50	4/25/2021 12:26:08 PM	59581			
Surr:	DNOP	0	70-130	S	%Rec	50	4/25/2021 12:26:08 PM	59581			
EPA METHOD 8015D: GASOLINE RANGE		RANGE					Analyst	CCM			
Gasoline	e Range Organics (GRO)	1400	250		mg/Kg	50	4/27/2021 6:18:00 PM	59578			
Surr:	BFB	275	70-130	S	%Rec	50	4/27/2021 6:18:00 PM	59578			
EPA ME	THOD 8021B: VOLATILES	;					Analyst	CCM			
Benzene	e	ND	0.025		mg/Kg	1	4/24/2021 8:47:00 PM	59578			
Toluene		0.16	0.050		mg/Kg	1	4/24/2021 8:47:00 PM	59578			
Ethylber	izene	1.2	0.050		mg/Kg	1	4/24/2021 8:47:00 PM	59578			
Xylenes	, Total	72	5.0		mg/Kg	50	4/27/2021 6:18:00 PM	59578			
Surr	4-Bromofluorobenzene	402	70-130	S	%Rec	1	4/24/2021 8:47:00 PM	59578			

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 S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 5 of 13

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104970

Date Reported: 4/29/2021

CLIENT:	EQG	Client Sample ID: A1-1 10'							
Project:	Jackson B 17	Collection Date: 4/20/2021 3:05:00 P							
Lab ID:	2104970-006	Matrix: SOIL	Watrix: SOIL Received Date: 4/22/2021 7:55:00 AM						
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch		
EPA MET	HOD 300.0: ANIONS					Analyst	: VP		
Chloride		1900	59	mg/Kg	20	4/27/2021 2:34:47 AM	59643		
EPA MET	HOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst	: mb		
Diesel Range Organics (DRO)		300	9.8	mg/Kg	1	4/26/2021 11:53:14 PM	59581		
Motor Oil Range Organics (MRO)		520	49	mg/Kg	1	4/26/2021 11:53:14 PM	59581		
Surr: DNOP		92.6	70-130	%Rec	1	4/26/2021 11:53:14 PM	59581		
EPA METHOD 8015D: GASOLINE RANGE		IGE				Analyst	CCM		
Gasoline Range Organics (GRO)		ND	4.9	mg/Kg	1	4/27/2021 6:58:00 PM	59578		
Surr: E	3FB	111	70-130	%Rec	1	4/27/2021 6:58:00 PM	59578		
EPA METHOD 8021B: VOLATILES						Analyst	CCM		
Benzene		ND	0.025	mg/Kg	1	4/27/2021 6:58:00 PM	59578		
Toluene		ND	0.049	mg/Kg	1	4/27/2021 6:58:00 PM	59578		
Ethylben	zene	ND	0.049	mg/Kg	1	4/27/2021 6:58:00 PM	59578		
Xylenes,	Total	ND	0.098	mg/Kg	1	4/27/2021 6:58:00 PM	59578		
Surr: 4	4-Bromofluorobenzene	90.3	70-130	%Rec	1	4/27/2021 6:58:00 PM	59578		

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 S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 6 of 13

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104970

Date Reported: 4/29/2021

CLIENT:	EOG	Client Sample ID: A1-2 Sur							
Project:	Jackson B 17	Collection Date: 4/20/2021 3:08:00 PM							
Lab ID:	2104970-007	Matrix: SOIL	Matrix: SOIL Received Date: 4/22/2021 7:55:00 AM						
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch	
EPA MET	HOD 300.0: ANIONS						Analyst	: VP	
Chloride		2600	150		mg/Kg	50	4/27/2021 8:43:07 AM	59643	
EPA MET	HOD 8015M/D: DIESEL RA	NGE ORGANICS					Analyst	mb	
Diesel Range Organics (DRO)		9500	490		mg/Kg	50	4/25/2021 1:17:56 PM	59581	
Motor Oil Range Organics (MRO)		7600	2500		mg/Kg	50	4/25/2021 1:17:56 PM	59581	
Surr: I	ONOP	0	70-130	S	%Rec	50	4/25/2021 1:17:56 PM	59581	
EPA METHOD 8015D: GASOLINE RANGE		ANGE					Analyst	CCM	
Gasoline	Range Organics (GRO)	ND	5.0		mg/Kg	1	4/27/2021 7:39:00 PM	59578	
Surr: I	BFB	130	70-130		%Rec	1	4/27/2021 7:39:00 PM	59578	
EPA MET	HOD 8021B: VOLATILES						Analyst	CCM	
Benzene)	ND	0.025		mg/Kg	1	4/27/2021 7:39:00 PM	59578	
Toluene		ND	0.050		mg/Kg	1	4/27/2021 7:39:00 PM	59578	
Ethylben	zene	ND	0.050		mg/Kg	1	4/27/2021 7:39:00 PM	59578	
Xylenes,	Total	ND	0.099		mg/Kg	1	4/27/2021 7:39:00 PM	59578	
Surr: 4	4-Bromofluorobenzene	90.6	70-130		%Rec	1	4/27/2021 7:39:00 PM	59578	

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 S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 7 of 13
Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104970

Date Reported: 4/29/2021

CLIENT:	EOG		Cl	ient Sa	ample II	D: A1	-2 3'	
Project:	Jackson B 17		(Collect	ion Dat	e: 4/2	20/2021 3:11:00 PM	
Lab ID:	2104970-008	Matrix: SOIL		Recei	ved Dat	e: 4/2	22/2021 7:55:00 AM	
Analyses		Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS						Analyst	: VP
Chloride		3400	150		mg/Kg	50	4/27/2021 8:55:31 AM	59643
EPA MET	HOD 8015M/D: DIESEL R	ANGE ORGANICS					Analyst	: mb
Diesel R	ange Organics (DRO)	2300	200		mg/Kg	20	4/25/2021 1:43:54 PM	59581
Motor Oi	I Range Organics (MRO)	1300	1000		mg/Kg	20	4/25/2021 1:43:54 PM	59581
Surr: [ONOP	0	70-130	S	%Rec	20	4/25/2021 1:43:54 PM	59581
EPA MET	HOD 8015D: GASOLINE R	ANGE					Analyst	CCM
Gasoline	Range Organics (GRO)	59	4.9		mg/Kg	1	4/24/2021 9:47:00 PM	59578
Surr: E	BFB	236	70-130	S	%Rec	1	4/24/2021 9:47:00 PM	59578
EPA MET	HOD 8021B: VOLATILES						Analyst	CCM
Benzene	9	ND	0.025		mg/Kg	1	4/24/2021 9:47:00 PM	59578
Toluene		ND	0.049		mg/Kg	1	4/24/2021 9:47:00 PM	59578
Ethylben	zene	0.051	0.049		mg/Kg	1	4/24/2021 9:47:00 PM	59578
Xylenes,	Total	1.4	0.099		mg/Kg	1	4/24/2021 9:47:00 PM	59578
Surr: 4	4-Bromofluorobenzene	138	70-130	S	%Rec	1	4/24/2021 9:47:00 PM	59578

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 S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 8 of 13

Analytical Report

Hall Environmental Analysis Laboratory, Inc.

Lab Order 2104970

Date Reported: 4/29/2021

CLIENT:	EOG		Cl	ient Sa	ample II	D: A1	1-3 2'	
Project:	Jackson B 17		(Collect	ion Dat	e: 4/2	20/2021 3:14:00 PM	
Lab ID:	2104970-009	Matrix: SOIL		Recei	ved Dat	e: 4/2	22/2021 7:55:00 AM	
Analyses	3	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS						Analyst:	VP
Chloride		730	60		mg/Kg	20	4/27/2021 3:12:00 AM	59643
EPA ME	THOD 8015M/D: DIESEL R	ANGE ORGANICS					Analyst:	mb
Diesel R	ange Organics (DRO)	3000	480		mg/Kg	50	4/25/2021 2:09:59 PM	59581
Motor O	il Range Organics (MRO)	3200	2400		mg/Kg	50	4/25/2021 2:09:59 PM	59581
Surr:	DNOP	0	70-130	S	%Rec	50	4/25/2021 2:09:59 PM	59581
EPA ME	THOD 8015D: GASOLINE	RANGE					Analyst:	ССМ
Gasoline	e Range Organics (GRO)	ND	5.0		mg/Kg	1	4/24/2021 10:06:00 PM	59578
Surr:	BFB	110	70-130		%Rec	1	4/24/2021 10:06:00 PM	59578
EPA ME	THOD 8021B: VOLATILES						Analyst:	ССМ
Benzene	e	ND	0.025		mg/Kg	1	4/24/2021 10:06:00 PM	59578
Toluene		ND	0.050		mg/Kg	1	4/24/2021 10:06:00 PM	59578
Ethylber	izene	ND	0.050		mg/Kg	1	4/24/2021 10:06:00 PM	59578
Xylenes,	, Total	ND	0.10		mg/Kg	1	4/24/2021 10:06:00 PM	59578
Surr:	4-Bromofluorobenzene	87.4	70-130		%Rec	1	4/24/2021 10:06:00 PM	59578

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 S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 9 of 13

QU DU		WO#:	2104970
Hall Env		29-Apr-21	
Client:	EOG		

Project:	Jackson B 17									
Sample ID: MB-5	59643 Sam	рТуре: 🛚	IBLK	Tes	tCode: EP	PA Method	300.0: Anion	s		
Client ID: PBS	Ba	tch ID: 5	9643	F	RunNo: 76	6958				
Prep Date: 4/20	6/2021 Analysi	s Date:	4/26/2021	S	SeqNo: 27	27668	Units: mg/K	g		
Analyte	Resul	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.	5							
Sample ID: LCS-	-59643 Sam	pType: L	.CS	Tes	tCode: EP	PA Method	300.0: Anion	s		
Client ID: LCS	S Ba	tch ID: 5	9643	F	RunNo: 76	958				
Prep Date: 4/20	6/2021 Analysi	s Date:	4/26/2021	5	SeqNo: 27	27669	Units: mg/K	g		
Analyte	Resul	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.	5 15.00	0	93.2	90	110			

- 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 S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 10 of 13

QC SUI		WO#:	2104970
Hall Env		29-Apr-21	
Client:	EOG		

Project:	Jackson B 17									
Sample ID: MB-5	9581	SampType:	MBLK	Tes	tCode: EF	PA Method	8015M/D: Dies	sel Range	e Organics	
Client ID: PBS		Batch ID:	59581	F	RunNo: 76	6896				
Prep Date: 4/22	2 /2021 Ana	lysis Date:	4/23/2021	S	SeqNo: 27	725255	Units: mg/Kg	I		
Analyte	Re	sult PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	s (DRO)	ND	10							
Motor Oil Range Organ	nics (MRO)	ND	50							
Surr: DNOP		13	10.00		129	70	130			
Sample ID: LCS-59581 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID: LCSS	5	Batch ID:	59581	F	RunNo: 76	6896				
Prep Date: 4/22	2 /2021 Ana	lysis Date:	4/23/2021	S	SeqNo: 27	725258	Units: mg/Kg	I		
Analyte	Re	sult PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics	s (DRO)	62	10 50.00	0	124	68.9	141			
Surr: DNOP		6.6	5.000		131	70	130			S
Sample ID: MB-5	9616	SampType:	MBLK	Tes	tCode: EF	PA Method	8015M/D: Dies	sel Range	e Organics	
Client ID: PBS		Batch ID:	59616	F	RunNo: 76	6932				
Prep Date: 4/23	2 /2021 Ana	lysis Date:	4/26/2021	S	SeqNo: 27	726483	Units: %Rec			
Analyte	Re	sult PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		8.7	10.00		86.8	70	130			
Sample ID: LCS-	59616	SampType:	LCS	Tes	tCode: EF	PA Method	8015M/D: Dies	sel Range	e Organics	
Client ID: LCSS	5	Batch ID:	59616	F	RunNo: 76	6932				
Prep Date: 4/23	2 /2021 Ana	lysis Date:	4/26/2021	S	SeqNo: 27	726484	Units: %Rec			
Analyte	Re	sult PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.4	5.000		88.9	70	130			

- 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 S

- В Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit

	WO#:	2104970
all Environmental Analysis Laboratory, Inc.		29-Apr-21

Client: EC)G												
Project: Jac	kson B 17												
Sample ID: LCS-59578	TestCode: EPA Method 8015D: Gasoline Range												
Client ID: LCSS Batch ID: 59578			F	RunNo: 76952									
Prep Date: 4/22/2021 Analysis Date: 4/24/2021 SeqNo: 2727288				Units: mg/k	٢g								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Range Organics (Gl	RO) 25	5.0	25.00	0	99.8	78.6	131						
Surr: BFB	1200		1000		115	70	130						
Sample ID: MB-59578	Samp	Туре: М	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e				
Client ID: PBS	Bato	h ID: 59	578	F	RunNo: 7	6952							
Prep Date: 4/22/2021	Analysis	Date: 4/	24/2021	5	SeqNo: 2	727289	Units: mg/ł	٢g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Range Organics (Gl	RO) ND	5.0											
Surr: BFB	1000		1000		105	70	130						

- 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
- Practical Quanitative Limit PQL
- % Recovery outside of range due to dilution or matrix S

- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 12 of 13

EOG

Jackson B 17

Client:

Project:

Sample ID: LCS-59578

Surr: 4-Bromofluorobenzene

PBS

Surr: 4-Bromofluorobenzene

4/22/2021

Sample ID: MB-59578

4/22/2021

Client ID: LCSS

Prep Date:

Analvte

Ethylbenzene

Xylenes, Total

Client ID:

Prep Date:

Analyte

Ethylbenzene

Xylenes, Total

Benzene Toluene

Benzene

Toluene

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Result

0.88

0.87

0.89

2.6

0.88

Result

ND

ND

ND ND

0.88

SampType: LCS

Batch ID: 59578

Analysis Date: 4/24/2021

PQL

0.025

0.050

0.050

0.10

SampType: MBLK

Batch ID: 59578

Analysis Date: 4/24/2021

PQL

0.025

0.050 0.050

0.10

SPK value SPK Ref Val

SPK value SPK Ref Val

1.000

1.000

1.000

3.000

1.000

1.000

WO#:	210493
	29-Apr-2

Е Value above quantitation range

- J
- Sample pH Not In Range

Page 13 of 13

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 S

- Analyte detected below quantitation limits
- в
 - Analyte detected in the associated Method Blank
 - Р RL Reporting Limit

70 21

RPDLimit

RPDLimit

Qual

Qual

TestCode: EPA Method 8021B: Volatiles

LowLimit

80

80

80

80

70

TestCode: EPA Method 8021B: Volatiles

LowLimit

70

Units: mg/Kg

120

120

120

120

130

Units: mg/Kg

130

HighLimit

%RPD

%RPD

HighLimit

RunNo: 76952

%REC

88.4

87.1

89.4

87.9

87.9

RunNo: 76952

%REC

88.4

SeqNo: 2727318

0

0

0

0

SeqNo: 2727317

Dama	12		<u> </u>
rage	4.5	01	100
- "a-		~	00

ANALYSIS LABORATORY	riaii Environmental Albu TEL: 505-345-3975 Website: clients.hai	Analy 49(Iquera FAX: Ilenvi	sis Labor I Hawkin que, NM 8 505-345- ronmental	aiory ns NE 7109 Sar 4107 I.com	Sample Log-In Check Li					
Client Name: EOG	Work Order Number:	210	4970		RcptNo:	1				
Received By: Cheyenne Cason 4/	22/2021 7:55:00 AM			Cherl						
Completed By: Desiree Dominguez 4/	22/2021 8:13:30 AM			T-D-						
Reviewed By: JR 4/22/21				Land and						
Chain of Custody										
1. Is Chain of Custody complete?		Yes	\checkmark	No 📋	Not Present					
2. How was the sample delivered?		<u>Cou</u>	rier							
Log In			_		_					
3. Was an attempt made to cool the samples?		Yes	✓	No						
4. Were all samples received at a temperature of >	•0° C to 6.0°C	Yes		No 🗌	NA 🗌					
5. Sample(s) in proper container(s)?		Yes	✓	No 🗌						
6. Sufficient sample volume for indicated test(s)?		Yes	✓	No 🗆						
7. Are samples (except VOA and ONG) properly pro	eserved?	Yes	✓	No 🗌						
8. Was preservative added to bottles?		Yes		No 🗹	NA 🗌					
9. Received at least 1 vial with headspace <1/4" for	AQ VOA?	Yes		No 🗌	NA 🗹	~~~~`\				
10. Were any sample containers received broken?		Yes		No 🖌		10				
					# of preserved bottles checked	C/ 17				
11. Does paperwork match bottle labels?		Yes	✓	No 🗌	for pH:					
2. Are matrices correctly identified on Chain of Cust	todv?	Yes		No	Adjusted?					
3. Is it clear what analyses were requested?		Yes		No 🗌						
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes		No 🗌	Checked by:					
Special Handling (if applicable)										
15. Was client notified of all discrepancies with this of	order?	Yes		No 🗌	NA 🗹					
Person Notified:	Date:									
By Whom:	Via:] eMa	ail 🗌 P	hone 🗌 Fax	In Person					
Regarding:		A DALLE L'ANNA DE								
Client Instructions:		ad is deviced as a	·····							
16. Additional remarks:					· ··· · · - ·· · · · · · · · · · ·					
17. <u>Cooler Information</u> Cooler No Temp °C Condition Seal Ir	ntact Seal No Se	eal D	ate	Signed By						
1 0.7 Good				Signed Dy						

Page 1 of 1

.....

.

The second s

Received by OCD: 9/1/2021 10	26:40 AM	1					ľ					Page 44 of 88
IAL ORY												
		—										tical repo
NM NM m A 8710 4107												 the analy
AE al.co 345- Jest	Total Coliform (Present/Absent)	-									-+	 uo pa
TIF nent 505- Req	(AOV-im92) 0728	1										 y notat
NV SIS Jironi Jironi Duqu SIS	- (AOV) 0928	;										e clear
allenv Anal	0) E, Br, NO₃, NO₂, PO₄, SO₄	\mathbf{Y}										 a will b
ALL Mu.ha NE 3975	RCRA 8 Metals											 of dat
H w w vkins 345-	SMI20758 10 0158 vd 8HAS											
1 Hav		2										 A sub-
490 ⁴ Tel.								_				 arks: ity. An
	(1508) s'8MT \ 38TM \ X3T8	X	-									 Rema
	O	142 W 192 A										
		Carlor Carlor	4	3	Ţ	In	و	4	.0	æ		ine 155 me
		0	S	8	0	00	0	0	Ś	0		
			1	•	1	1	ī	١	ĩ	Ī		Date Date
# Pa		•										 4 1/21
B Rus	A CONTRACT											
me:		TC.	_									dited is
nd Til Mre: Are								_				
Aroun ands t Na	t Ma	155/										to effe
nurn vrojec	rojec	02 [1]	~									eceive tracted
		4						_				
	ation											ay be
00	e <											ental E
		5	,Ζ	H'	61	8'	10'	5	M	2		
9 년												
sto.	amr lev	41-	1-1	-	-		-	1-2	1-2	$\sum_{i=1}^{n}$		
			-	Å	1	А	A	_	$\overline{\nabla}$	4		
Prese level	atrix	Soil							_			elinqui imples
		101		24	0	2	5	8				
Addr Addr	Time	2,51	2:56	2:5	S:0	3:0	3.0	3:0	ŝ	3:1		Time: Time: Time:
one #	e RDD Stan	9/21				-						
ゔ ≚ E Released to Imaging: 1/21/202	5 8	4/2						_				

44 of 88 -



June 10, 2021

Tom Larson GHD 6121 Indian School Road, NE #200 Albuquerque, NM 87110 TEL: (505) 884-0672 FAX

RE: Jackson B 17 Flowline 1

OrderNo.: 2105B47

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 21 sample(s) on 5/27/2021 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

Date Reported:	6/10/2021
	Date Reported:

CLIENT:	GHD			L	ab C	Drder: 2105E	347
Project:	Jackson B 17 Flowline 1						
Lab ID:	2105B47-001		С	ollection Date	: 5/2	25/2021 9:25:00 A	М
Client Sample	e ID: A1-1 16'			Matrix	: SC	DIL	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHO	D 300.0: ANIONS					Ana	alyst: VP
Chloride		1400	60	mg/Kg	20	6/2/2021 1:30:13 P	M 60384
EPA METHO	D 8015D MOD: GASOLINE F	RANGE				Ana	alyst: JMR
Gasoline Rar	nge Organics (GRO)	66	24	mg/Kg	5	5/29/2021 10:28:00) AM 60310
Surr: BFB	5 5 (),	104	70-130	%Rec	5	5/29/2021 10:28:00	AM 60310
EPA METHO	D 8015M/D: DIESEL RANGE	ORGANICS				Ana	alyst: SB
Diesel Range	e Organics (DRO)	590	43	mg/Kg	5	6/1/2021 4:24:15 P	M 60311
Motor Oil Ra	nge Organics (MRO)	410	210	mg/Kg	5	6/1/2021 4:24:15 P	M 60311
Surr: DNO	P	102	70-130	%Rec	5	6/1/2021 4:24:15 P	M 60311
EPA METHO	D 8260B: VOLATILES SHOR					Ana	alyst: JMR
Benzene		ND	0.12	mg/Kg	5	5/29/2021 10:28:00	AM 60310
Toluene		ND	0.24	mg/Kg	5	5/29/2021 10:28:00	AM 60310
Ethylbenzene	e	0.43	0.24	mg/Kg	5	5/29/2021 10:28:00	AM 60310
Xylenes, Tota	al	1.5	0.49	mg/Kg	5	5/29/2021 10:28:00	AM 60310
Surr: 1,2-D	Dichloroethane-d4	84.1	70-130	%Rec	5	5/29/2021 10:28:00	AM 60310
Surr: 4-Bro	omofluorobenzene	84.0	70-130	%Rec	5	5/29/2021 10:28:00	AM 60310
Surr: Dibro	omofluoromethane	102	70-130	%Rec	5	5/29/2021 10:28:00	AM 60310
Surr: Tolue	ene-d8	94.4	70-130	%Rec	5	5/29/2021 10:28:00	AM 60310

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 S

Е Value above quantitation range

Analyte detected in the associated Method Blank

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

в

RL Reporting Limit Page 1 of 28

.

au

Analytical Report
Lab Order: 2105B47

						 _	-	-				
т	Data	D	ond	\rt	ad	6	1	n	n	n'	•	1

5/29/2021 10:56:32 AM 60310

5/29/2021 10:56:32 AM 60310

Date Reported.	0/10/2021

CLIENI:	GHD			L	ab C	Order: 21051	347	
Project:	Jackson B 17 Flowline 1							
Lab ID:	2105B47-002		Co	llection Date	: 5/2	25/2021 9:35:00 A	М	
Client Sample I	D: A1-1 20'			Matrix	: SC	DIL		
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD	300.0: ANIONS					Ana	alyst:	VP
Chloride		4400	150	mg/Kg	50	6/4/2021 9:43:51 A	M	60384
EPA METHOD	8015D MOD: GASOLINE RA	ANGE				Ana	alyst:	JMR
Gasoline Range	e Organics (GRO)	ND	9.8	mg/Kg	2	5/29/2021 10:56:32	2 AM	60310
Surr: BFB		103	70-130	%Rec	2	5/29/2021 10:56:32	2 AM	60310
EPA METHOD	8015M/D: DIESEL RANGE	ORGANICS				Ana	alyst:	SB
Diesel Range C	Drganics (DRO)	100	10	mg/Kg	1	5/29/2021 1:46:09	РМ	60311
Motor Oil Rang	e Organics (MRO)	ND	50	mg/Kg	1	5/29/2021 1:46:09	PM	60311
Surr: DNOP		110	70-130	%Rec	1	5/29/2021 1:46:09	PM	60311
EPA METHOD	8260B: VOLATILES SHORT	T LIST				Ana	alyst:	JMR
Benzene		ND	0.049	mg/Kg	2	5/29/2021 10:56:32	2 AM	60310
Toluene		ND	0.098	mg/Kg	2	5/29/2021 10:56:32	2 AM	60310
Ethylbenzene		ND	0.098	mg/Kg	2	5/29/2021 10:56:32	2 AM	60310
Xylenes, Total		ND	0.20	mg/Kg	2	5/29/2021 10:56:32	2 AM	60310
Surr: 1,2-Dic	hloroethane-d4	83.3	70-130	%Rec	2	5/29/2021 10:56:32	2 AM	60310
Surr: 4-Brom	ofluorobenzene	90.9	70-130	%Rec	2	5/29/2021 10:56:32	2 AM	60310

104

96.3

70-130

70-130

%Rec

%Rec

2

2

Hall Environmental Analysis Laboratory, Inc.

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

Surr: Dibromofluoromethane

Surr: Toluene-d8

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

E Value above quantitation range

Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

P Sample pH Not In Range RL Reporting Limit

в

Page 2 of 28

Date Reported:	6/10/2021

Hall Envi	ronmental Analysis	Laboratory,	Inc.		Γ	Date Reported: 6/10	/2021	l
CLIENT: Project:	GHD Jackson B 17 Flowline 1			L	.ab C	Order: 21051	347	
Lab ID:	2105B47-003		Coll	lection Date	: 5/2	25/2021 10:00:00	٩M	
Client Sample	e ID: A1-2 8'			Matrix	: SC	DIL		
Analyses		Result	RL Q	ual Units	DF	Date Analyzed	Ba	tch ID
EPA METHO	D 300.0: ANIONS					Ana	alyst:	VP
Chloride		810	60	mg/Kg	20	6/2/2021 1:55:01 F	'n	60384
EPA METHO	D 8015D MOD: GASOLINE R	ANGE				Ana	alyst:	JMR
Gasoline Rar	nge Organics (GRO)	ND	4.8	mg/Kg	1	5/29/2021 11:25:00	3 AM	60310
Surr: BFB		102	70-130	%Rec	1	5/29/2021 11:25:00	3 AM	60310
EPA METHO	D 8015M/D: DIESEL RANGE	ORGANICS				Ana	alyst:	SB
Diesel Range	e Organics (DRO)	55	9.8	mg/Kg	1	5/29/2021 1:56:26	PM	60311
Motor Oil Rar	nge Organics (MRO)	ND	49	mg/Kg	1	5/29/2021 1:56:26	PM	60311
Surr: DNO	P	114	70-130	%Rec	1	5/29/2021 1:56:26	PM	60311
EPA METHO	D 8260B: VOLATILES SHOR	T LIST				Ana	alyst:	JMR
Benzene		ND	0.024	mg/Kg	1	5/29/2021 11:25:00	3 AM	60310
Toluene		ND	0.048	mg/Kg	1	5/29/2021 11:25:00	3 AM	60310
Ethylbenzene	e	ND	0.048	mg/Kg	1	5/29/2021 11:25:00	3 AM	60310
Xylenes, Tota	al	ND	0.097	mg/Kg	1	5/29/2021 11:25:00	3 AM	60310
Surr: 1,2-D	Dichloroethane-d4	87.0	70-130	%Rec	1	5/29/2021 11:25:00	3 AM	60310
Surr: 4-Bro	omofluorobenzene	88.0	70-130	%Rec	1	5/29/2021 11:25:00	3 AM	60310
Surr: Dibro	omofluoromethane	106	70-130	%Rec	1	5/29/2021 11:25:00	3 AM	60310

97.8

70-130

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 S

Е Value above quantitation range

Analyte detected in the associated Method Blank

%Rec 1

5/29/2021 11:25:06 AM 60310

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

RL Reporting Limit

в

Page 3 of 28

.

Surr: Toluene-d8

GHD

CLIENT:

Analytical Report Lab Order: 2105B47

Date Reported: 6/10/2021

Hall Environmental Analysis	Laboratory, Inc.
-----------------------------	------------------

Lab Order: 2105B47

Project:	Jackson B 17 Flowline 1							
Lab ID:	2105B47-004		C	Collection Date	: 5/2	25/2021 10:10:00 A	AM	
Client Sample I	D: A1-2 14'			Matrix	: SC	DIL		
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Ba	tch ID
EPA METHOD	300.0: ANIONS					Ana	alyst:	VP
Chloride		460	60	mg/Kg	20	6/2/2021 2:07:26 P	M	60384
EPA METHOD	8015D MOD: GASOLINE R	ANGE				Ana	alyst:	JMR
Gasoline Range	e Organics (GRO)	ND	4.9	mg/Kg	1	5/29/2021 11:53:41	AM	60316
Surr: BFB		104	70-130	%Rec	1	5/29/2021 11:53:41	I AM	60316
EPA METHOD	8015M/D: DIESEL RANGE	ORGANICS				Ana	alyst:	SB
Diesel Range C	Drganics (DRO)	40	9.7	mg/Kg	1	6/1/2021 10:58:11	AM	60318
Motor Oil Rang	e Organics (MRO)	ND	48	mg/Kg	1	6/1/2021 10:58:11	AM	60318
Surr: DNOP		127	70-130	%Rec	1	6/1/2021 10:58:11	AM	60318
EPA METHOD	8260B: VOLATILES SHOR	T LIST				Ana	alyst:	JMR
Benzene		ND	0.025	mg/Kg	1	5/29/2021 11:53:41	I AM	60316
Toluene		ND	0.049	mg/Kg	1	5/29/2021 11:53:41	I AM	60316
Ethylbenzene		ND	0.049	mg/Kg	1	5/29/2021 11:53:41	AM I	60316
Xylenes, Total		ND	0.098	mg/Kg	1	5/29/2021 11:53:41	AM I	60316
Surr: 1,2-Dic	hloroethane-d4	88.6	70-130	%Rec	1	5/29/2021 11:53:41	I AM	60316
Surr: 4-Brom	ofluorobenzene	95.8	70-130	%Rec	1	5/29/2021 11:53:41	AM I	60316
Surr: Dibrom	ofluoromethane	108	70-130	%Rec	1	5/29/2021 11:53:41	AM I	60316
Surr: Toluen	e-d8	96.8	70-130	%Rec	1	5/29/2021 11:53:41	AM I	60316

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

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

E Value above quantitation range

Analyte detected in the associated Method Blank

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

в

Page 4 of 28

Date Reported:	6/10/2021

CLIENT:	GHD			L	ab O	order: 2105B47	
Project:	Jackson B 17 Flowline 1						
Lab ID:	2105B47-005		Col	lection Date	: 5/2	.5/2021 10:20:00 AM	
Client Sample	e ID: A1-3 6'			Matrix	: SO	IL	
Analyses		Result	RL Q	Qual Units	DF	Date Analyzed B	atch ID
EPA METHO	D 300.0: ANIONS					Analys	t: VP
Chloride		1500	60	mg/Kg	20	6/2/2021 2:19:50 PM	60384
EPA METHO	D 8015D MOD: GASOLINE RA	NGE				Analys	t: JMR
Gasoline Rai	nge Organics (GRO)	6.3	4.9	mg/Kg	1	5/29/2021 3:13:57 PM	60316
Surr: BFB		107	70-130	%Rec	1	5/29/2021 3:13:57 PM	60316
ΕΡΑ ΜΕΤΗΟ	D 8015M/D: DIESEL RANGE O	RGANICS				Analys	t: SB
Diesel Range	e Organics (DRO)	340	19	mg/Kg	2	6/2/2021 4:11:46 PM	60318
Motor Oil Ra	nge Organics (MRO)	390	96	mg/Kg	2	6/2/2021 4:11:46 PM	60318
Surr: DNC)P	96.3	70-130	%Rec	2	6/2/2021 4:11:46 PM	60318
EPA METHO	D 8260B: VOLATILES SHORT	LIST				Analys	t: JMR
Benzene		ND	0.024	mg/Kg	1	5/29/2021 3:13:57 PM	60316
Toluene		ND	0.049	mg/Kg	1	5/29/2021 3:13:57 PM	60316
Ethylbenzene	e	ND	0.049	mg/Kg	1	5/29/2021 3:13:57 PM	60316
Xylenes, Tota	al	0.14	0.097	mg/Kg	1	5/29/2021 3:13:57 PM	60316
Surr: 1,2-E	Dichloroethane-d4	88.2	70-130	%Rec	1	5/29/2021 3:13:57 PM	60316
Surr: 4-Bro	omofluorobenzene	88.7	70-130	%Rec	1	5/29/2021 3:13:57 PM	60316
Surr: Dibro	omofluoromethane	107	70-130	%Rec	1	5/29/2021 3:13:57 PM	60316
Surr: Tolue	ene-d8	94.7	70-130	%Rec	1	5/29/2021 3:13:57 PM	60316

Hall Environmental Analysis Laboratory, Inc.

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 s

Е Value above quantitation range

Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

Р Sample pH Not In Range RL Reporting Limit

в

Page 5 of 28

.

Luo	oraer.		D -	'	
D-4	. D	4 - J.	(11	0.00	1

Date Reported:	6/10/2021

CLIENT: Project:	GHD Jackson B 17 Flowline 1			L	ab C	Order: 2105	B47	
Lab ID:	2105B47-006		C	collection Date	: 5/2	25/2021 10:25:00	AM	
Client Sample	e ID: A1-3 8'			Matrix	: SC	DIL		
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Ba	atch ID
EPA METHO	D 300.0: ANIONS					An	alyst	: VP
Chloride		630	60	mg/Kg	20	6/2/2021 2:32:15	РМ	60384
EPA METHO	D 8015D MOD: GASOLINE F	RANGE				An	alyst	JMR
Gasoline Rar	nge Organics (GRO)	ND	5.0	mg/Kg	1	5/29/2021 4:39:44	PM	60316
Surr: BFB		103	70-130	%Rec	1	5/29/2021 4:39:44	PM	60316
EPA METHO	D 8015M/D: DIESEL RANGE	ORGANICS				An	alyst	SB
Diesel Range	Organics (DRO)	ND	9.2	mg/Kg	1	6/1/2021 11:36:54	AM	60318
Motor Oil Rar	nge Organics (MRO)	ND	46	mg/Kg	1	6/1/2021 11:36:54	AM	60318
Surr: DNO	P	126	70-130	%Rec	1	6/1/2021 11:36:54	AM	60318
EPA METHO	D 8260B: VOLATILES SHOP	RT LIST				An	alyst	: JMR
Benzene		ND	0.025	mg/Kg	1	5/29/2021 4:39:44	PM	60316
Toluene		ND	0.050	mg/Kg	1	5/29/2021 4:39:44	PM	60316
Ethylbenzene	2	ND	0.050	mg/Kg	1	5/29/2021 4:39:44	PM	60316
Xylenes, Tota	al	ND	0.10	mg/Kg	1	5/29/2021 4:39:44	PM	60316
Surr: 1,2-D	Dichloroethane-d4	85.5	70-130	%Rec	1	5/29/2021 4:39:44	PM	60316
Surr: 4-Bro	omofluorobenzene	95.1	70-130	%Rec	1	5/29/2021 4:39:44	PM	60316
Surr: Dibro	mofluoromethane	101	70-130	%Rec	1	5/29/2021 4:39:44	PM	60316

96.3

70-130

Hall Environmental Analysis Laboratory, Inc.

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 S

Е Value above quantitation range

Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

%Rec

1

5/29/2021 4:39:44 PM

60316

Р Sample pH Not In Range

RL Reporting Limit

в

Page 6 of 28

Surr: Toluene-d8

au

Analytical Report
Lab Order: 2105B47

Luo	01401.		Ъ	<i>'</i>	
D (ъ	. 1	(11	0.000	

Date Reported:	6/10/2021

Project: GHD Jackson B 17 Flowline 1			L	ab C)rder: 2105B47	
Lab ID: 2105B47-007		C	ollection Date	: 5/2	25/2021 10:30:00 AM	
Client Sample ID: A1-3 10'			Matrix	: SC	NL	
Analyses	Result	RL	Qual Units	DF	Date Analyzed H	Batch ID
EPA METHOD 300.0: ANIONS					Analys	st: VP
Chloride	400	60	mg/Kg	20	6/2/2021 3:09:28 PM	60384
EPA METHOD 8015D MOD: GASOLINE RANGE					Analys	st: JMR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/29/2021 5:08:20 PM	60316
Surr: BFB	100	70-130	%Rec	1	5/29/2021 5:08:20 PM	60316
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analys	st: SB
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	6/1/2021 11:46:35 AM	60318
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	6/1/2021 11:46:35 AM	60318
Surr: DNOP	126	70-130	%Rec	1	6/1/2021 11:46:35 AM	60318
EPA METHOD 8260B: VOLATILES SHORT LIST	-				Analys	st: JMR
Benzene	ND	0.024	mg/Kg	1	5/29/2021 5:08:20 PM	60316
Toluene	ND	0.049	mg/Kg	1	5/29/2021 5:08:20 PM	60316
Ethylbenzene	ND	0.049	mg/Kg	1	5/29/2021 5:08:20 PM	60316
Xylenes, Total	ND	0.098	mg/Kg	1	5/29/2021 5:08:20 PM	60316
Surr: 1,2-Dichloroethane-d4	80.2	70-130	%Rec	1	5/29/2021 5:08:20 PM	60316
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	5/29/2021 5:08:20 PM	60316

70-130

70-130

102

94.7

%Rec

%Rec

1

1

5/29/2021 5:08:20 PM

5/29/2021 5:08:20 PM

Hall Environmental Analysis Laboratory, Inc.

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

Surr: Dibromofluoromethane

Surr: Toluene-d8

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

E Value above quantitation range

Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

в

Page 7 of 28

60316

60316

Date Reported:	6/10/2021

CLIENT:	GHD			L	ab C	Order: 2105B4	7
Project:	Jackson B 17 Flowline 1						
Lab ID:	2105B47-008		C	ollection Date	: 5/2	25/2021 10:45:00 AN	[
Client Sample	e ID: TP1-S			Matrix	: SC	DIL	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHO	D 300.0: ANIONS					Analy	st: VP
Chloride		ND	60	mg/Kg	20	6/2/2021 3:21:53 PM	60384
EPA METHO	D 8015D MOD: GASOLINE R	ANGE				Analy	st: JMR
Gasoline Rar	nge Organics (GRO)	ND	5.0	mg/Kg	1	5/29/2021 5:36:54 PM	60316
Surr: BFB		105	70-130	%Rec	1	5/29/2021 5:36:54 PM	60316
EPA METHO	D 8015M/D: DIESEL RANGE	ORGANICS				Analy	st: SB
Diesel Range	e Organics (DRO)	ND	8.9	mg/Kg	1	6/1/2021 11:56:18 AM	60318
Motor Oil Rai	nge Organics (MRO)	ND	44	mg/Kg	1	6/1/2021 11:56:18 AM	60318
Surr: DNO	P	103	70-130	%Rec	1	6/1/2021 11:56:18 AM	60318
EPA METHO	D 8260B: VOLATILES SHOR	T LIST				Analy	st: JMR
Benzene		ND	0.025	mg/Kg	1	5/29/2021 5:36:54 PM	60316
Toluene		ND	0.050	mg/Kg	1	5/29/2021 5:36:54 PM	60316
Ethylbenzene	9	ND	0.050	mg/Kg	1	5/29/2021 5:36:54 PM	60316
Xylenes, Tota	al	ND	0.10	mg/Kg	1	5/29/2021 5:36:54 PM	60316
Surr: 1,2-D	Dichloroethane-d4	87.6	70-130	%Rec	1	5/29/2021 5:36:54 PM	60316
Surr: 4-Bro	omofluorobenzene	96.5	70-130	%Rec	1	5/29/2021 5:36:54 PM	60316
Surr: Dibro	omofluoromethane	102	70-130	%Rec	1	5/29/2021 5:36:54 PM	60316
Surr: Tolue	ene-d8	99.8	70-130	%Rec	1	5/29/2021 5:36:54 PM	60316

Hall Environmental Analysis Laboratory, Inc.

Analyte detected in the associated Method Blank в

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 S
- Е Value above quantitation range J
- Analyte detected below quantitation limits Sample pH Not In Range
- P Sample pH Not RL Reporting Limit

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

Page 8 of 28

.

*

Qualifiers:

Analytical Report Lab Order: 2105B47

Date Reported:	6/10/2021

	-	-				-	
CLIENT:	GHD			L	ab C	Order: 2105B	47
Project:	Jackson B 17 Flowline 1						
Lab ID:	2105B47-009		Co	llection Date	: 5/2	25/2021 10:50:00 A	М
Client Sample	e ID: TP1-2			Matrix	: SC	DIL	
Analyses		Result	RL (Qual Units	DF	Date Analyzed	Batch ID
EPA METHO	D 300.0: ANIONS					Ana	lyst: VP
Chloride		ND	59	mg/Kg	20	6/2/2021 3:34:18 PI	M 60384
ΕΡΑ ΜΕΤΗΟ	D 8015D MOD: GASOLINE R	ANGE				Ana	lyst: JMR
Gasoline Rar	nge Organics (GRO)	ND	4.9	ma/Ka	1	5/29/2021 6:05:29 F	2 2 M 60316
Surr: BFB	3	105	70-130	%Rec	1	5/29/2021 6:05:29 F	M 60316
EPA METHO	D 8015M/D: DIESEL RANGE	ORGANICS				Ana	lyst: SB
Diesel Range	e Organics (DRO)	ND	8.8	mg/Kg	1	6/1/2021 12:06:01 F	· ·M 60318
Motor Oil Rai	nge Organics (MRO)	ND	44	mg/Kg	1	6/1/2021 12:06:01 F	M 60318
Surr: DNO	P	106	70-130	%Rec	1	6/1/2021 12:06:01 F	M 60318
EPA METHO	D 8260B: VOLATILES SHOR	T LIST				Ana	lyst: JMR
Benzene		ND	0.024	mg/Kg	1	5/29/2021 6:05:29 F	M 60316
Toluene		ND	0.049	mg/Kg	1	5/29/2021 6:05:29 F	M 60316
Ethylbenzene	e	ND	0.049	mg/Kg	1	5/29/2021 6:05:29 F	M 60316
Xylenes, Tota	al	ND	0.098	mg/Kg	1	5/29/2021 6:05:29 F	M 60316
Surr: 1,2-D	Dichloroethane-d4	84.5	70-130	%Rec	1	5/29/2021 6:05:29 F	°M 60316
Surr: 4-Bro	omofluorobenzene	96.7	70-130	%Rec	1	5/29/2021 6:05:29 F	°M 60316
Surr: Dibro	omofluoromethane	102	70-130	%Rec	1	5/29/2021 6:05:29 F	°M 60316
Surr: Tolue	ene-d8	97.9	70-130	%Rec	1	5/29/2021 6:05:29 F	M 60316

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 s

Value above quantitation range Е

Analyte detected in the associated Method Blank

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

в

Page 9 of 28

.

Analytical Report Lab Order: 2105B47

Date Reported:	6/10/2021

CLIENT:	GHD			L	ab O	order: 2105	B47	
Project:	Jackson B 17 Flowline 1							
Lab ID:	2105B47-010		Coll	lection Date	: 5/2	25/2021 11:00:00	AM	
Client Sample	e ID: TP2-S			Matrix	: SO	IL		
Analyses		Result	RL Q	ual Units	DF	Date Analyzed	Ba	atch ID
EPA METHO	D 300.0: ANIONS					An	alyst	: VP
Chloride		ND	60	mg/Kg	20	6/2/2021 3:46:42 F	۶M	60384
ΕΡΑ ΜΕΤΗΟ	D 8015D MOD: GASOLINE RAI	NGE				An	alyst:	JMR
Gasoline Rai	nge Organics (GRO)	ND	5.0	mg/Kg	1	5/29/2021 6:34:02	PM	60316
Surr: BFB		103	70-130	%Rec	1	5/29/2021 6:34:02	PM	60316
ΕΡΑ ΜΕΤΗΟ	D 8015M/D: DIESEL RANGE O	RGANICS				An	alyst:	JME
Diesel Range	e Organics (DRO)	ND	9.6	mg/Kg	1	6/3/2021 6:40:03 F	РΜ	60318
Motor Oil Ra	nge Organics (MRO)	52	48	mg/Kg	1	6/3/2021 6:40:03 F	νМ	60318
Surr: DNC	P	113	70-130	%Rec	1	6/3/2021 6:40:03 F	РΜ	60318
ΕΡΑ ΜΕΤΗΟ	D 8260B: VOLATILES SHORT	LIST				An	alyst	JMR
Benzene		ND	0.025	mg/Kg	1	5/29/2021 6:34:02	PM	60316
Toluene		ND	0.050	mg/Kg	1	5/29/2021 6:34:02	PM	60316
Ethylbenzene	e	ND	0.050	mg/Kg	1	5/29/2021 6:34:02	PM	60316
Xylenes, Tota	al	ND	0.099	mg/Kg	1	5/29/2021 6:34:02	PM	60316
Surr: 1,2-E	Dichloroethane-d4	85.8	70-130	%Rec	1	5/29/2021 6:34:02	PM	60316
Surr: 4-Bro	omofluorobenzene	96.5	70-130	%Rec	1	5/29/2021 6:34:02	PM	60316
Surr: Dibro	omofluoromethane	98.8	70-130	%Rec	1	5/29/2021 6:34:02	PM	60316
Surr: Tolue	ene-d8	96.8	70-130	%Rec	1	5/29/2021 6:34:02	РM	60316

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 S

Е Value above quantitation range

Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

Р Sample pH Not In Range

P Sample pH Not RL Reporting Limit

в

Page 10 of 28

.

Analytical Report
Lab Order: 2105B47

Data Damantadu	(110/202

					L	Jale Reported. 0/10/	2021
CLIENT:	GHD			L	ab C	Order: 2105B	47
Project:	Jackson B 17 Flowline 1						
Lab ID:	2105B47-011		С	ollection Date	: 5/2	25/2021 11:05:00 A	М
Client Sample	ID: TP2-2			Matrix	: SC	DIL	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHO	D 300.0: ANIONS					Ana	lyst: VP
Chloride		ND	60	mg/Kg	20	6/2/2021 3:59:07 P	M 60384
EPA METHO	D 8015D MOD: GASOLINE R	ANGE				Ana	lyst: JMR
Gasoline Ran	ge Organics (GRO)	ND	4.8	mg/Kg	1	5/29/2021 7:02:50 I	PM 60316
Surr: BFB		106	70-130	%Rec	1	5/29/2021 7:02:50 H	PM 60316
EPA METHO	D 8015M/D: DIESEL RANGE	ORGANICS				Ana	lyst: SB
Diesel Range	Organics (DRO)	ND	8.9	mg/Kg	1	6/1/2021 12:25:28 I	PM 60318
Motor Oil Ran	ge Organics (MRO)	ND	45	mg/Kg	1	6/1/2021 12:25:28 I	PM 60318
Surr: DNOF	C	117	70-130	%Rec	1	6/1/2021 12:25:28	PM 60318
EPA METHO	0 8260B: VOLATILES SHOR	T LIST				Ana	lyst: JMR
Benzene		ND	0.024	mg/Kg	1	5/29/2021 7:02:50 I	PM 60316
Toluene		ND	0.048	mg/Kg	1	5/29/2021 7:02:50 I	PM 60316
Ethylbenzene		ND	0.048	mg/Kg	1	5/29/2021 7:02:50 H	PM 60316
Xylenes, Tota	I	ND	0.097	mg/Kg	1	5/29/2021 7:02:50 H	PM 60316
Surr: 1,2-Di	ichloroethane-d4	85.8	70-130	%Rec	1	5/29/2021 7:02:50 I	PM 60316
Surr: 4-Broi	mofluorobenzene	98.4	70-130	%Rec	1	5/29/2021 7:02:50 I	PM 60316
Surr: Dibror	mofluoromethane	100	70-130	%Rec	1	5/29/2021 7:02:50	PM 60316

99.0

70-130

%Rec

1

5/29/2021 7:02:50 PM

60316

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

Qualifiers:

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

Value exceeds Maximum Contaminant Level.

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

E Value above quantitation range

Analyte detected in the associated Method Blank

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

в

Page 11 of 28

Surr: Toluene-d8

Analytical Report
Lab Order: 2105B47

240	010011		• /
_	-	-	

CLIENT: Project:	GHD Jackson B 17 Flowline 1			L	ab C	Order: 2105	B47	
Lab ID:	2105B47-012		C	ollection Date	: 5/2	25/2021 11:10:00	AM	
Client Sample	e ID: TP3-S			Matrix	: SC	DIL		
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Ba	atch ID
EPA METHO	D 300.0: ANIONS					An	alyst	: VP
Chloride		ND	59	mg/Kg	20	6/2/2021 4:36:21 F	ΡМ	60394
EPA METHOD 8015D MOD: GASOLINE RANGE		ANGE				An	alyst	JMR
Gasoline Ra	nge Organics (GRO)	ND	4.9	mg/Kg	1	5/29/2021 7:31:26	PM	60316
Surr: BFB		106	70-130	%Rec	1	5/29/2021 7:31:26	PM	60316
ΕΡΑ ΜΕΤΗΟ	D 8015M/D: DIESEL RANGE	ORGANICS				An	alyst	SB
Diesel Range	e Organics (DRO)	ND	9.9	mg/Kg	1	6/1/2021 12:35:13	PM	60318
Motor Oil Ra	nge Organics (MRO)	ND	50	mg/Kg	1	6/1/2021 12:35:13	PM	60318
Surr: DNC)P	116	70-130	%Rec	1	6/1/2021 12:35:13	PM	60318
EPA METHO	D 8260B: VOLATILES SHOR	TLIST				An	alyst	JMR
Benzene		ND	0.024	mg/Kg	1	5/29/2021 7:31:26	PM	60316
Toluene		ND	0.049	mg/Kg	1	5/29/2021 7:31:26	PM	60316
Ethylbenzen	e	ND	0.049	mg/Kg	1	5/29/2021 7:31:26	PM	60316
Xylenes, Tot	al	ND	0.098	mg/Kg	1	5/29/2021 7:31:26	PM	60316
Surr: 1,2-[Dichloroethane-d4	89.7	70-130	%Rec	1	5/29/2021 7:31:26	PM	60316
Surr: 4-Bro	omofluorobenzene	97.9	70-130	%Rec	1	5/29/2021 7:31:26	PM	60316
Surr: Dibro	omofluoromethane	106	70-130	%Rec	1	5/29/2021 7:31:26	PM	60316

97.8

70-130

%Rec

1

5/29/2021 7:31:26 PM 60316

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

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

E Value above quantitation range

Analyte detected in the associated Method Blank

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

в

Page 12 of 28

Surr: Toluene-d8

Analytical Report Lab Order: 2105B47

Date Reported:	6/10/2021

CLIENT: Project:	GHD Jackson B 17 Flowline 1			L	ab C	Order: 2105B4	7
Lab ID:	2105B47-013		Col	lection Date	: 5/2	25/2021 11:15:00 AN	Л
Client Sampl	e ID: TP3-2			Matrix	: SC	DIL	
Analyses		Result	RL Q	Qual Units	DF	Date Analyzed	Batch ID
EPA METHO	D 300.0: ANIONS					Analy	vst: VP
Chloride		ND	59	mg/Kg	20	6/2/2021 4:48:45 PM	60394
EPA METHOD 8015D MOD: GASOLINE RANGE		ANGE				Analy	st: JMR
Gasoline Ra	nge Organics (GRO)	ND	4.8	ma/Ka	1	5/29/2021 7:59:58 PI	M 60316
Surr: BFB	J - J ()	108	70-130	%Rec	1	5/29/2021 7:59:58 PM	M 60316
EPA METHO	D 8015M/D: DIESEL RANGE	ORGANICS				Analy	vst: SB
Diesel Rang	e Organics (DRO)	ND	8.8	ma/Ka	1	6/1/2021 12:44:58 PI	V 60318
Motor Oil Ra	nge Organics (MRO)	ND	44	mg/Kg	1	6/1/2021 12:44:58 PI	M 60318
Surr: DNC)P	100	70-130	%Rec	1	6/1/2021 12:44:58 PM	M 60318
EPA METHO	D 8260B: VOLATILES SHOR	T LIST				Analy	st: JMR
Benzene		ND	0.024	ma/Ka	1	5/29/2021 7:59:58 PI	M 60316
Toluene		ND	0.048	ma/Ka	1	5/29/2021 7:59:58 PI	M 60316
Ethylbenzen	e	ND	0.048	mg/Kg	1	5/29/2021 7:59:58 PI	M 60316
Xylenes, Tot	al	ND	0.096	mg/Kg	1	5/29/2021 7:59:58 PI	M 60316
Surr: 1,2-[Dichloroethane-d4	87.4	70-130	%Rec	1	5/29/2021 7:59:58 PI	M 60316
Surr: 4-Br	omofluorobenzene	99.6	70-130	%Rec	1	5/29/2021 7:59:58 PM	M 60316
Surr: Dibro	omofluoromethane	103	70-130	%Rec	1	5/29/2021 7:59:58 PM	M 60316
Surr: Tolu	ene-d8	100	70-130	%Rec	1	5/29/2021 7:59:58 PM	A 60316

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 MatrixH 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 S

Value above quantitation range Е

Analyte detected in the associated Method Blank

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

в

Page 13 of 28

Analytical Report Lab Order: 2105B47

Date Reported:	6/10/2021

	-	-				•	
CLIENT:	GHD			L	ab O	Order: 2105B	47
Project:	Jackson B 17 Flowline 1						
Lab ID:	2105B47-014		Col	llection Date	: 5/2	25/2021 11:20:00 A	М
Client Sample	e ID: TP4-S			Matrix	: SO	DIL	
Analyses		Result	RL (Qual Units	DF	Date Analyzed	Batch ID
EPA METHO	D 300.0: ANIONS					Ana	lyst: VP
Chloride		ND	60	mg/Kg	20	6/2/2021 5:01:09 PM	M 60394
ΕΡΑ ΜΕΤΗΟ	EPA METHOD 8015D MOD: GASOLINE RANGE					Ana	lvst: JMR
Gasoline Range Organics (GRO)		ND	4.9	ma/Ka	1	5/29/2021 8:28:35 F	M 60316
Surr: BFB	3	106	70-130	%Rec	1	5/29/2021 8:28:35 F	PM 60316
ΕΡΑ ΜΕΤΗΟ	D 8015M/D: DIESEL RANGE	ORGANICS				Ana	lyst: SB
Diesel Range	e Organics (DRO)	ND	10	mg/Kg	1	6/1/2021 12:54:43 F	M 60318
Motor Oil Ra	nge Organics (MRO)	ND	50	mg/Kg	1	6/1/2021 12:54:43 F	PM 60318
Surr: DNO	P	109	70-130	%Rec	1	6/1/2021 12:54:43 F	PM 60318
EPA METHO	D 8260B: VOLATILES SHOR	T LIST				Ana	lyst: JMR
Benzene		ND	0.024	mg/Kg	1	5/29/2021 8:28:35 F	PM 60316
Toluene		ND	0.049	mg/Kg	1	5/29/2021 8:28:35 F	PM 60316
Ethylbenzene	e	ND	0.049	mg/Kg	1	5/29/2021 8:28:35 F	PM 60316
Xylenes, Tota	al	ND	0.097	mg/Kg	1	5/29/2021 8:28:35 F	PM 60316
Surr: 1,2-E	Dichloroethane-d4	87.2	70-130	%Rec	1	5/29/2021 8:28:35 F	PM 60316
Surr: 4-Bro	omofluorobenzene	95.7	70-130	%Rec	1	5/29/2021 8:28:35 F	PM 60316
Surr: Dibro	omofluoromethane	99.8	70-130	%Rec	1	5/29/2021 8:28:35 F	PM 60316
Surr: Tolue	ene-d8	95.5	70-130	%Rec	1	5/29/2021 8:28:35 F	PM 60316

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 s

Е Value above quantitation range

Analyte detected in the associated Method Blank

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

в

Page 14 of 28

.

Analytical Report Lab Order: 2105B47

Date Reported:	6/10/2021

CLIENT: Project:	GHD Jackson B 17 Flowline 1			L	ab C	Order: 2105B4	7
	21057 15 015		C I				
Lab ID:	2105B47-015		Col	lection Date	: 5/2	25/2021 11:25:00 AN	/1
Client Sample	e ID: TP4-2			Matrix	: SC	DIL	
Analyses		Result	RL Ç	Qual Units	DF	Date Analyzed	Batch ID
EPA METHO	D 300.0: ANIONS					Analy	rst: VP
Chloride		ND	60	mg/Kg	20	6/4/2021 9:56:13 AM	60394
EPA METHOD 8015D MOD: GASOLINE RANGE						Analy	st .IMR
Casoline Ra			5.0	ma/Ka	1	5/20/2021 8·57·13 PM	A 60316
Surr: BFB	nge organics (ORO)	104	70-130	%Rec	1	5/29/2021 8:57:13 PM	/ 60316
			10 100	/01100	•	Angle	
EPAMEIHO	D 8015W/D: DIESEL RANGE	URGANICS				Analy	SI. 3B
Diesel Range	e Organics (DRO)	ND	9.5	mg/Kg	1	6/1/2021 1:04:31 PM	60318
Motor Oil Ra	nge Organics (MRO)	ND	47	mg/Kg	1	6/1/2021 1:04:31 PM	60318
Surr: DNC)P	129	70-130	%Rec	1	6/1/2021 1:04:31 PM	60318
EPA METHO	D 8260B: VOLATILES SHOR	T LIST				Analy	st: JMR
Benzene		ND	0.025	mg/Kg	1	5/29/2021 8:57:13 PM	A 60316
Toluene		ND	0.050	mg/Kg	1	5/29/2021 8:57:13 PM	A 60316
Ethylbenzen	e	ND	0.050	mg/Kg	1	5/29/2021 8:57:13 PM	A 60316
Xylenes, Tot	al	ND	0.099	mg/Kg	1	5/29/2021 8:57:13 PM	A 60316
Surr: 1,2-[Dichloroethane-d4	87.4	70-130	%Rec	1	5/29/2021 8:57:13 PM	A 60316
Surr: 4-Bro	omofluorobenzene	97.8	70-130	%Rec	1	5/29/2021 8:57:13 PM	A 60316
Surr: Dibro	omofluoromethane	104	70-130	%Rec	1	5/29/2021 8:57:13 PM	A 60316
Surr: Tolu	ene-d8	95.8	70-130	%Rec	1	5/29/2021 8:57:13 PM	A 60316

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 S

Value above quantitation range Е

Analyte detected in the associated Method Blank

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

в

Page 15 of 28

Data Dapartadi	6/10/202

Hall Envi	all Environmental Analysis Laboratory, In				I	Date Reported: 6/10/2	2021
CLIENT: Project:	GHD Jackson B 17 Flowline 1			L	ab C	Order: 2105B-	47
Lab ID:	2105B47-016		C	Collection Date	: 5/2	25/2021 11:30:00 A	М
Client Sample ID: TP5-S				Matrix	: SC	DIL	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHO	D 300.0: ANIONS					Anal	yst: VP
Chloride		ND	60	mg/Kg	20	6/2/2021 5:50:48 PM	<i>l</i> 60394
ΕΡΑ ΜΕΤΗΟ	D 8015D MOD: GASOLINE R	ANGE				Anal	yst: JMR
Gasoline Rar	nge Organics (GRO)	ND	4.8	mg/Kg	1	5/29/2021 9:25:56 P	M 60316
Surr: BFB		100	70-130	%Rec	1	5/29/2021 9:25:56 P	M 60316
EPA METHO	D 8015M/D: DIESEL RANGE	ORGANICS				Anal	yst: SB
Diesel Range	e Organics (DRO)	ND	9.7	mg/Kg	1	6/1/2021 1:14:18 PM	<i>I</i> 60318
Motor Oil Rai	nge Organics (MRO)	ND	48	mg/Kg	1	6/1/2021 1:14:18 PN	<i>I</i> 60318
Surr: DNO	P	121	70-130	%Rec	1	6/1/2021 1:14:18 PN	<i>I</i> 60318
ΕΡΑ ΜΕΤΗΟ	D 8260B: VOLATILES SHOR	T LIST				Anal	yst: JMR
Benzene		ND	0.024	mg/Kg	1	5/29/2021 9:25:56 P	M 60316
Toluene		ND	0.048	mg/Kg	1	5/29/2021 9:25:56 P	M 60316
Ethylbenzene	e	ND	0.048	mg/Kg	1	5/29/2021 9:25:56 P	M 60316
Xylenes, Tota	al	ND	0.096	mg/Kg	1	5/29/2021 9:25:56 P	M 60316
Surr: 1,2-D	Dichloroethane-d4	88.7	70-130	%Rec	1	5/29/2021 9:25:56 P	M 60316

92.6

98.4

95.3

70-130

70-130

70-130

%Rec

%Rec

%Rec

1

1

1

5/29/2021 9:25:56 PM

5/29/2021 9:25:56 PM

5/29/2021 9:25:56 PM

60316

60316

60316

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

Surr: 4-Bromofluorobenzene

Surr: Dibromofluoromethane

Surr: Toluene-d8

- 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 S

Е Value above quantitation range

Analyte detected in the associated Method Blank

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

в

Page 16 of 28

Date Reported:	6/10/2021

%Rec 1 5/29/2021 9:54:27 PM 60316

Hall Envi	Hall Environmental Analysis Laboratory, Inc. Date Reported: 6/10/2021						
CLIENT: Project:	GHD Jackson B 17 Flowline 1			L	ab O	Prder: 2105B4	7
Lab ID:	2105B47-017		Col	lection Date	: 5/2	25/2021 11:35:00 AM	Л
Client Sample	e ID: TP5-2			Matrix	: SO	IL	
Analyses		Result	RL (Qual Units	DF	Date Analyzed	Batch ID
EPA METHO	D 300.0: ANIONS					Analy	vst: VP
Chloride		ND	60	mg/Kg	20	6/2/2021 6:03:12 PM	60394
EPA METHOD 8015D MOD: GASOLINE RANGE		ANGE				Analy	st: JMR
Gasoline Rar	nge Organics (GRO)	ND	4.9	mg/Kg	1	5/29/2021 9:54:27 PI	M 60316
Surr: BFB		102	70-130	%Rec	1	5/29/2021 9:54:27 PM	M 60316
EPA METHO	D 8015M/D: DIESEL RANGE	ORGANICS				Analy	vst: SB
Diesel Range	e Organics (DRO)	ND	9.9	mg/Kg	1	6/1/2021 1:24:07 PM	60318
Motor Oil Rar	nge Organics (MRO)	ND	50	mg/Kg	1	6/1/2021 1:24:07 PM	60318
Surr: DNO	P	121	70-130	%Rec	1	6/1/2021 1:24:07 PM	60318
EPA METHO	D 8260B: VOLATILES SHOR	T LIST				Analy	st: JMR
Benzene		ND	0.024	mg/Kg	1	5/29/2021 9:54:27 PI	M 60316
Toluene		ND	0.049	mg/Kg	1	5/29/2021 9:54:27 PI	M 60316
Ethylbenzene	9	ND	0.049	mg/Kg	1	5/29/2021 9:54:27 PM	M 60316
Xylenes, Tota	al	ND	0.097	mg/Kg	1	5/29/2021 9:54:27 PM	M 60316
Surr: 1,2-D	Dichloroethane-d4	80.9	70-130	%Rec	1	5/29/2021 9:54:27 PM	M 60316
Surr: 4-Bro	omofluorobenzene	97.8	70-130	%Rec	1	5/29/2021 9:54:27 PM	M 60316
Surr: Dibro	omofluoromethane	102	70-130	%Rec	1	5/29/2021 9:54:27 PM	M 60316

97.7

70-130

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 S

Е Value above quantitation range

Analyte detected in the associated Method Blank

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

в

Page 17 of 28

.

Surr: Toluene-d8

Analytical Report Lab Order: 2105B47

Date Reported:	6/10/2021

CLIENT:	GHD			L	ab O	order: 2105B47	
Project:	Jackson B 17 Flowline 1						
Lab ID:	2105B47-018		С	ollection Date	: 5/2	25/2021 11:40:00 AM	
Client Sample ID: TP6-S Matrix: SO			: SO	OIL			
Analyses		Result	RL	Qual Units	DF	Date Analyzed B	atch ID
EPA METHO	D 300.0: ANIONS					Analys	t: VP
Chloride		ND	60	mg/Kg	20	6/2/2021 6:15:36 PM	60394
EPA METHO	D 8015D MOD: GASOLINE R	ANGE				Analys	t: JMR
Gasoline Rar	nge Organics (GRO)	ND	4.9	mg/Kg	1	5/29/2021 10:22:57 PM	1 60316
Surr: BFB		103	70-130	%Rec	1	5/29/2021 10:22:57 PM	1 60316
EPA METHO	D 8015M/D: DIESEL RANGE	ORGANICS				Analys	t: SB
Diesel Range	e Organics (DRO)	ND	9.9	mg/Kg	1	6/1/2021 1:33:58 PM	60318
Motor Oil Rar	nge Organics (MRO)	ND	49	mg/Kg	1	6/1/2021 1:33:58 PM	60318
Surr: DNO	P	120	70-130	%Rec	1	6/1/2021 1:33:58 PM	60318
EPA METHO	D 8260B: VOLATILES SHOR	T LIST				Analys	t: JMR
Benzene		ND	0.024	mg/Kg	1	5/29/2021 10:22:57 PM	1 60316
Toluene		ND	0.049	mg/Kg	1	5/29/2021 10:22:57 PM	1 60316
Ethylbenzene	e	ND	0.049	mg/Kg	1	5/29/2021 10:22:57 PM	1 60316
Xylenes, Tota	al	ND	0.097	mg/Kg	1	5/29/2021 10:22:57 PM	1 60316
Surr: 1,2-D	Dichloroethane-d4	85.7	70-130	%Rec	1	5/29/2021 10:22:57 PM	60316
Surr: 4-Bro	omofluorobenzene	96.1	70-130	%Rec	1	5/29/2021 10:22:57 PM	1 60316
Surr: Dibro	omofluoromethane	103	70-130	%Rec	1	5/29/2021 10:22:57 PM	60316
Surr: Tolue	ene-d8	97.6	70-130	%Rec	1	5/29/2021 10:22:57 PM	60316

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 S

Value above quantitation range Е

Analyte detected in the associated Method Blank

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

в

Page 18 of 28

.

Date Reported	6/10/2021
Date Reported.	0/10/2021

CLIENT:	GHD			L	ab O	Order: 2105	B47	
Project:	Jackson B 17 Flowline 1							
Lab ID:	2105B47-019		Co	llection Date	: 5/2	25/2021 11:45:00	AM	
Client Sample	e ID: TP6-2	Matrix: SOIL						
Analyses		Result	RL (Qual Units	DF	Date Analyzed	Ba	tch ID
EPA METHO	D 300.0: ANIONS					Ar	alyst:	VP
Chloride		ND	60	mg/Kg	20	6/2/2021 6:28:01	PM	60394
EPA METHO	D 8015D MOD: GASOLINE RA	NGE				Ar	alyst:	JMR
Gasoline Rar	nge Organics (GRO)	ND	5.0	mg/Kg	1	5/29/2021 10:51:2	28 PM	60316
Surr: BFB		102	70-130	%Rec	1	5/29/2021 10:51:2	28 PM	60316
EPA METHO	D 8015M/D: DIESEL RANGE C	RGANICS				Ar	alyst:	SB
Diesel Range	e Organics (DRO)	ND	9.6	mg/Kg	1	6/1/2021 1:43:50	PM	60318
Motor Oil Ra	nge Organics (MRO)	ND	48	mg/Kg	1	6/1/2021 1:43:50	PM	60318
Surr: DNO	P	101	70-130	%Rec	1	6/1/2021 1:43:50	PM	60318
EPA METHO	D 8260B: VOLATILES SHORT	LIST				Ar	alyst:	JMR
Benzene		ND	0.025	mg/Kg	1	5/29/2021 10:51:2	28 PM	60316
Toluene		ND	0.050	mg/Kg	1	5/29/2021 10:51:2	28 PM	60316
Ethylbenzene	e	ND	0.050	mg/Kg	1	5/29/2021 10:51:2	28 PM	60316
Xylenes, Tota	al	ND	0.099	mg/Kg	1	5/29/2021 10:51:2	28 PM	60316
Surr: 1,2-D	Dichloroethane-d4	85.1	70-130	%Rec	1	5/29/2021 10:51:2	28 PM	60316
Surr: 4-Bro	omofluorobenzene	97.4	70-130	%Rec	1	5/29/2021 10:51:2	28 PM	60316
Surr: Dibro	omofluoromethane	100	70-130	%Rec	1	5/29/2021 10:51:2	28 PM	60316
Surr: Tolue	ene-d8	96.6	70-130	%Rec	1	5/29/2021 10:51:2	28 PM	60316

Hall Environmental Analysis Laboratory, Inc.

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 s

Value above quantitation range Е

Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit

в

Page 19 of 28

Analytical Report Lab Order: 2105B47

Date Reported:	6/10/2021

	-	-				-	
CLIENT:	GHD			L	ab O	order: 2105B	47
Project:	Jackson B 17 Flowline 1						
Lab ID:	2105B47-020		Co	llection Date	: 5/2	25/2021 11:50:00 A	М
Client Sample	e ID: TP7-S			Matrix	: SO	OIL	
Analyses		Result	RL	Qual Units	DF	Date Analyzed	Batch ID
EPA METHO	D 300.0: ANIONS					Ana	lyst: VP
Chloride		ND	60	mg/Kg	20	6/2/2021 6:40:25 PI	M 60394
ΕΡΑ ΜΕΤΗΟ	D 8015D MOD: GASOLINE R	ANGE				Ana	lvst: JMR
Gasoline Rar	nge Organics (GRO)	ND	4.9	ma/Ka	1	5/29/2021 11:20:01	PM 60316
Surr: BFB	.gg	102	70-130	%Rec	1	5/29/2021 11:20:01	PM 60316
ΕΡΑ ΜΕΤΗΟ	D 8015M/D: DIESEL RANGE	ORGANICS				Ana	lvst: TOM
Diesel Range	e Organics (DRO)	ND	9.8	ma/Ka	1	6/4/2021 1:07:50 PI	V 60318
Motor Oil Rai	nge Organics (MRO)	ND	49	mg/Kg	1	6/4/2021 1:07:50 PI	M 60318
Surr: DNO	P	83.0	70-130	%Rec	1	6/4/2021 1:07:50 PI	M 60318
EPA METHO	D 8260B: VOLATILES SHOR	T LIST				Ana	lyst: JMR
Benzene		ND	0.024	mg/Kg	1	5/29/2021 11:20:01	PM 60316
Toluene		ND	0.049	mg/Kg	1	5/29/2021 11:20:01	PM 60316
Ethylbenzene	e	ND	0.049	mg/Kg	1	5/29/2021 11:20:01	PM 60316
Xylenes, Tota	al	ND	0.098	mg/Kg	1	5/29/2021 11:20:01	PM 60316
Surr: 1,2-D	Dichloroethane-d4	87.7	70-130	%Rec	1	5/29/2021 11:20:01	PM 60316
Surr: 4-Bro	omofluorobenzene	93.4	70-130	%Rec	1	5/29/2021 11:20:01	PM 60316
Surr: Dibro	omofluoromethane	101	70-130	%Rec	1	5/29/2021 11:20:01	PM 60316
Surr: Tolue	ene-d8	94.5	70-130	%Rec	1	5/29/2021 11:20:01	PM 60316

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 s

Е Value above quantitation range

Analyte detected in the associated Method Blank

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

в

Page 20 of 28

.

Data Dana anta J.	(110/2021

Date Reported.	0/10/202

CLIENT: GHD Project: Jackson B 17 Flowline 1				ab C	Drder: 2105	B47	
Jackson D 17 Hownin							
Lab ID: 2105B47-021		С	ollection Date	: 5/2	25/2021 11:55:00	AM	
Client Sample ID: TP7-2		Matrix: SOIL					
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Bato	ch ID
EPA METHOD 300.0: ANIONS					An	alyst: N	٧P
Chloride	ND	59	mg/Kg	20	6/2/2021 6:52:50	PM (50394
EPA METHOD 8015D MOD: GASOLIN	E RANGE				An	alyst: 🕻	JMR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/29/2021 11:48:3	7 PM 6	30316
Surr: BFB	105	70-130	%Rec	1	5/29/2021 11:48:3	7 PM 6	30316
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANICS				An	alyst: S	SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/2/2021 1:24:14	PM (30318
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	6/2/2021 1:24:14	PM 6	30318
Surr: DNOP	92.2	70-130	%Rec	1	6/2/2021 1:24:14	PM 6	30318
EPA METHOD 8260B: VOLATILES SH	IORT LIST				An	alyst: 🕻	JMR
Benzene	ND	0.025	mg/Kg	1	5/29/2021 11:48:3	7 PM 6	30316
Toluene	ND	0.050	mg/Kg	1	5/29/2021 11:48:3	7 PM 6	30316
Ethylbenzene	ND	0.050	mg/Kg	1	5/29/2021 11:48:3	7 PM 6	50316
Xylenes, Total	ND	0.099	mg/Kg	1	5/29/2021 11:48:3	7 PM 6	30316
Surr: 1,2-Dichloroethane-d4	85.5	70-130	%Rec	1	5/29/2021 11:48:3	7 PM 6	30316
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	5/29/2021 11:48:3	7 PM 6	30316
Surr: Dibromofluoromethane	98.7	70-130	%Rec	1	5/29/2021 11:48:3	7 PM 6	30316

98.0

70-130

%Rec

1

5/29/2021 11:48:37 PM 60316

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:

* Value exceeds Maximum Contaminant Level.D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

E Value above quantitation range

Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

в

Page 21 of 28

Surr: Toluene-d8

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2105B47
	10 Jun 21

10-Jun-21

Client:	GHD				
Project:	Jackson I	B 17 Flowline 1			
Sample ID:	MB-60384	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID:	PBS	Batch ID: 60384	RunNo: 78792		
Prep Date:	6/2/2021	Analysis Date: 6/2/2021	SegNo: 2764168	Units: ma/Ka	
Anchita		Peoult DOI CDK volu			
Chloride		ND 15	e SPK Ref val %REC LowLimit	HighLimit %RPD	RPDLIMIt Quai
Sample ID:	LCS-60384	SampType: LCS	TestCode: EPA Method	300.0: Anions	
Client ID:	LCSS	Batch ID: 60384	RunNo: 78792		
Prep Date:	6/2/2021	Analysis Date: 6/2/2021	SeqNo: 2764169	Units: mg/Kg	
Analyte		Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		14 1.5 15.00	0 94.8 90	110	
Sample ID:	MB-60394	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID:	PBS	Batch ID: 60394	RunNo: 78792		
Prep Date:	6/2/2021	Analysis Date: 6/2/2021	SeqNo: 2764200	Units: mg/Kg	
Analyte		Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		ND 1.5			4
Sample ID:	LCS-60394	SampType: LCS	TestCode: EPA Method	300.0: Anions	
Client ID:	LCSS	Batch ID: 60394	RunNo: 78792		
Prep Date:	6/2/2021	Analysis Date: 6/2/2021	SeqNo: 2764201	Units: mg/Kg	
Analyte		Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride		14 1.5 15.00	0 0 94.4 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	Pa	ge	6	8	of	8	δ
--	----	----	---	---	----	---	---

WO#:	2105B47

10-Jun-21

Client:	GHD										
Project:	Jackson E	3 17 Flowl	ine 1								
Sample ID:	LCS-60311	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	LCSS	Batch	n ID: 60	311	F	RunNo: 78	8762				
Prep Date:	5/28/2021	Analysis D	ate: 5/	29/2021	S	SeqNo: 2	761235	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	64 6 2	10	50.00 5.000	0	128 124	68.9 70	141 130			
Sull. DNOF		0.2		5.000		124	70	130			
Sample ID:	MB-60311	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	n ID: 60	311	F	RunNo: 78	8762				
Prep Date:	5/28/2021	Analysis D	ate: 5/	29/2021	S	SeqNo: 2	761240	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								
Surr DNOP	ge Organics (MRO)	ND 11	50	10.00		107	70	130			
Sample ID:	2105B47-004AMS	SampT	ype: MS	6	Tes	tCode: EF	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	A1-2 14'	Batch	n ID: 60	318	F	RunNo: 78	8780				
Prep Date:	5/28/2021	Analysis D	oate: 6/	1/2021		SeqNo: 27	762478	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	70	9.5	47.35	39.63	63.1	15	184			
Suff: DNOP		5.0		4.735		106	70	130			
Sample ID:	2105B47-004AMS	D SampT	ype: MS	SD .	Tes	tCode: EF	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID:	A1-2 14'	Batch	n ID: 60	318	F	RunNo: 78	8780				
Prep Date:	5/28/2021	Analysis D	ate: 6/	1/2021	S	SeqNo: 2	762479	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	72	9.3	46.64	39.63	68.4	15	184	3.00	23.9	
Surr: DNOP		5.5		4.664		117	70	130	0	0	
Sample ID:	LCS-60318	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch	n ID: 60	318	F	RunNo: 78	8780				
Prep Date:	5/28/2021	Analysis D	ate: 6/	1/2021	S	SeqNo: 2	762508	Units: mg/	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	55	10	50.00	0	110	<u> </u>	1.1.1			
	organics (Drto)	55	10	50.00	0	110	68.9	141			

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

	WO#: 2105B47	
Hall Env	10-Jun-21	
Client:	GHD	
Project:	Jackson B 17 Flowline 1	

Sample ID: MB-60318	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	D: 60	318	R	RunNo: 7	8780				
Prep Date: 5/28/2021	Analysis D	ate: 6/	1/2021	S	SeqNo: 2	762510	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		113	70	130			

- 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 S

- Analyte detected in the associated Method Blank В
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 24 of 28

GHD

Client:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: **2105B47**

10-Jun-21

Project: Jackson	n B 17 Flowl	line 1								
Sample ID: Ics-60310	SampT	SampType: LCS4 TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: BatchQC	Batch ID: 60310			F	RunNo: 7	8775				
Prep Date: 5/27/2021	Analysis D	Date: 5/	28/2021	S	SeqNo: 2	761812	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	109	80	120			
Toluene	0.98	0.050	1.000	0	97.6	80	120			
Ethylbenzene	1.0	0.050	1.000	0	99.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.3	80	120			
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.5	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.1	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130			
Surr: Toluene-d8	0.49		0.5000		97.6	70	130			
Sample ID: Ics-60316	SampT	ype: LC	S	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: LCSS	Batcl	h ID: 60	316	F	RunNo: 7	8775				
Prep Date: 5/27/2021	Analysis D	Date: 5/	29/2021	S	SeqNo: 2	761813	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	70	130			
Toluene	0.97	0.050	1.000	0	96.7	70	130			
Surr: 1,2-Dichloroethane-d4	0.40		0.5000		80.7	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.3	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		98.0	70	130			
Surr: Toluene-d8	0.47		0.5000		93.0	70	130			
Sample ID: mb-60310	SampT	Гуре: МЕ	BLK	TestCode: EPA Method 8260B: Volatiles Short List				List		
Client ID: PBS	Batcl	h ID: 60	310	RunNo: 78775						
Prep Date: 5/27/2021	Analysis D	Date: 5/	28/2021	S	SeqNo: 2	761814	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: 1,2-Dichloroethane-d4	0.44		0.5000		88.8	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.0	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		101	70	130			
Surr: Toluene-d8	0.48		0.5000		96.3	70	130			
Sample ID: mb-60316	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batcl	h ID: 60	316	F	RunNo: 7	8775				
Prep Date: 5/27/2021	Analysis D	Date: 5/	29/2021	S	SeqNo: 2	761815	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

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

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 25 of 28

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2105B47
	10-Jun-21

Client:	GHD
Project:	Jackson B 17 Flowline 1

Sample ID: mb-60316 SampType: MBLK TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: PBS	Batc	h ID: 603	316	F	RunNo: 7	8775				
Prep Date: 5/27/2021	Analysis [Date: 5/ 2	29/2021	5	SeqNo: 2	761815	Units: mg/k	٢g		
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: 1,2-Dichloroethane-d4	0.43		0.5000		86.3	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.3	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		105	70	130			
Surr: Toluene-d8	0.48		0.5000		95.4	70	130			
Sample ID: 2105b47-005ams	Samp	Гуре: МS	54	Tes	tCode: E	PA Method	8260B: Vola	tiles Short	List	
Client ID: A1-3 6'	Batc	h ID: 603	316	F	RunNo: 7	8775				
Prep Date: 5/27/2021	Analysis [Date: 5/ 2	29/2021	S	SeqNo: 2	761840	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.024	0.9775	0	112	73.5	138			
Toluene	1.1	0.049	0.9775	0	111	83	131			
Ethylbenzene	1.1	0.049	0.9775	0.03682	109	84.9	132			
Xylenes, Total	3.4	0.098	2.933	0.1351	112	79.6	144			
Surr: 1,2-Dichloroethane-d4	0.41		0.4888		84.6	70	130			
Surr: 4-Bromofluorobenzene	0.44		0.4888		90.5	70	130			
Surr: Dibromofluoromethane	0.49		0.4888		100	70	130			
Surr: Toluene-d8	0.47		0.4888		96.2	70	130			
Sample ID: 2105b47-005ams		Type MS	SD4	Tes	tCode: E	PA Method	8260B: Vola	tiles Short	l ist	
Client ID: A1-3 6'	Batc	h ID: 603	316	. 03 F	RunNo: 7	8775				
Prep Date: 5/27/2021	Analysis [Date: 5/2	29/2021	S	SeqNo: 2	761841	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.025	0.9891	0	117	73.5	138	5.94	20	
Toluene	1.1	0.049	0.9891	0	109	83	131	0.718	20	
Ethylbenzene	1.1	0.049	0.9891	0.03682	110	84.9	132	2.16	20	
Xylenes, Total	3.3	0.099	2.967	0.1351	105	79.6	144	5.00	20	
Surr: 1,2-Dichloroethane-d4	0.41		0.4946		83.8	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.46		0.4946		92.5	70	130	0	0	
Surr: Dibromofluoromethane	0.50		0.4946		102	70	130	0	0	
Surr: Toluene-d8	0.47		0.4946		94.6	70	130	0	0	

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 S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Page	72	of	88
------	----	----	----

WO#:	2105B47

10-Jun-21

Client:	GHD												
Project:	Jackson E	3 17 Flowlin	e 1										
Sample ID:	lcs-60310	-60310 SampType: LCS					TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID:	LCSS	Batch ID: 60310			RunNo: 78775								
Prep Date:	5/27/2021	Analysis Date: 5/28/2021			SeqNo: 2761980			Units: mg/Kg					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang Surr: BFB	je Organics (GRO)	23 500	5.0	25.00 500.0	0	92.2 101	70 70	130 130					
Sample ID:	lcs-60316	SampTy	be: LC	s	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID:	LCSS	Batch I	D: 60	316	F	RunNo: 7	8775						
Prep Date:	5/27/2021	Analysis Da	ie: 5/	/29/2021	SeqNo: 2761981			Units: mg/Kg					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang Surr: BFB	e Organics (GRO)	22 500	5.0	25.00 500.0	0	86.4 101	70 70	130 130					
Sample ID:	mb-60310												
Client ID:	PBS	Batch	D. 60	310	F	RunNo: 7	8775	oorop moa.	Gasonne i	Range			
Prep Date:	5/27/2021	Analysis Da	te: 5/	/28/2021	S	SeqNo: 2	761983	Units: mg/k	٢g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang	e Organics (GRO)	ND	5.0										
Surr: BFB		520		500.0		103	70	130					
Sample ID:	TestCode: EPA Method 8015D Mod: Gasoline Range												
Client ID:	PBS	Batch ID: 60316			RunNo: 78775								
Prep Date:	5/27/2021	Analysis Da	ie: 5/	/29/2021	S	SeqNo: 2	761984	Units: mg/k	٢g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang	e Organics (GRO)	ND	5.0	500.0		00.6	70	120					
Sull. BI B		500		500.0		99.0	70	130			1		
Sample ID:	2105b47-004ams	SampTy	be: M	S	Tes	tCode: E	PA Method	8015D Mod:	Gasoline I	Range			
Client ID:	A1-2 14'	Batch ID: 60316			RunNo: 78775								
Prep Date:	5/27/2021	Analysis Da	ie: 5	/29/2021	c c	SeqNo: 2	762003	Units: mg/k	٢g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Rang Surr: BFB	je Organics (GRO)	23 490	4.9	24.56 491.2	0	91.8 100	64.4 70	124 130					
Sample ID: 2105b47-004amsd SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range													
Client ID:	A1-2 14'	Batch I	D: 60	316	F	RunNo: 7	8775						
Prep Date:	5/27/2021	Analysis Da	te: 5/	/29/2021	S	SeqNo: 2	762004	Units: mg/k	٢g				
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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 27 of 28
Page 73 of 88

Client: GHD Project: Jackson B 17 Flowline 1 Sample ID: 2105b47-004amsd SampType: MSD TestCode: EPA Method 8015D Mod: Gasoline Range Client ID: A1-2 14' Batch ID: 60316 RunNo: 78775 Prep Date: 5/27/2021 Analysis Date: 5/29/2021 SeqNo: 2762004 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	4.9	24.53	0	98.3	64.4	124	6.72	20	
Surr: BFB	510		490.7		105	70	130	0	0	

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 28 of 28

HALL ENVIRC ANALY LABOR	На TE И	ill Environme EL: 505-345-3 Vebsite: clieni	ntal Analy 490 Albuquer 8975 FAX 85.hallenvi	vsis Lab 01 Haw que, NM : 505-34 ironmen	oratory kins NE 1 87109 15-4107 tal.com	Sample Log-In Check List			
Client Name: 0	GHD	Work	Order Num	ber: 210	5B47			RcptNo: 1	
Received By:	Juan Rojas	5/27/20	021 7:40:00	АМ		Gun	nay		
Completed By: Reviewed By:	Cheyenne Cason	5/27/20	021 8:35:30	AM		Cher	L		
Chain of Custo	ody								
1. Is Chain of Cus	tody complete?			Yes	\checkmark	N	•	Not Present	
2. How was the sa	ample delivered?			Cou	rier				
Log In 3. Was an attempt	made to cool the same	les?		Voc		N			
				103	Ċ,				
4. Were all sample	s received at a tempera	ture of >0° C	to 6.0°C	Yes		No		NA 🗌	
5. Sample(s) in pro	oper container(s)?			Yes	~	No			
6. Sufficient sampl	e volume for indicated te	est(s)?		Yes	V	No			
7. Are samples (ex	cept VOA and ONG) pro	operly preserve	ed?	Yes		No			
8. Was preservativ	e added to bottles?			Yes		No		NA 🔲	
9. Received at leas	t 1 vial with headspace	<1/4" for AQ \	/OA?	Yes		No		NA 🔽	
10. Were any samp	le containers received b	roken?		Yes		No		# of preserved	
11.Does paperwork (Note discrepan	match bottle labels?)		Yes	~	No		bottles checked for pH: (<2 or >12 unless noted)	
12. Are matrices cor	rectly identified on Chai	n of Custody?		Yes		No		Adjusted?	
13. Is it clear what a	nalyses were requested	?		Yes		No			
14. Were all holding (If no, notify cust	times able to be met? omer for authorization.)			Yes		No		Checked by: SPA 5.27.2	
Special Handlin	g (if applicable)								
15. Was client notifi	ed of all discrepancies v	vith this order?	>	Yes		No		NA 🗹	
Person No	otified:		Date:	r					
By Whom			Via:	□ eMa	ail 🗌	Phone [Fax	In Person	
Regarding	: 1						-		
Client Inst	ructions:								
16. Additional rema	irks:								
17. Cooler Informa	ation								
Cooler No	Temp °C Condition	Seal Intact	Seal No	Seal D	ate	Signed	Ву		
1 (0.4 Good								
~ (6000								

Page 1 of 1

Received	by O	C D: 9)/1/2	021	10:26:40 A	<i>M</i> (N -	IO Y) səlddu8 riA						1								Page	75 of
Leceived Seceived Seceived Seceived C Seceived C Seceived C Seceived C Seceived C Seceived C Seceived C Seceived C Seceived C Seceived C Seceived C Seceived C Seceived Seceiv	LYSIS LABORATORY	- Abbucuerus NM 87109	Fax 505-345-4107	Analysis Request	0:26:40 A	M (N. 28087 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	sls seb (0N, (0N,	PCRA 8 Mer Prions (F,Cl 8081 Pestici 8260B (VOA 8270 (Semi- 8270 (Semi-	2											>	1 Zuch. comine @ CHD. com others 1:5 hel about	Page	to Ello Chase Sottle of
ALL	NA	s NE	-3975		(SM	8520 SI		PAH's (8310													Here		211
I	A	awkin	5-345			(1.8	141	odieM) H9T			-	-		-			-				65c		-
		901 H	el. 50	-	O/MRO	и о	ਬ9)	RPH 8015B	8	***								_	-	A	S: Plan		32
		4	F		(Vino 262)		3E +		0											0	emark	l	0
	T		1		-120007			R III	×		1										ž –		0
0	2 00	1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,			117	on L	6-0.7-0.4	0.7-0.770. HEAL NO. 21051347	00	200	003	Cert	CCS	COC	0207	008	Ceed	010	110 240	012	S 24 64 1200	Date Time	-56 12/KUS
Time:	d 🗆 Rush	DHIN P		278312	ager: Tou Lev Br.L. 11	Lel Can	iperature: m.	Preservative Type														c) / 1	Trouman.
Turn-Around	Project Nam	Lin	Project #:	11	Project Man	Sampler:	Sample Terr	Container Type and #	Jer	-					-	_				\wedge	Received by:	Received by:	Y
cord			ic UN Prai		HD. courses, cau			equest ID	16'	20'	õ	141	6.	õõ	10'	5			2	10	-12ho	11	
stody Re			4 108 Alec	1-4218,	HLE C CUTO	-		Sample R	A1-1	A1-1	A1-2	A1-2	A1-3	A1-3	A1-3	- 10L	5-19T	7P2-5	-297	TP3-5	by:	by:	0
-of-Cu			in st Sw	75 (-20	Clusters.	□ Other		Matrix	ZU.		_	_	_						1	Y	Relinquished	Relinquished	WW
hain	5	Addres	LO No	# CS	r Fax#: Package: dard	tation AP	(Type)	Time	chrs	0935	1000	010	0201	lors	1030	shol	1050	300	1105	1110	Time: 1200	Time:	00%
Client:		Mailing	324.1	Phone #	email ol QA/QC F			Date	0225250	1	-						-			>	Date:	Date:	12/92/0

ACUEI	ENTAL	AN OKY	σ	2			()~)<	P091		Air Bubbles (5191D. com	1 uge /0
25	MN		411 A 8710	4107		ŀ	002	<u>[] ()</u>	10V	-im92) 0728	2	-						-	>		6	1 25
20			P NN	345-	uest				(AOV) 80928							1				- dimile	Sho
	IT S			505	Red		PCB's	/ 8082	səp	8081 Pesticio											cc	2 1
		U ioni	in in in	Fax	Ilysis		(*OS'*Od	"'NO ^s	ON	Noine (F,CI											200	1 1-CI
		halla		22	Ane		(SWI	S 0/78	310 216	0128) 2 HAY	-	-			-	-	-				- in	4
	N N		N SN SN	5-397		F		(1.4)	09 P	EDB (Method		-			-	-		-		++	- in	110
1		5	awki	05-34		L		(1.8	141	TPH (Method						-		1			euse	2 02
	1		901 H	el. 50		(4	SO / MRG	O / DB	89)	8015B	2	-	-			_	-	-	9		-12-	0/2
			40	: H-		()	(Gas only	HGT ·	9E +	BTEX + MTE	14										narks	7
-	-	1		-		1	<u>\$(TS08)</u> a	TMB'	3E +	BTEX+MTB	2	-			_			~	>		Rer	
6	ush 5-Du	P	# 17 Philling #		312		el	Indes NO	1 10-0.2 = OUV	ive 6.9.0.0.2 = 0.7 HEAL NO. 2105B47	" Ø13	014	. 015	016	017	018	C19	020	021		Date Time	Date Time
I Time:		ë	SI Na		11218		ger huske	Tul Co	perature: /	Preservati Type												A MAN
Turn-Around	A Standard	Project Nam	Juch	Project #:		Decioat Mac	Project Man	Sampler: Son Ice:	Sample Tem	Container Type and #	Jer	-							A		Received by:	Received by:
istody Record				108 Arbeile NURBENO	-4218	11 2 110	weeker ● CHID. CON Ale © GHID. count - Evel & GHD. count □ Level 4 (Full Validation)			Sample Request ID	TP3-2	S-hcll	2-4-2	TPS-S	2-201	TPQ-S	776.2	TP7-S	2-44		iby inthe	Iby: A C
I-of-Cu	Q		S:	St Swit	(SC) 371	1 1 0	Cheses S. Cheses S. Tom. Low	□ Othe		Matrix	S	-							>		Relinquishe	Relinquished
hain	6		Addres	Main	#: (S	r Fav#.	Package: dard	itation AP	(Type)	Time	INS	1120	1125	1130	1135	07/1	1145	1150	1155		Time:	Time:
0	Client:		Mailing	324 W	Phone	olieme				Date	05252021	-							7		Date:	Date: Date:



August 04, 2021

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

RE: Jackson B 17 Flowline Area 1

OrderNo.: 2107C48

Hall Environmental Analysis Laboratory

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

Website: clients.hallenvironmental.com

4901 Hawkins NE

Albuquerque, NM 87109

Dear Tom Larson:

Hall Environmental Analysis Laboratory received 3 sample(s) on 7/24/2021 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

CLIENT: GHD Midland

i.

Analytical Report Lab Order 2107C48

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 8/4/2021 Client Sample ID: Al-1 25'

Project:	Jackson B 17 Flowline Are	ea 1	(Collection Dat	e: 7/2	22/2021 2:10:00 PM	
Lab ID:	2107C48-001	Matrix: SOIL		Received Dat	e: 7/2	24/2021 7:48:00 AM	
Analyse	S	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analyst	: VP
Chloride	e	180	60	mg/Kg	20	7/30/2021 4:08:09 AM	61662
EPA ME	THOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst	: SB
Diesel F	Range Organics (DRO)	24	9.8	mg/Kg	1	7/27/2021 4:49:48 PM	61572
Motor C	Dil Range Organics (MRO)	ND	49	mg/Kg	1	7/27/2021 4:49:48 PM	61572
Surr:	DNOP	123	70-130	%Rec	1	7/27/2021 4:49:48 PM	61572
EPA ME	THOD 8015D: GASOLINE R	ANGE				Analyst	RAA
Gasolin	e Range Organics (GRO)	ND	4.9	mg/Kg	1	7/29/2021 10:55:09 AM	61570
Surr:	BFB	107	70-130	%Rec	1	7/29/2021 10:55:09 AM	61570
EPA ME	THOD 8021B: VOLATILES					Analyst	RAA
Benzen	e	ND	0.025	mg/Kg	1	7/29/2021 10:55:09 AN	61570
Toluene	9	ND	0.049	mg/Kg	1	7/29/2021 10:55:09 AM	61570
Ethylbe	nzene	ND	0.049	mg/Kg	1	7/29/2021 10:55:09 AM	61570
Xylenes	s, Total	ND	0.098	mg/Kg	1	7/29/2021 10:55:09 AM	61570
Surr:	4-Bromofluorobenzene	101	70-130	%Rec	1	7/29/2021 10:55:09 AM	61570

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 S

- в Analyte detected in the associated Method Blank
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 1 of 7

CLIENT: GHD Midland

Project:

Lab ID:

Analytical Report Lab Order 2107C48

Hall Environmental Analysis Laboratory, Inc.

Jackson B 17 Flowline Area 1

Date Reported: 8/4/2021

Client Sample ID: Al-1 30' Collection Date: 7/22/2021 2:20:00 PM Received Date: 7/24/2021 7:48:00 AM

Lab ID: 2107C48-002	Matrix: SOIL		Received Date: 7/24/2021 7:48:00 AM								
Analyses	Result	RL	Qual Unit	s DF	Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analyst	: VP					
Chloride	84	61	mg/ł	Kg 20	7/30/2021 4:20:33 AM	61662					
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst	SB					
Diesel Range Organics (DRO)	ND	9.4	mg/ł	(g 1	7/27/2021 4:59:36 PM	61572					
Motor Oil Range Organics (MRO)	ND	47	mg/ł	(g 1	7/27/2021 4:59:36 PM	61572					
Surr: DNOP	109	70-130	%Re	c 1	7/27/2021 4:59:36 PM	61572					
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	RAA					
Gasoline Range Organics (GRO)	ND	4.7	mg/ł	(g 1	7/29/2021 11:18:40 AM	61570					

ND	4.7	iiig/rtg		7/29/2021 11:16:40 Alvi	61570
108	70-130	%Rec	1	7/29/2021 11:18:40 AM	61570
				Analyst:	RAA
ND	0.024	mg/Kg	1	7/29/2021 11:18:40 AM	61570
ND	0.047	mg/Kg	1	7/29/2021 11:18:40 AM	61570
ND	0.047	mg/Kg	1	7/29/2021 11:18:40 AM	61570
ND	0.095	mg/Kg	1	7/29/2021 11:18:40 AM	61570
101	70-130	%Rec	1	7/29/2021 11:18:40 AM	61570
	ND 108 ND ND ND 101	ND 0.024 ND 0.047 ND 0.047 ND 0.047 ND 0.095 101 70-130	ND 0.024 mg/Kg ND 0.024 mg/Kg ND 0.047 mg/Kg ND 0.047 mg/Kg ND 0.047 mg/Kg ND 0.047 mg/Kg ND 0.095 mg/Kg 101 70-130 %Rec	ND 0.024 mg/Kg 1 ND 0.024 mg/Kg 1 ND 0.047 mg/Kg 1 ND 0.047 mg/Kg 1 ND 0.047 mg/Kg 1 ND 0.095 mg/Kg 1 ND 0.095 mg/Kg 1 101 70-130 %Rec 1	ND 0.024 mg/Kg 1 7/29/2021 11:18:40 AM ND 0.024 mg/Kg 1 7/29/2021 11:18:40 AM ND 0.024 mg/Kg 1 7/29/2021 11:18:40 AM ND 0.047 mg/Kg 1 7/29/2021 11:18:40 AM ND 0.047 mg/Kg 1 7/29/2021 11:18:40 AM ND 0.047 mg/Kg 1 7/29/2021 11:18:40 AM ND 0.095 mg/Kg 1 7/29/2021 11:18:40 AM 101 70-130 %Rec 1 7/29/2021 11:18:40 AM

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 S

- Analyte detected in the associated Method Blank в
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 2 of 7

CLIENT: GHD Midland

2107C48-003

Project:

Lab ID:

Analytical Report Lab Order 2107C48

Hall Environmental Analysis Laboratory, Inc.

Jackson B 17 Flowline Area 1

Date Reported: 8/4/2021

Client Sample ID: Al-1 35' Collection Date: 7/22/2021 2:40:00 PM Received Date: 7/24/2021 7:48:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	7/30/2021 4:32:58 AM	61662
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	7/27/2021 5:09:22 PM	61572
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	7/27/2021 5:09:22 PM	61572
Surr: DNOP	122	70-130	%Rec	1	7/27/2021 5:09:22 PM	61572
EPA METHOD 8015D: GASOLINE RANGE					Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/29/2021 11:42:09 AM	61570
Surr: BFB	107	70-130	%Rec	1	7/29/2021 11:42:09 AM	61570
EPA METHOD 8021B: VOLATILES					Analyst	: RAA
Benzene	ND	0.025	mg/Kg	1	7/29/2021 11:42:09 AM	61570
Toluene	ND	0.049	mg/Kg	1	7/29/2021 11:42:09 AM	61570
Ethylbenzene	ND	0.049	mg/Kg	1	7/29/2021 11:42:09 AM	61570
Xylenes, Total	ND	0.099	mg/Kg	1	7/29/2021 11:42:09 AM	61570
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	7/29/2021 11:42:09 AM	61570

Matrix: SOIL

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

Qualifiers:

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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 7

Client: Project:	GHI Jack	D Midland son B 17 Flowl	ine Are	a 1							
Sample ID:	MB-61662	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	300.0: Anion	S		
Client ID:	PBS	Batch	n ID: 61	662	F	RunNo: 8	0187				
Prep Date:	7/29/2021	Analysis D	ate: 7/	30/2021	S	SeqNo: 28	823381	Units: mg/#	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-61662	SampT	ype: LC	S	Tes	tCode: EF	PA Method	300.0: Anion	s		
Client ID:	LCSS	Batch	n ID: 61	662	F	RunNo: 8	0187				
Prep Date:	7/29/2021	Analysis D	ate: 7/	30/2021	5	SeqNo: 28	823382	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	96.6	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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 7

2107C48

04-Aug-21

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Page	<i>82</i>	of	88
------	-----------	----	----

WO#:	2107C48
	04-Aug-21

Client: GHD M	Aidland		
Project: Jackson	n B 17 Flowline Area 1		
Sample ID: MB-61572	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 61572	RunNo: 80098	
Prep Date: 7/26/2021	Analysis Date: 7/27/2021	SegNo: 2820635	Units: ma/Ka
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Motor Oil Range Organics (MRO)	ND 50	100 70	400
Suff: DNOP	12 10.00	123 70	130
Sample ID: LCS-61572	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 61572	RunNo: 80098	
Prep Date: 7/26/2021	Analysis Date: 7/27/2021	SeqNo: 2820636	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	53 10 50.00	0 106 68.9	141
Surr: DNOP	4.9 5.000	97.3 70	130
Sample ID: MB-61656	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 61656	RunNo: 80208	
Prep Date: 7/29/2021	Analysis Date: 7/30/2021	SeqNo: 2825038	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	10 10.00	102 70	130
Sample ID: LCS-61656	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 61656	RunNo: 80208	
Prep Date: 7/29/2021	Analysis Date: 7/30/2021	SeqNo: 2825039	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	5.0 5.000	100 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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 7

1

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: GHD I Project: Jackso	Midland n B 17 Flowl	ine Are	a 1							
Sample ID: Ics-61570	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: LCSS	Batch	n ID: 61	570	F	RunNo: 8	0156				
Prep Date: 7/26/2021	Analysis D	ate: 7/	28/2021	S	SeqNo: 2	822398	Units: mg/k	٢g		
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	78.6	131			
Surr: BFB	1200		1000		120	70	130			
Sample ID: mb-61570	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gasc	line Rang	e	
Client ID: PBS	Batch	n ID: 61	570	F	RunNo: 8	0156				
Prep Date: 7/26/2021	Analysis D	ate: 7/	29/2021	5	SeqNo: 2	822400	Units: mg/#	٤g		
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		106	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

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 7

2107C48

04-Aug-21

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

1.0

1.000

Page	84	of	88
------	----	----	----

WO#:	210	7C48

04-Aug-21

		-		Q .						0
Client: GHI Project: Jack	D Midland son B 17 Flow	line Are	a 1							
Sample ID: LCS-61570	Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Bato	h ID: 61	570	F	RunNo: 8	0156				
Prep Date: 7/26/2021	Analysis	Date: 7/	28/2021	S	SeqNo: 2	822450	Units: mg/k	٢g		
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	0.91	0.050	1.000	0	91.1	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	91.7	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			
Sample ID: mb-61570	Samp	Туре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Bato	h ID: 61	570	F	RunNo: 8	0156				
Prep Date: 7/26/2021	Analysis	Date: 7/	29/2021	S	SeqNo: 2	822452	Units: mg/k	٢g		
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								

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

B Analyte detected in the associated Method Blank

101

70

130

- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 7

ENVIRONMENTAL ANALYSIS LABORATORY	TEL: 50 Website	49 Albuquer 5-345-3975 FAX 2: clients.hallenv	ol Hawki que, NM 505-345 ronmente	ratory ins NE 87109 5-4107 al.com	Sar	mple Log-In Check List
Client Name: GHD Midland	Work Orde	er Number: 210	7C48			RcptNo: 1
Received By: Cheyenne Ca	ason 7/24/2021 7:	48:00 AM		Charl	1	
Completed By: Cheyenne Ca	ason 7/24/2021 8:	16:30 AM		1 hered	1	
	7. 24.21			Lance		
Chain of Custody						
1. Is Chain of Custody complete	?	Yes	V	No		Not Present
2. How was the sample delivere	d?	Cou	rier			
1						
3 Was an attempt made to cool	the complex?		1.1			
or was an attempt made to cool	the samples?	Yes	V	INO	لم	
4. Were all samples received at	a temperature of >0° C to 6.0)°C Yes		No		NA 🗌
5. Sample(s) in proper container	(s)?	Yes		No		
6. Sufficient sample volume for in	ndicated test(s)?	Yes		No	Ē	
7. Are samples (except VOA and	ONG) properly preserved?	Yes		No		
8. Was preservative added to bo	ttles?	Yes		No	~	NA 🗌
9. Received at least 1 vial with he	eadspace <1/4" for AO VOA?	Ves		No		
10. Were any sample containers i	received broken?	Voc		No		
		Tes	-	NO	•	# of preserved
11. Does paperwork match bottle	abels?	Yes	V	No		for pH:
(Note discrepancies on chain o	of custody)					(<2 or >12 unless noted)
2. Are matrices correctly identifie	d on Chain of Custody?	Yes	V	No		Adjusted?
3. Is it clear what analyses were	requested?	Yes		No		
(If no, notify customer for auth	pe met? prization.)	Yes		No		Checked by Cu 1/24/4
Special Handling (if applic	able)					
15. Was client notified of all discre	epancies with this order?	Yes		No		NA 🔽
Person Notified:		Date:				
By Whom:		Via: 🗍 eMi	ail 🗆 F	hone	Fax	In Person
Regarding:				<u> </u>		
Client Instructions:						
16. Additional remarks:						
17. <u>Cooler Information</u> Cooler No Temp °C C	Condition Seal Intact Sea	I No Seal D	ate	Signed B	У	
1 2.4 Go	od					

.

Page 1 of 1

-of-Custody Record	l urn-Around Time:				1-10-1		ce
	Destandard 🗆 Rush S-Je		HALL	VSTS	IRONMI	ATOPV	
	roject Name:)			y 0
	Techer R#N Church da #1	1004 FLOW	www.halle	environm	iental.com		CD:
Artesia NM 88210	Project #:			anbndik	rque, NM 87109		<i>9/1/</i>
218	C1230011	-000-101	345-39/5 An	Fax 5	05-345-4107		202
<u>sell@ghd.com</u>	roject Manager:	((veduest		1 16
E Level 4 (Full Validation)	secky Haskell om Larson	5CB,2 0 / WB 2 (8054)	SWIS	05 '*0	tnesdA OOS):26:40
pliance	tampler: Zach Comino	TMB'	8220	1. ²⁰ N	(171 (171 tuəsə.		4 <i>M</i> —
	of Coolers: 1	20' 962'9 962'9 960 960	no or	181	(Pri (Pri N	-	
0	:ooler Temp(including cF): 2, 6-0.2 ± 2.4	MTB sticic sticic	Meta Meta	(AC	iform		
Sample Name	ype and # Type	DB (W9 081 66 64:801	AHs by CKA 8	0A) 097	S) 015 Distriction	0	
AI-1 25'			ы Ы Ы	28			T
A1-1 30'	U.a.) V	2 -			X		T
41-1 35'	1 (103	1					T
		,		+	8		T
				+			T
							T
							T
							T
							TT
							T
V.	adirad by: ///						T
Cerning PUL Re-	Cenved by: Via: Date Time	Remarks: Ple Tom.La Matthew.La	sase email: (rson@ghd.c aughlin@gho lis	Chase Som; Zac com; Zac d.com: A	Settle@eogreso th.Comino@gho Jong with Beck ve.	urces.com; I.com / Haskell	Pa
	2 COM 7/24/21 0748		Direct Bill I	O EOG	chase Settle		ge

Released to Imaging: 1/21/2022 2:52:24 PM

Received by OCD: 9/1/2021 10:26:40 AM Form C-141 State of New Mexico

Page 5

Oil Conservation Division

Incident ID	nAPP2110638995
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: 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 \square 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: The Sittle Date: 08/31/2021 email: Chase_Settle@eogresources.com Telephone: 575-748-1471 **OCD Only** Date: 1/21/2022 Robert Hamlet Received by: Approved X Approved with Attached Conditions of Approval Denied Deferral Approved Robert Hamlet Date: 1/21/2022 Signature:

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: C	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	45806
Ŧ	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All contaminated soil must be reclaimed/remediated and removed down to 4 feet below surface until it meets strictest closure criteria. In the pasture area, 4 feet below the ground surface, floor sample soil contamination limits revert back to Table 1 standards of 2,500 mg/kg (GRO+DRO+MRO) or 1,000 mg/kg (GRO+DRO) and chlorides to 20,000 mg/kg. Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Please collect confirmation samples, representing no more than 200 ft2.	1/21/2022

CONDITIONS

Action 45806